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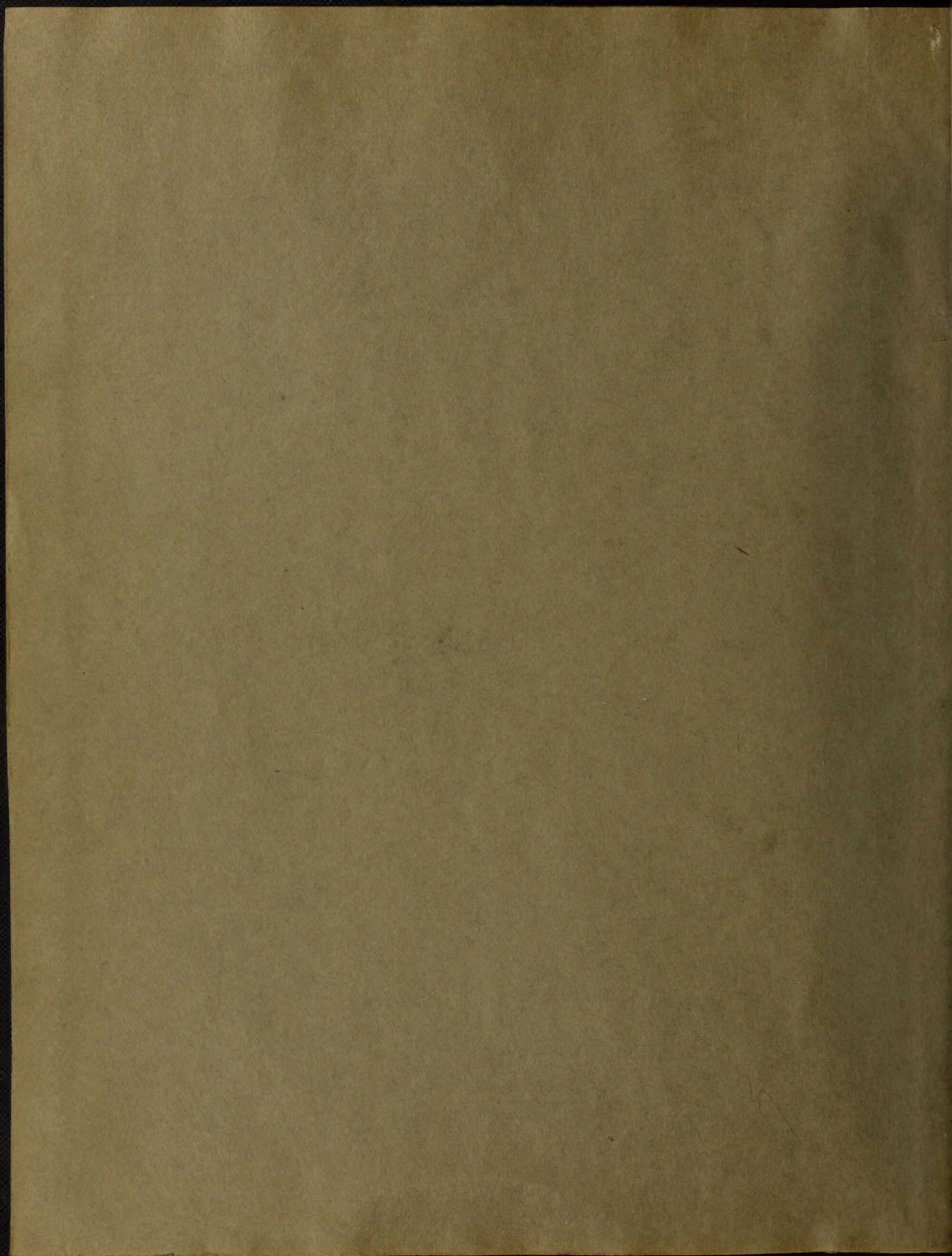
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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII.

JANUARY, 1927.

No. 1

GENERAL SUMMARY.

This was nearly a normal January, there being a slight deficiency in both temperature and precipitation. The snowfall was considerably less than usual at most places, and generally melted rapidly so that the fields were bare of snow covering the greater portion of the month. Cold periods centered about the 16th and 27th respectively, with a warm interval between those dates when the snow covering melted away and most of the frost was thawed out of the top soil. During that time there were numerous unfavorable reports regarding the probable effects on winter wheat, but at the end of the month our observers were mostly agreed that the damage was unimportant. There were practically no field operations reported during the month. Corn husking and hauling of the fodder preceded in a small way. The event of chief importance during the month was the high waters in the streams of the Ohio watershed, from the 20th to the 24th inclusive. The Allegheny river rose above the flood stage from Parkers Landing southward, and the Monongahela from Lock No. 4 northward. The Youghiogheny, Kishkimitas, and Beaver rivers became bank full, but no flood stages were reported. The Ohio river at Pittsburgh rose 4.7 feet above the flood stage. At Wheeling the river rose to a stage of 41.7 feet, the flood stage being 36.0 feet. The rise in the streams was comparatively slow and the stages were accurately forecast. Ample time elapsed for spreading the warnings and in consequence the damage was not heavy, being estimated at \$10,000 for the entire Pittsburgh river district. There were no severe or damaging storms during the month.

TEMPERATURE.

The mean temperature for the State, as deduced from the reports of 83 stations, was 27.4°, or 0.4° less than the January normal. The highest mean was 32.6° at Philadelphia Weather Bureau and Philadelphia-Germantown, and the lowest was 19.9°, at West Bingham. The highest temperature recorded during the month was 61°, at Uniontown on the 21st, and also at Hyndman on the 30th, while the lowest was 24° below zero, at West Bingham on the 27th. The greatest daily range of temperature was 52°, at West Bingham on the 27th.

PRECIPITATION.

The average precipitation, from rain and melted snow, for the State, as determined from the reports of 134 stations was 2.90 inches: a deficiency of 0.43 inch as compared with the normal for the month. The greatest amount recorded at any station was 8.28 inches, at Derry, and the least, 0.76 inch, was reported from Lawrenceville. The greatest amount recorded in any 24 consecutive hours was 3.73 inches at Derry on the 22d. The average snowfall for the State was 5.7 inches, or slightly more than half the January normal, 11.0 inches. The greatest monthly snowfall was 19.5 inches, at Corry, while the greatest 24-hour fall reported was 10.0 inches, at Paupack, on the 15th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	Highest	Direction
Erie.....	63.4	295.3	21	78	73	72	10,811	14.5	48	sw.
Harrisburg.....	122.7	300.9	41	76	67	64	5,640	7.6	44	nw.
Philadelphia.....	114.3	300.9	38	75	71	74	7,621	10.2	38	n.
Pittsburgh.....	67.3	298.2	23	84	78	79	9,136	12.3	40	nw.
Reading.....	117.3	300.9	39	80	71	73	5,382	7.2	28	n.
Scranton.....	104.2	298.2	35	86	78	82	5,217	7.0	26	n.

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15	13
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9	10
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16	14
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15	12
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15	12
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14	12
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13	10
1895.....	24.2	68	-17	4.17	6.36	1.83	7	10	14	13
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14	6
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15	10
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17	13
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11	10
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14	10
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15	11
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14	9
1903.....	26.9	68	-13	3.31	6.09	1.49	6	8	17	11
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15	12
1905.....	28.8	69	-21	3.70	7.55	1.72	8	8	15	12
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13	11
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18	15
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11	9
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16	13
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19	14
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18	13
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16	12
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17	11
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15	13
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14	12
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12	13
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13	12
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9	8
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14	10
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12	10
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10	8
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19	14
1924.....	28.1	65	-13	4.34	6.29	1.70	11	8	12	8
1925.....	25.2	55	-29	3.49	6.68	1.07	11	7	13	10
1926.....	27.8	66	-19	2.80	4.85	1.12	9	9	13	11
1927.....	27.4	61	-24	2.90	8.28	0.76	9	6	16	13

RIVER CONDITIONS

Stations	Rivers	Mean stage		Date	Lowest stage		Date	Flood stage
		Mean	Highest		Mean	Highest		
Port Jervis.....	Delaware	4.4	8.3	22	2.9	9	18	
Phillipsburg.....	Delaware							22
Mauch Chunk.....	Lehigh	2.4	3.8	8	0.4	23	12	
Wilkes-Barre.....	Susquehanna	5.3	12.8	23	2.6	18	20	
Williamsport.....	Susquehanna	5.8	18.7	22	1.2	10	20	
Harrisburg.....	Susquehanna							17
Freepot.....	Allegheny	8.5	23.1	23	3.5	8	22	
West Newton.....	Youghiogheny	4.4	12.7	22	1.5	9	20	
Lock No. 4.....	Monongahela	15.3	32.1	22	14.3	10	31	
Pittsburgh.....	Ohio	15.1	29.7	23	11.0	17	26	
Beaver Dam.....	Ohio	14.0	37.5	23	6.9	19	30	

Climatological Data for January, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	15	27.8	.....	45	29	0	27	32	2.56	-1.09	0.50	5.1	14	11	14	6	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	40	25.8	-1.5	54	30	-3	16	31	3.00	+0.50	0.75	7.0	15	12	2	17	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	43	29.0	-0.9	47	22	-2	27	31	2.51	-1.07	0.60	5.4	12	8	9	14	w.	Lehigh University.
Bustleton.....	Philadelphia.....	125	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	60	29.7	+1.8	57	30	0	27	25	2.05	-1.07	0.38	1.5	11	11	5	15	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	30	26.8	-1.3	54	20	-4	27	30	2.05	-1.27	0.39	2.0	12	11	7	13	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	31	23.9	-1.5	57	30	-8	27	34	1.33	-1.22	0.45	2.0	7	14	7	10	n.	S. W. Smith.
Chambersburg.....	Franklin.....	580	27	29.5	+0.8	60	30	5	27	28	1.87	-0.72	0.38	2.6	12	8	8	15	n.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	17	24.4	-2.5	53	30	-4	27	37	3.50	-0.34	0.90	6.0	12	11	9	11	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	39	27.6	-2.8	52	22	-2	27	34	2.51	-1.46	0.80	8.4	14	10	9	12	nw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	17	27.0	+0.5	46	22	-1	27	28	1.90	-1.65	0.37	0.8	14	10	4	17	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	39	23.9	-1.9	51	30	-14	9	39	4.46	+0.93	0.91	6.5	12	9	6	16	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	26	29.4	+0.1	46	22	2	27	26	2.17	-0.82	0.46	2.6	11	10	4	17	n.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	12	20.2	.....	49	22	-14	27	35	3.29	.....	0.62	16.2	16	5	6	20	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	20	29.6	-1.2	51	29	0	27	33	2.16	-0.91	0.60	9.0	9	13	5	13	n.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	53	30.8	+1.8	55	22	3	27	28	1.56	-1.58	0.40	1.0	11	11	6	14	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	23	26.3	-0.1	49	29	-6	27	32	1.73	-2.20	0.42	4.0	9	10	4	17	n.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	3	21.7	.....	48	31	-6	16	36	3.85	+0.61	0.80	17.1	13	10	5	16	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	34	26.9	-1.8	50	22	0	27	28	2.84	-0.92	0.62	4.0	9	11	9	11	w.	State Sanatorium.
Hanover.....	York.....	600	23	30.6	-2.3	55	22	3	27	27	1.64	-1.68	0.47	0.4	10	13	5	13	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	57	29.6	+0.6	52	30	2	27	37	2.23	-0.69	0.61	2.4	13	7	5	19	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	8	23.2	.....	50	30	-16	9	39	2.44	.....	0.73	13.2	12	13	4	14	n.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	12	29.4	.....	50	23	3	27	25	1.88	-1.70	0.45	0.5	12	8	7	16	w.	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	39	28.0	-0.6	57	30	-1	27	30	2.76	-0.56	0.68	3.7	14	10	3	18	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	1	30.6	+0.9	61	30	3	16	30	1.69	-1.91	0.34	2.4	14	7	6	18	n.	John S. Madore.
Lancaster.....	Lancaster.....	255	39	31.4	+1.8	57	24	1	27	37	2.07	-1.18	0.50	4.3	11	15	7	9	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	29	23.4	-1.2	54	29	-14	27	42	0.76	-1.28	0.23	7.0	6	8	3	20	n.	C. P. Darling.
Lebanon.....	Lebanon.....	469	86	27.8	-1.2	48	29	1	27	33	1.78	-1.81	0.42	1.3	15	5	11	e.	S. B. Benzing.	
Lewisburg.....	Union.....	450	52	26.7	+1.3	52	30	-2	27	27	2.47	-0.50	0.45	6.0	10	9	4	18	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	37	27.6	+0.2	54	30	5	27	27	2.28	-0.99	0.67	3.8	9	6	10	15	w.	Joseph Beaver.
Lykens.....	Dauphin.....	680	12	27.5	+0.3	55	30	-3	27	32	2.31	-1.20	0.44	1.0	12	15	6	10	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	36	26.4	-1.0	47	29	-5	27	39	2.54	-1.24	0.47	4.2	11	9	9	13	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	23	28.7	+1.1	57	30	0	27	25	2.26	-0.92	0.48	3.0	11	8	2	21	e.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	24	24.1	+1.6	49	30	-9	27	32	1.75	-0.96	0.30	13.0	9	5	6	20	w.	Silas Jagger.
Muncy Valley.....	Sullivan.....	1,045	15	23.2	-1.3	48	31	-10	27	32	3.11	-0.21	1.10	8.0	7	11	6	14	nw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	8	30.1	.....	52	22	1	27	29	2.34	.....	0.56	6.0	13	9	5	17	w.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	38	27.2	-0.4	54	22	-2	17	39	1.93	.....	0.58	8.0	12	13	9	9	w.	North Springfield Water Co
Palmerston.....	Carbon.....	398	10	27.8	.....	47	29	-1	27	35	1.82	.....	0.33	4.2	11	17	7	7	sw.	F. G. Breyer.
Philadelphia.....	Philadelphia.....	114	56	32.6	0.0	56	22	4	27	35	1.88	-1.53	0.52	5.5	11	8	9	14	nw.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	2	32.6	.....	54	22	4	27	27	2.06	.....	0.56	5.5	10	9	6	16	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	11	30.8	.....	51	22	4	27	29	2.00	.....	0.47	3.3	15	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze.....	Philadelphia.....	90	2	31.2	.....	52	22	4	27	29	2.11	.....	0.49	4.9	11	5	9	17	w.	Atlantic Refining Co
Phoenixville.....	Chester.....	100	16	28.0	-1.8	47	23	-1	17	30	2.10	-1.85	0.46	5.7	7	12	12	7	w.	North Springfield Water Co
Quakertown.....	Bucks.....	496	42	27.0	0.0	48	22	-1	27	33	2.62	-0.87	0.53	7.2	12	9	10	12	nw.	John E. Benner.
Reading.....	Berks.....	325	57	29.8	+0.4	48	30	-6	27	31	2.40	-1.12	0.49	4.6	13	7	9	15	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	32	25.5	-1.1	50	30	-3	27	36	2.14	-0.66	0.52	8.5	11	8	5	18	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	37	27.9	-1.0	53	30	-1	27	33	2.24	-0.88	0.35	0.5	10	8	11	12	sw.	Dr. George E. Fisher.
Shawmont.....	Philadelphia.....	51	31	29.8	.....	47	19	4	27	25	1.65	-1.60	0.53	4.2	9	12	8	11	nw.	W. S. Guiles.
State College.....	Center.....	1,217	42	26.2	-0.1	56	30	-4	27	30	2.54	-0.44	0.68	2.3	15	4	10	17	nw.	C. A. Kern.
Stroudsburg.....	Monroe.....	.....	.....	26.8	.....	49	29	-5	9	42	2.06	.....	0.54	8.9	13	13	5	13	nw.	State Normal School.
Towanda.....	Bradford.....	754	32	23.0	-2.2	54	30	-12	27	38	1.13	-0.97	0.54	5.3	13	9	5	17	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	61	21.4	-2.9	50	30	-15	27	37	1.36	-1.21	0.44	9.3	10	20	3	8	sw.	George W. Hill.
West Chester.....	Chester.....	455	89	28.9	-1.3	50	22	-1	27	30	1.96	-1.88	0.48	5.6	12	13	6	12	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	40	26.8	-0.5	55	30	-6	27	32	2.39	-0.61	0.81	1.5	10	12	5	14	w.	George A. Beck.
York.....	York.....	400	39	30.0	+0.7	57	30	-5	16	30	1.36	-1.63	0.45	1.0	10	12	8	11	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	34	29.4	-0.6	57	30	-1	16	32	4.26	+1.39	0.80	1.3	17	2	6	23	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	12	.....	.....	51	30	-11	18	39	3.85	+0.48	1.90	5.0	8	11	13	7	.....	City Engineer.
Brookville.....	Jefferson.....	1,173	36	23.2	-1.6	51	30	-11	18	39	3.85	+0.48	1.90	5.0	8	11	13	7	.....	John Favcett.
Claysville.....	Washington.....	1,150	23	30.2	-0.7	59	22	-2	16	36	3.27	-0.26	0.53	3.2	16	9	1	21	nw.	J. L. Melvin.
Corry.....	Erie.....	1,430	15	23.1	-1.2	49	30	-15	27	49	3.15	-0.15	0.73	19.5	21	12	0	19	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	30	29.8	-0.6	60	22	-1	16	40	8.28	+4.37	3.73	8.2	16	11	6	14	w.	Ted R. Wineman.
Donora.....	Washington.....	762	1	31.8	.....	59	22													

JANUARY, 1927

CLIMATOLOGICAL DATA: PENNSYLVANIA SECTION

3

Daily Precipitation for January, 1927

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.04		T	.01	.29								.32	.20	.30				.03	.04	.48	.05	.05	.35					.35	.05	T	2.56
Altoona	Juniata	.10		.05	.13	.03				.02					.09	.75	.50	.21	.25	.30	.02									.24	.25		3.00
Ansonia|||	W. Br. Susq.	.01		.03	T	T	T				T				.10	T				.19	.27	.41	.02	.02	.13					.04	.11		1.33
Baker's Summit	Juniata			.24	.15										.14					.48	.59	.26	.29	.29						.28	.04		2.76
Bethlehem	Lehigh				.22										.34	.54			.03	.02	.38	.15	.10	.05					.25	.35	.08		2.51
Bloersville||	Lower Susq.		.06																.08	.30	.38	.10	.06	.07					.16	.12		1.33	
Bustleton	Lower Del.																																
Carlisle	Lower Susq.			.06	.14	T	T				T				.18	T			T	.38	.34	.26	.08	.16	.12					.24	.09		2.05
Catawissa	N. Br. Susq.	.10	T		.03										.39	.10				.10	.24	.38	.20	.07	.12					.17	.15		2.05
Center Hall	Susquehanna				.05	.05													.14		.45	.12	.38							.14			1.33
Chambersburg	Potomac	.08		.01	.12	.02				.01	T				.22					.31	.38	.11		.17						.31	.13		1.87
Clearfield	W. Br. Susq.	.10		T	.10	T	T			.10	T	T	T		.20				T	.20	.90	.25	.40	.60	T				.10	.40	.15	T	3.50
Coatesville	Lower Del.	.01		.01	.18	T	.02			T					.40	.60	.20			.07	.23	.17	.03	.20						.36	.03		2.51
Colebrook	Lower Susq.	.01		.01	.18	.01	T				T				.37	.03			.01	.12	.30	.11	.12	.19						.35	.09		1.90
Conshohocken	Schuylkill	.01			T	.10					T				.43	.89				.02	.14	.04	T	.31						.20	.11	T	2.25
Cresson|||	Juniata		.10		.12	.10	.03												.20	.42	.28	.61	.40	.21						.27			2.74
Doylestown	Lower Del.	.06		T	.15						T				.36	*	.73				.03	.34	.07	.25	.02					T	.05	T	2.06
Driftwood|||	W. Br. Susq.		T	T	.02		T				T				.25					.30	.70	.60	.12	.16	.12					.16	.29		2.72
Emporium	do		T	T	.20	.10	T			T					.20				.40	.80	.91	.63	.41	.05					T	.12	.23	.41	4.46
Ephrata	Lower Susq.	.05		T	.29		T			T					.46	.21	T		T	.04	.23	.22	.09	.20	T					.34	.04		2.17
Forest City	N. Br. Susq.		T	T	.64	T	.09								.12		.03			.10	.30	.62	.11	T	.42					.20	.06		2.69
Freeland|||	Lehigh	.17	T			.38	.06	.08				.02	T		.12	T	.62			.09	.25	.56	.12	.15	.30			T	.02		.26	.14	3.29
George School	Lower Del.	.14			T										.18	.50	.60			T	.18	.12	T	.11					T	.29	.04		2.16
Gettysburg	Potomac			.02	.20										.40				T	.13	.04	.20	.02	.04	.12					.35	.04		1.56
Girardville|	Susquehanna	.12	.01		.25	.01	T								.29	.33			.14	.40	.12	.32	.14	.40					.12	.27	.08	3.00	
Gordon	Lower Susq.				.17										.31	.30				.42	.10		.03	.35						.02	.03		1.73
Gouldsboro||	Lehigh	.15	.18		.18		.15					.10			.55	.45				.25	.80			.35		.05				.09	.55		3.85
Graterford	Schuylkill	.11			.21		T								.47	.16	.16			.08	.16	.23	.07	.17					.08	.06		1.96	
Hamburg	Schuylkill				.40										.51	.08				.21	.32	.26	.18	.26						.62			2.84
Hamlin	Upper Del.			.10	.12	.03					.05				.40					.12	.15	.57	.07	.15	.30					.22	.05		2.33
Hanover	Lower Susq.		T		.04	.15		T			T				.47					.05	.15	.18	.05	.09						.40	.06		1.64
Harrisburg***	do		T	.04	T	.15	T	T			T				.24	.01			.07	.30	.44	.17	.10	.20				T		.34	.01	.16	2.23
Harrisburg East	do		.05		.02	.15	T	T				T			.25		.01			.35	.30	.26	.05		.31					.40	.18		2.33
Harrisburg North	do		.04		.18										.20					.12	.33	.55	.03	.07	.21					.60	.18		2.51
Hawley|||	Upper Del.	.16			T	.13	.04						.04			.73				.04	.02	.56	.22	T		.33				.13	.04		2.44
Holtwood||	Lower Susq.			.11	.17	T					T				.45	.11	.05			T	.10	.36	.02	.03	.15					.30	.03		1.88
Huntingdon	Juniata	.14		.03	.12						.05				.06				.11	.68	.49	.28	.20	.32	.01					.23	.04		2.76
Hyndman	Potomac	.02	T		.07	.04	.01	T	T	.07	T				.03				.03	.20	.34	.34	.11	.23			T			.02	.18	T	1.69
Lancaster	Lower Susq.	.03			.24	.10									.50	.30				.09	.37	.04		.18						.20	.02		2.07
Lansford|||	Lehigh	.03				.21									.25	T	.17			.18	.12	.18	.37	.20		.24				.51		.04	2.50
Lawrenceville	N. Br. Susq.		T	.05	.05	T	.10								T	.23	T			T	.23	T	.23	T	.10								0.76
Lebanon	Lower Susq.		.01	.01	.11	T	T			T				.30	T	.04				.05	.10	.42	.04	.21	.10					.30	.09		1.78
Lewisburg	W. Br. Susq.	.20			.12		T								.18					T	.44	.45	.22	.18	.32					.28	.08		2.47
Lloyd	do				T							.09							.12	.46	.54	.35	.08							.07	.37		2.08
Lock Haven	do	.04	T		T	T					T				.18					.67	.61	.21	.07	.28						.18	.04		2.28
Lykens	Susquehanna	.12			.13		T				T				.20	.07	.01			T	.43	.35		.11	.20	.04				T	.44	.21	2.31
Mauch Chunk	Lehigh		.15		T										.28	.14				.38	.39	.13	.10	.41					.04	.43	.09	2.54	
Mifflintown	Juniata	.05		T	.02										.20					.01	.44	.48	.16	.12	.33					.37	.08		2.26
Montrose	N. Br. Susq.			.15		.15									.20	.20				.20	.30	.25		.15			.15			.20			1.75
Morris Run	N. Br. Susq.	.04	.02		.08		.02								.30					.04	.53	.49	.13	.18	.24					.14	.08		2.29
Mount Union|||	Juniata		T	T	.20	T	T									T				1.10	.51	.33	.09	T	.18					T	.70		3.11
Muncy Valley	W. Br. Susq.			T	.20	T	T									.46	.03				.04	.25	.18	.02	.26	T				.03	.32	.03	2.34
Narberth	Lower Del.	.07			.09	T																											

Daily Precipitation for January, 1927—Continued from page 3

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....	.03		.08	.16	.10	.08		.03			.04	T.		.24	.01				.65	.53	.45	.80	.25	.25					.53	.03		4.26	
Beaver Falls|||	Beaver.....	.02		.08	.12	.07	.08	T.	T.			.01	T.		.24	.01				.63	.46	.46	.64	.23	.19					.45	.03		3.67	
Bradford.....	Allegheny.....																																3.85	
Brookville.....	do.....	T.		.10	T.	.05									.24	.09				.20	1.90	.45	.25	.45	T.	T.			.45			3.27		
Claysville.....	Ohio.....	.06	T.	.16	.11	.06	.02	T.	T.						.24	.09				.27	.43	.47	.18	.53	.28	T.		T.		.18	.17	.02		4.01
Cloeff.....	Allegheny.....	T.		.26	T.	.06	.05								.29					.25	.70	.52	.18	.60	.36					.68	.06			
Clymer|||	Conemaugh.....			.10	.22	T.	.10								.42					.06	.96	.59	.36	.84	.44	.12			.06	.71	.07		5.05	
Confluence|||	Youghiogheny.....	.14	.03	.20	.12	.24	.10			.05	.03				.20	.05					.27	.42	.85	.20	.33	.52				.51	.10		4.36	
Coraopolis|||	Ohio.....	.05		.29	.17	.12	.06	T.	T.			T.	T.		.34	T.					.57	.53	.59	.38	.28	.39				.64	.04		4.42	
Corry.....	Allegheny.....	.04	.04	.06	.22	.21	.10	.02	T.			.02	.01		.40	.01	.01			.21	.73	.08	T.	.21	.16	T.		.01	.31	.15	.15	T.	3.15	
Coudersport.....	do.....				.30									.40							.33		.23		.30					.28			1.84	
Creekside.....	Allegheny.....		.05		.41	.18	.10	.06							.34					*	1.24	*		2.00	.51				*	.82	.03		5.74	
Derry.....	Conemaugh.....	.19		.26	.22	.41	.12	T.							.26					.12	.70	.60	.11	3.73	.57	.05			.27	.43	.24		8.28	
Donora.....	Monongahela.....	*	*	*	.31	.06	.03					.03			.17	T.				.02	.60	.24	.44	.36	*	.75			.43		.14		3.58	
Ebensburg.....	Conemaugh.....	.30		.30	.15	.12	.09								.14					T.	.71	.25	.70	.40	.18				T.	.55	.16		4.05	
Elk Lick.....	Youghiogheny.....	.30	.40		.30		.10	.10						.30		.20					.40	.40	.12	.50	.50					.46	.08		4.16	
Falls Creek.....	Allegheny.....	.03			.33			.05		.02					.38					.30	1.05	.56	.13	.36	.16					.67		.11		4.15
Franklin|||	Allegheny.....	T.		.10	.09	.07	.03	.07			T.				.29						.70	.51	.23	.37	.12	T.				.72	.06		3.36	
Freeport|||	Allegheny.....	.03	T.	.05	.35	.13	.08	.03							.28	.02					.73	.58	.77	.71	.34	.46				.70	.09		5.35	
Greensburg.....	Youghiogheny.....	.08	T.	.28	.19	.16	.12	.07				T.	.02		.37	T.				.13	.64	.61	.15	.67	.54	.03		T.	.19	.04	.30		4.59	
Greenville.....	Beaver.....	.04	.01	.01	.26	.06	.06	.01				T.			.13	.02				.11	.85	.19	.01	.31	.08				.23	.13	.05		2.56	
Grove City.....	Beaver.....	.02	T.	.08	.26	.18	.12	.03				.10			.53	.14				.20	.96	.30	.05	.37	.06	T.			.55	.23		.02	4.20	
Herr's Isl. Dam|||	Ohio.....	.03	.01	.38	.14	.09	.03	T.	T.						.25	T.	T.				.55	.41	.62	.28	.29	.40				.54	.03		4.05	
Indiana.....	Conemaugh.....	T.		.20	.40	.20	.30	T.							.04					*	1.40	.50	.70							1.02			4.76	
Ingram.....	Ohio.....	.01	.08	.22	.20	.15	.01	T.	T.						.30	T.				.27	.56	.61	.12	.60	.36	.01			.40	.08	.05	T.	4.03	
Irwin.....	Youghiogheny.....	.08	T.	.25	.15	.10	T.	T.							.30	T.				.30	.75	.52	.17	.32	.38	.01			.32	.33			3.68	
Johnstown.....	Conemaugh.....	.11	.10	.05	.25	.24	.14		.01	.04		.02		.22	.03	.01				.15	.79	.71	.44	.38	.41				.08	.53			4.71	
Kregar|||	Youghiogheny.....	.16	.03	.20	.09	.28	.11	.09	T.	.01				.26	.04	.03				.20	.76	.70	.38	.37	.46	T.		T.	.62	.25			5.04	
Linesville|||	Beaver.....		.04	.14	.07	.06	.02	T.	T.					.24	.02					.42	.21	.12	.21		.14				.24				1.95	
Lock No. 4|||	Monongahela.....	.07	.01	.22	.10	.13	.03	.01			T.	T.			.22	.01				.38	.47	.51	.13	.48	.50				.53	.09			3.89	
Lycippus.....	Conemaugh.....	.17		.28	.16	.30	.07								.57					.10	.70	.60	.22	.81	.49				.27	.35	.09		5.18	
Mount Lebanon.....	Ohio.....	.04		.27	.23	.14	T.					T.			.29					.21	.56	.52	.11	.57	.48	T.			.45	.08	.06		4.01	
New Castle|||	Beaver.....		.05	.15	.10		.20	.12				.02		.20						.88	.31	.34	.47	.19	.14	T.			.62	.04			3.33	
Newell.....	Monongahela.....	.14	T.	.38	.21	.02	T.	T.				.02			.22					.13	.43	.50	.12	.63	.34	.02			.15	.29	.06		3.66	
Parkers Landing|||	Allegheny.....	.05		.10	.18	.20	.10	.10							.35	.10	T.				.95	.61	.45	.34	.13	.10				.80	.12		4.68	
Pennline|||	Beaver.....	.05		.04	.14	.07	.06	.02	T.	T.	.02				.27	.04				.45	.20		.13	.23						.22	.05		1.94	
Pittsburgh***	Ohio.....	T.	.25	.11	.23	.09	.02	T.	T.		T.	T.		.03	.21	T.				.24	.35	.57	.15	.51	.34			T.		.40	T.	.02	T.	3.52
Ridgway.....	Allegheny.....																				.46	.49		.13		.04							1.46	
Saegertown|||	Allegheny.....				.19	.12									.03						.48	.56	.70	.20	.45	.49				.62			4.50	
Saltsburg|||	Conemaugh.....	.07	T.	.18	.15	.17	.15	.03	.01					.22	.02						.82	.28	.20	.23		.17				.28			2.52	
Sharon|||	Beaver.....	T.	T.	T.	.17	.12	.04	.02	.02					.17	T.					.21	.03		.40	.45	.50	.76	.40			.40			3.84	
Somerseset.....	Youghiogheny.....	.05		.20	.07	.15	.08	.04		.04		.02			.21	.03					.40	.45	.50	.76	.40									
Springdale|||	Allegheny.....	.07	.02	.14	.13	.14	.13		.02						.25	.02					.62	.54	.66	.33	.35	.42	.05		T.		.60	.03		4.52
Uniontown.....	Monongahela.....	.19	T.	.26	.21	.14	.03			T.					.26						.17	.42	.63	.23	1.38	.56	.05			.32	.14		4.99	
Unity Reservoir|||	Youghiogheny.....	.22	T.	.31	.20	.40	.38	.05						.05	.02	T.					.12	.85	.60		.80	.58	.05		T.	.23	.35	.20		5.41
Vandergrift.....	Conemaugh.....		.25		.38	.05		.10							.25						.42	.71	.55	.20	.62	.55				.80	.07		4.95	
Warren.....	Allegheny.....	.05		.04	.07	.10	.30	.09				.05			.03						.05	.45	.06		.22	.10				.15	.20	.10		2.06
Washington.....	Ohio.....	.01	.09	.06	.14	.04	.01	T.	T.			.01		.11	.18	T.				.31	.52	.53	.17	.54	.28	.10		T.		.49	T.	.07		3.66
Westford|||	Beaver.....		T.	T.	.20	T.	T.	.05					.02		.05	.05					.25		.24	.22		.05				.34			1.47	
West Newton|||	Youghiogheny.....	.10		.27	.09	.19	.05	.01	T.					.01	.20	T.					.41	.44	.47	.18	.47	.55		T.		.52	.18		4.14	
Zellenople|||	Ohio.....	.09		.05	.19	.12	.05	T.	.01		T.			.06		.23	.02	*			.72	.56	.38	.77	.24	.15				.63	.03		4.80	
Lake Drainage.																																		
Erie***	Lake Erie.....	.04	.02	T.	.11	.06	.09	.04	T.		.08	.01	T.	.30	.19	T.				.31	.29	T.	T.	.15	.12			T.		.06		.02	T.	1.89
West Bingham.....	Genesee.....	T.	T.	.10	.10	.30									.10						.60	.25	.10	.15	.10								2.00	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for January, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean			
Allentown.....	Maximum	21	16	16	27	33	26	24	13	12	12	11	13	18	25	17	7	17	19	34	41	44	41	38	44	32	35	40	40	26	35	45	43	41	35.4
Altoona.....	Maximum	33	27	31	35	34	30	23	21	17	24	21	13	18	25	17	7	17	19	34	41	44	41	38	44	32	35	40	40	26	35	45	43	41	35.4
Beaver Dam.....	Maximum	22	15	24	27	30	19	17	3	0	12	2	11	16	21	2	-3	5	25	32	36	33	35	22	27	23	13	-3	17	33	34	28	18.6		
Bradford.....	Maximum	35	30	33	39	36	33	29	24	25	26	25	30	43	42	26	17	38	39	50	50	43	49	33	33	40	39	34	43	46	57	49	36.6		
Brookville.....	Maximum	23	21	29	33	33	27	23	14	11	11	12	9	25	23	6	-1	16	22	35	34	32	29	24	25	30	12	2	23	36	37	30	22.1		
Carlisle.....	Maximum	32	28	33	34	34	25	25	25	20	28	29	39	39	12	15	34	37	45	36	40	42	30	27	37	23	32	38	42	51	34	32.2			
Catawissa.....	Maximum	13	18	25	29	20	19	6	11	10	-4	7	19	5	-1	-5	10	16	33	32	34	22	21	15	21	-5	-7	19	29	32	28	14.3			
Chambersburg.....	Maximum	49	33	38	40	41	33	31	27	27	30	30	32	35	37	36	24	37	41	37	41	42	46	45	35	38	30	25	38	48	57	51	37.2		
Clearfield.....	Maximum	31	18	25	29	33	25	25	12	9	12	13	16	15	27	11	7	15	20	33	34	35	34	26	29	18	13	0	25	28	34	35	22.2		
Coatesville.....	Maximum	33	29	34	38	44	30	31	30	25	34	24	36	38	36	21	26	33	40	42	43	40	40	37	36	43	19	21	35	45	54	44	34.9		
Corry.....	Maximum	22	2	21	29	32	23	18	3	1	14	4	6	13	26	9	12	15	15	37	34	33	33	21	27	15	11	-4	20	30	28	31	18.7		
Emporium.....	Maximum	35	32	36	40	40	35	31	24	24	26	28	32	36	40	33	23	40	38	36	42	45	52	34	40	44	40	27	34	53	60	50	37.1		
Franklin.....	Maximum	26	16	23	28	32	25	24	15	12	14	10	16	16	24	12	6	15	21	32	33	35	34	28	22	23	22	5	13	33	32	33	21.9		
Gettysburg.....	Maximum	34	32	35	40	36	33	28	24	29	26	24	33	47	46	25	19	40	39	52	52	57	59	38	38	41	38	39	45	50	58	45	38.8		
Grove City.....	Maximum	22	18	28	31	31	22	16	11	11	14	11	8	25	21	7	-2	15	25	38	33	35	31	25	26	20	13	3	23	39	39	28	21.5		
Harrisburg.....	Maximum	32	30	35	35	35	29	29	30	20	32	30	32	38	33	20	18	34	33	41	41	45	35	32	34	33	33	34	33	34	43	53	33.7		
Hawley.....	Maximum	12	10	25	24	22	20	12	10	-2	2	10	14	5	0	-3	0	8	16	25	29	34	34	24	24	20	11	-4	14	32	30	14	15.2		
Huntingdon.....	Maximum	36	31	35	39	40	33	29	25	27	29	25	30	36	40	32	19	37	41	44	45	44	52	36	30	40	31	27	34	49	48	48	35.9		
Indiana.....	Maximum	23	15	23	24	32	25	18	7	6	13	12	8	10	30	9	5	3	12	34	39	36	36	25	28	20	5	-2	9	33	31	31	19.4		
Johnstown.....	Maximum	32	25	30	33	33	25	23	24	24	25	17	27	38	39	17	14	31	35	45	36	44	44	26	30	37	31	34	36	41	49	40	31.8		
Lancaster.....	Maximum	15	10	23	26	23	18	10	-1	-13	5	3	8	20	16	-1	-7	12	19	33	31	32	23	16	14	13	-3	-15	22	33	28	22	14.4		
Lawrenceville.....	Maximum	32	27	35	37	37	27	25	23	22	25	27	37	35	18	16	33	35	47	40	38	40	28	31	37	30	26	36	44	51	41	32.4			
Lebanon.....	Maximum	10	8	25	30	27	21	1	1	-14	8	8	12	13	15	1	-4	14	20	35	34	34	25	20	21	16	-1	-13	15	35	32	28	15.4		
Lycippus.....	Maximum	31	30	31	35	34	26	25	23	26	23	21	29	42	34	16	18	34	40	47	36	47	46	24	30	35	26	31	40	47	52	35	32.6		
Mauch Chunk.....	Maximum	18	21	30	31	25	23	18	15	12	15	16	16	29	16	3	-2	18	31	36	33	32	20	18	20	22	-1	-3	30	38	33	25	20.6		
Montrose.....	Maximum	20	30	36	35	33	25	23	28	23	28	22	31	41	30	9	23	36	45	48	35	45	38	29	35	39	13	34	40	53	49	32	32.7		
Muncy Valley.....	Maximum	23	16	19	23	27	20	11	1	-1	3	5	6	7	28	4	-6	-5	19	20	23	32	33	19	17	19	6	-5	-5	27	37	27	14.5		
Philadelphian.....	Maximum	26	25	31	32	32	24	20	15	27	20	12	20	30	38	18	10	29	43	36	39	38	49	26	26	30	24	21	26	40	48	38	28.8		
Pittsburgh.....	Maximum	14	2	18	20	20	14	6	-2	4	6	-4	0	8	20	-2	-8	4	18	26	32	32	26	14	14	12	-7	-14	9	24	30	26	11.7		
Reading.....	Maximum	37	33	38	43	40	35	30	28	30	28	30	37	42	38	30	32	40	42	44	48	55	55	38	50	37	30	34	51	54	52	39.5			
Scranton.....	Maximum	22	17	22	28	33	25	24	12	11	13	11	12	14	29	18	7	14	22	32	37	36	35	28	30	22	26	3	14	29	31	34	22.1		
State College.....	Maximum	33	30	31	40	34	30	24	20	24	22	22	32	43	46	24	16	38	39	52	51	60	58	32	32	39	31	37	47	48	66	44	36.6		
Stroudsburg.....	Maximum	20	20	28	31	29	22	18	5	10	12	10	16	24	24	5	-1	13	28	39	35	37	32	28	27	24	13	3	27	40	39	30	22.2		
Towanda.....	Maximum	35	25	32	34	34	29	24	19	18	22	22	28	39	39	22	15	33	34	46	51	47	50	30	29	34	34	30	34	44	44	44	32.9		
Uniontown.....	Maximum	18	16	24	26	26	20	18	-5	2	9	11	21	1	19	2	-6	12	20	35	31	33	28	20	18	16	4	-2	24	33	38	27	17.4		
Warren.....	Maximum	36	30	35	35	39	34	28	27	29	26	29	34	30	30	8	11	10	16	32	36	36	34	30	25	24	12	0	11	16	31	32	35.0		
West Bingham.....	Maximum	29	15	25	23	33	34	28	22	9	4	7	1	7	8	11	10	16	32	36	36	36	34	30	25	24	12	0	11	16	31	32	18.8		
Williamsport.....	Maximum	37	32	35	41	40	31	29	24	24	24	21	26	32	36	40	26	38	40	44	44	44	50	34	35	44	35	26	35	47	52	42	36.0		
York.....	Maximum	21	20	28	31	31	26	18	13	12	18	15	18	24	26	9	5	18	27	35	39	37	34	27	32	27	4	2	19	34	35	35	23.2		
	Minimum	32	22	32	35	35	30	26	25	21	27	21	28	31	33	32	15	31	38	42	42	42	34	31	37	36	23	31	37	36	45	50	48	33.2	
	Minimum	20	6	18	27	30	20	13	-3	-16	-5	-1	7	-3	27	3	8	18	32	34	33	32	17	18	-2	1	-14	0	30	27	30	13.2			
	Maximum	33	31	35	39	39	34	28	23	22	26	27	32	35	37	30	20	36	37	38	43	45	39	37	42	35	29	38	53	57	50	35.7			
	Minimum	25	15	26	28	32	22	6	2	8	5	17	16	29	6	3	13	19	32	35	34	26	30	16	17	-1	13	34	33	32	20.3				
	Maximum	34	26	30	38	34	29	23	23	26	23	20	41	42	22	14	34	35	48	49	46	55	33	32	36	34	36	45	46	55	45	35.1			
	Minimum	20	20	26	29	28	22	19	16	1	11	5	....	42	22	3	0	8	19	35	34	36	32	26	25	22	11	2	24	36	31	28	20.0	
	Maximum	35	32	33	37	35	29	24	20	23	26	23	29	39	40	22	18	37	37	47	47	46	54	36	36	40	32	35	41	48	54	42	35.4		
	Minimum	21	20	30	31	29	21	18	8	7	17	13	27	23	22	3	0	12	22	36	37	38	32	28	25	14	4	16	38	38	30	22.1			
	Maximum	40	37	45	44	42	37	32	30	35	34	37	38	43	43	40	43	50	48	48	50	50	57	41	45	35	33	47	47	47	47	41.9			
	Minimum	24	24	26	25	34	25	10	9	15	11	9	12	27	9	6	7	24	32	33	34	34	30	25	20	15	1	13	28	30	28	20.8			
	Maximum	35	27	31	37	38	31	25	24	15	23	22	33	31	35	23	22	32	38	42	44														

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

FEBRUARY, 1927.

No. 2

GENERAL SUMMARY.

This was an unusually mild winter month, there being only three or four days with a mean temperature below the normal. There have been a few occasions when the mean temperature for the month was higher than it was this year, but in each instance the temperature range was greater. In other words, the minimum temperature for the month was higher in nearly all parts of the State than for any previous February. The snowfall was comparatively light until near the end of the third week when the heaviest snow and sleet storm of the winter occurred. In the greater portion of the State the highways were blocked for three or four days, while rail transportation was seriously delayed. Glaze occurred in some parts of the State, especially in the southeastern counties, accompanied by gales that broke thousands of telegraph, telephone, and electric light wires, leaving several of the smaller town in darkness. The storm also did some damage to trees and outbuildings. It brought the average snowfall for the State up to 6.1 inches above the February normal. When the snow melted rapidly a few days later it raised the streams from low to moderate or high stages, and some streams in the western part of the State were bank full. Flood stages were neared in the Monongahela, and in the upper Ohio river at Pittsburgh. The month was not wholly favorable for the winter grains, but the chief damage seems to have occurred to late seedings that did not become deeply rooted last autumn. The wheat crop as a whole was reported as fair to good at the end of the month.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 82 stations, was 35.0°, which is 7.3° above the February normal. The highest mean was 40.6° at Philadelphia Weather Bureau and the lowest was 27.4°, at West Bingham. The highest temperature recorded during the month was 69°, at Claysville, on the 16th, while the lowest, 8° below zero, occurred at Saegerstown on the 22d. The greatest daily range of temperature was 50°, at Saegerstown on the 22d.

PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as determined from the reports of 131 stations, was 3.48 inches, or an excess of 0.82 inch as compared with the normal for the month. The greatest monthly amount was 5.94 inches, at Johnstown, and the least was 1.25 inches at Montrose. The greatest amount recorded in any 24 consecutive hours was 2.25 inches, at Center Hall on the 21st. The average snowfall for the State was 16.5 inches, which is 6.1 inches greater than the February normal. The greatest monthly snowfall was 37.0 inches, at Carlisle, while the greatest 24-hour snowfall reported was 17.0 inches, at Johnstown and also at Unity Reservoir on the 19-20th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent				Velocity, in miles per hour			
				8 a m	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	42.4	296.6	14	79	73	75	10,770	16.0	48	sw.	26
Harrisburg.....	130.8	299.7	44	80	65	69	4,634	6.9	33	ne.	19
Philadelphia.....	136.5	299.7	46	82	75	75	6,635	9.9	32	ne.	19
Pittsburgh.....	87.0	298.2	29	84	75	75	8,699	12.9	41	w.	3
Reading.....	103.8	299.7	35	81	66	72	4,739	5.5	37	se.	20
Scranton.....	94.1	309.5	30	86	74	80	5,214	7.8	44	w.	3

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11	9
1889.....	28.0	60	-27	1.96	3.87	0.97	7	9	12	9
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14	11
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14	12
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15	9
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8	6
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13	11
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13	9
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12	9
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13	12
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14	11
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9	8
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12	10
1903.....	30.5	68	-17	4.49	6.13	1.30	10	7	11	10
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12	11
1905.....	20.8	59	-25	1.70	2.33	0.44	10	8	10	8
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9	8
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9	8
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12	11
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15	14
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12	11
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15	10
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10	8
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11	9
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11	10
1915.....	33.3	73	-3	3.90	6.95	1.85	9	5	14	9
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14	12
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10	9
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10	11
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12	11
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12	10
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10	10
1923.....	24.6	58	-20	2.16	4.80	0.65	8	8	12	12
1924.....	26.9	70	-25	2.94	5.16	1.27	11	7	11	10
1925.....	35.6	71	-11	2.16	4.61	0.55	11	7	10	8
1926.....	28.7	65	-13	4.06	7.29	1.34	7	6	15	12
1927.....	35.0	69	-8	3.48	5.94	1.25	7	8	13	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.1	5.5	1	3.3	15	18
Phillipsburg.....	Delaware.....	3.7	6.5	27	2.5	10	22
Mauch Chunk.....	Lehigh.....	2.1	2.5	8	1.4	25	12
Wilkes-Barre.....	Susquehanna.....	7.2	11.1	1	4.4	16	20
Williamsport.....	Susquehanna.....	5.9	8.3	19	4.0	15	20
Harrisburg.....	Susquehanna.....	.....	.....	.....	.....	.....	17
Freepoint.....	Allegheny.....	10.5	15.1	26	6.2	14	22
West Newton.....	Youghiogheny.....	4.2	7.6	25	2.0	11	20
Lock No. 4.....	Monongahela.....	19.4	26.6	7	15.3	12	31
Pittsburgh.....	Ohio.....	16.4	21.6	26	12.6	14	25
Beaver Dam.....	Ohio.....	15.9	24.3	26	9.9	14	30

Climatological Data for February, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	34.4	.....	56	17	19	20	26	3.03	+0.02	.....	10.1	9	15	10	3	sw.	John A. Frick.
Altoona	Blair	1,615	40	34.6	+8.8	62	17	20	11†	35	3.43	+1.32	0.67	26.0	15	10	9	9	nw.	Lewis E. Biller.
Bethlehem	Northampton	295	43	36.8	+7.0	58	17	13	20	26	1.94	-1.55	0.46	10.1	9	13	2	13	nw.	Lehigh University.
Bustleton	Philadelphia	125	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle	Cumberland	467	60	36.0	+6.6	63	17	4	22	42	5.29	+2.32	2.38	37.0	14	10	8	10	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	33.9	+4.8	54	17†	11	22	37	2.40	-0.28	0.80	17.7	11	9	5	14	.....	H. H. Yetter.
Center Hall	Center	1,272	31	30.7	+4.8	60	17	12	11	36	5.18	+2.88	2.25	22.7	14	14	2	12	.....	S. W. Smith.
Chambersburg	Franklin	580	27	35.7	+4.9	64	17	15	22	36	4.34	+1.43	1.71	19.3	12	9	7	12	nw.	William B. Spear.
Clearfield	Clearfield	1,120	17	35.4	+4.9	64	17	13	11	40	4.94	+2.25	1.00	30.0	17	11	5	12	sw.	E. W. Hess.
Coatesville	Chester	380	39	34.6	+4.7	58	17	14	22	32	3.84	-0.26	0.98	9.0	14	8	11	9	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	34.2	+4.4	58	17	12	22	32	3.64	+0.72	.....	16.3	16	10	4	14	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	32.2	+7.5	52	3	6	22	37	4.69	+1.82	1.10	27.0	14	2	6	20	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	36.0	+7.9	60	17	15	22	31	2.71	-0.45	0.74	15.1	14	7	7	14	w.	Ira J. Keath.
Freeland	Luzerne	1,970	12	30.6	.....	52	23	14	5†	34	3.41	.....	0.76	21.5	15	4	6	18	nw.	Theo. Reichmann.
George School	Bucks	190	20	36.6	+6.9	61	24	22	7†	31	3.18	+0.08	1.20	5.7	9	15	5	8	n.	Prof. N. W. Swayne
Gettysburg	Adams	600	53	37.6	+7.3	67	17	20	8	37	3.07	+0.26	0.73	15.0	12	7	10	11	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	23	33.1	+7.8	54	17†	9	22	37	4.16	+0.69	0.95	18.7	14	10	3	15	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	3	28.6	.....	47	23†	12	5†	27	2.18	-1.55	0.95	14.2	10	7	4	17	w.	Gustav Holtz.
Hamburg	Berks	535	34	35.3	+6.5	58	17	19	22	27	2.22	-1.17	0.65	12.0	8	7	16	5	w.	State Sanatorium.
Hanover	York	600	23	37.8	+6.1	60	17	22	28	2.60	-0.14	0.89	6.7	12	12	8	8	w.	Mrs. Mabel C. Wolcott.	
Harrisburg	Dauphin	361	57	36.6	+6.4	61	17	22	20†	28	3.01	+0.31	1.02	14.2	12	5	4	19	w.	U. S. Weather Bureau.
Hawley	Wayne	900	8	30.8	.....	55	25	8	12	32	3.01	.....	0.93	13.0	10	8	9	11	e.	J. S. Pennell.
Holtwood	Lancaster	200	12	36.8	.....	59	18	24	22	27	2.99	+0.42	0.86	9.5	11	10	8	10	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	35.3	+6.9	61	4	9	22	39	4.00	+1.16	2.00	24.3	14	7	4	17	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	37.2	+7.1	66	17	14	22	39	4.18	+1.44	1.01	19.6	13	5	8	15	.....	John S. Madore.
Lancaster	Lancaster	255	39	38.2	+8.4	65	17	13	22	41	2.97	+0.29	0.80	13.0	12	11	12	5	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	31.8	+8.8	52	4	5	22	41	2.40	+0.57	0.76	22.0	10	7	4	17	.....	C. F. Darling.
Lebanon	Lebanon	469	86	34.8	+6.1	61	17	17	22	31	2.28	-1.19	0.88	12.5	10	17	6	5	w.	S. B. Benzing.
Lewisburg	Union	450	52	34.4	+8.6	55	4	7	22	35	4.19	+1.40	1.15	20.0	14	7	4	17	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	35.8	+8.7	57	4	14	22	30	4.50	+1.65	1.34	24.7	12	5	11	12	ne.	Joseph Beaver.
Lykens	Dauphin	680	12	35.4	+5.3	58	17†	11	22	37	3.38	+0.94	1.28	10.5	12	12	8	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	33.5	+6.5	57	17	15	12	31	3.30	-0.57	0.77	9.4	14	10	6	12	w.	R. K. Wintermute.
Mifflintown	Juniata	445	23	35.4	+8.7	60	17	19	12	34	4.35	+2.01	1.80	29.0	16	9	1	18	e.	Wellington Smith.
Montrose	Susquehanna	1,720	24	29.2	+8.9	50	24	10	20	29	1.25	-0.82	0.20	18.0	10	3	5	20	s.	Silas Jagger.
Muncy Valley	Sullivan	1,045	15	33.4	+7.7	49	4	15	12	30	4.08	+1.71	.....	18.3	10	5	11	12	w.	A. H. Boatman.
Narberth	Montgomery	300	8	37.4	.....	61	17	24	5†	28	3.55	.....	1.11	6.4	15	10	7	11	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	34.7	+5.6	62	17	19	8†	40	2.82	.....	1.00	4.8	10	14	7	7	w.	North Springfield Water Co
Palmerton	Carbon	398	10	34.0	.....	57	17	21	12†	29	1.87	.....	0.60	8.5	11	12	13	3	sw.	F. G. Breyer.
Philadelphia	Philadelphia	114	56	40.6	+6.7	62	17	27	5	24	3.62	+0.24	1.90	1.9	12	5	11	12	sw.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	113	2	40.4	.....	64	17	27	5†	28	3.66	.....	1.17	6.0	13	6	12	10	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	38.5	.....	63	17	23	5	28	2.61	.....	0.57	3.6	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	39.4	.....	62	17	25	5	26	3.52	.....	1.37	3.2	12	5	12	11	w.	Atlantic Refining Co
Phoenixville	Chester	100	16	36.7	+4.9	62	24†	18	6	34	2.52	-0.69	0.76	4.0	8	11	12	5	w.	North Springfield Water Co
Quakertown	Bucks	496	42	34.8	+6.6	57	17	20	8	27	2.63	-1.13	0.78	8.6	13	6	11	11	nw.	John E. Benner.
Reading	Berks	325	57	37.6	+8.8	61	17	23	5	28	3.00	-0.50	0.97	13.5	15	6	9	13	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	33.2	+5.9	50	25	19	5	25	2.55	-0.17	0.59	13.8	15	3	8	17	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	34.4	+7.3	55	4	11	22	33	3.49	+0.55	0.90	17.0	11	11	9	8	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	36.4	.....	52	17†	22	12	24	3.40	+0.22	0.95	4.1	12	9	9	10	nw.	W. S. Guiles.
State College	Center	1,217	42	34.2	+8.7	53	17	19	11†	30	3.78	+0.99	0.90	19.5	14	5	15	8	w.	C. A. Kern.
Stroudsburg	Monroe	.....	.....	33.8	.....	56	24	16	8	29	3.39	.....	0.76	10.0	10	13	5	10	nw.	State Normal School.
Towanda	Bradford	754	32	31.5	+7.9	52	4	15	13†	27	3.60	+1.69	0.90	23.0	15	1	12	15	w.	Hiram E. Bull, C. E.
Wellsville	Tioga	1,419	61	29.6	+5.0	50	4†	2	22	41	2.85	+0.50	0.56	27.5	11	12	9	7	w.	George W. Hill.
West Chester	Chester	455	89	36.0	+5.2	60	17	21	5†	30	2.68	-1.22	0.71	6.6	14	11	7	10	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	40	34.0	+7.4	53	4	14	22	30	3.75	+1.19	0.83	21.5	11	8	6	14	nw.	George A. Beck.
York	York	400	39	37.2	+7.6	66	17	20	22	39	3.31	+0.28	1.38	12.0	12	8	11	9	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	36.6	+4.0	66	17	12	11	36	3.06	+0.75	0.66	13.5	18	0	7	21	sw.	U. S. Engineer.
Bradford	McKean	1,427	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	City Engineer.
Brookville	Jefferson	1,173	36	31.2†	+6.9	56†	17	12†	22	32†	3.14	+0.69	0.75	22.0	11	8	7	13	.....	John Fawcett.
Claysville	Washington	1,150	23	38.7	+8.9	69	16	15	11	39	3.83	+1.34	0.83	20.3	15	13	4	11	s.	J. L. Melvin.
Corry	Erie	1,430	15	30.4	+5.0	54	23	-2	22	43	3.47	+0.24	0.56	26.2	19	1	13	14	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	30	37.7	+9.6	65	16	11	22	38	4.32	+1.33	1.00	25.5	18	9	8	11	w.	Ted R. Wineman.
Donora	Washington	762	1	39.2	.....	67	16	18	22	34	3.65	.....	0.70	12.0	13					

Daily Precipitation for February, 1927

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh				T.									.03		.35	.15	T.		.23	*	1.65		.01				.41						3.03
Altoona	Juniata					.24	.07						.03		.13	.63		.22		.23	.67	.67	.05		.07	.01		.10	.28	.03				3.43
Ansonia	W. Br. Susq.		T.		T.		.11						.07		.37	.16			.19	.07	.21	.24	.17	.01	.01		.04	.44	T.		.03			2.12
Baker's Summit	Juniata			.28		.74									.76	.02	.17			.21	.68	1.65		.25	.20									4.96
Bethlehem	Lehigh					.05							.20		.20					.25	.46	.20					.36	.02	T.					1.94
Bloersville	Lower Susq.					.40							.20		.80		.10			.05	*	2.50						.15						4.20
Bustleton	Lower Del.																																	
Carlisle	Lower Susq.			.12		.40						.26		.42	.38	.06	.06				.94	2.08	.18	.12	.06		.11	.10	T.	T.				5.29
Catawissa	N. Br. Susq.				.08						.10		.10	.08			.02			.80	.37	.30	.02	.10			.43							2.40
Center Hall	Susquehanna			.04		.12	.07						.10		.45					.18	*	1.40	2.25	.10		.05	.06	.12	.14	T.				5.18
Chambersburg	Potomac			.17		.87						.11		.17	.23		.05			.21	.46	1.71	.07	T.			.13	.16						4.34
Clearfield	W. Br. Susq.		.05	.14	.03	.20	.40					.05		.10	1.00		.40			.30	.80	.90	.02		.20		.10	.20	.05					4.94
Coatesville	Lower Del.	.03				.43	.30					.18		.33	.15		.08		.16	.98	.88	T.	.08				.14	.02	.08					3.84
Colebrook	Lower Susq.			.06		.36	.06				.11			*	.57	.06	.12		.13	*	1.82	.04	.10				.18	.01	.02	T.				3.64
Conshohocken	Schuylkill				.02							.01		.38	.10		.05			.21	1.72		.01	T.			.81							3.31
Cresson	Juniata				.33	.18					.09		.17	.65		.21		1.10	1.08	.14					.23	.37	.09	.05	.03					4.72
Doylestown	Lower Del.			T.		T.	.18					.01		.16	.28		.08			.22	.67	.55	.06				.02	.33						2.55
Driftwood	W. Br. Susq.		.04		.06	T.	.12					.50		.53	.20			.80	.15	.48	.68	.58		.17		T.	.40							4.71
Emporium	do.	.08	.10	.06		.09					.20		.20	.49		.98		.10	.80	1.10	T.	.10			T.	.23	.16	T.	T.					4.69
Ephrata	Lower Susq.			.04		.20					.06		.27	.28	.02	.06			.16	.64	.74	T.	.05			.05	.08							2.71
Forest City	N. Br. Susq.				.09						.14		.40					.33	.33	.24	.19	.12	.04			.03	.51	T.	T.					2.43
Freeland	Lehigh			.12		.10	.02				.12		.19	.10	.40		.18	.21	.76	.28	.26	.20	.24				.34	.08	T.					3.41
George School	Lower Del.			T.		.03	.12				.19		.32	.13		.09			.30	1.20	T.						.80							3.18
Gettysburg	Potomac			.10		.75	.02				.10		.10	.30		.05		.20	.60	.73	.10					.02								3.07
Girardville	Susquehanna			.02		.07	.05				.10		.52	.10		.04		.65	.70	.40	.10	.13				.45		.06						3.39
Gordon	Lower Susq.			T.		.10	.25				.05		*	.54		.17		.23	.80	.95	.10	.20	.03			T.	.60	.10						4.16
Gouldsboro	Lehigh			.05		.04					.12			.10		.15	.80			.45	.10						.28			.09				2.18
Graterford	Schuylkill				.11	.16					.04		.08	.28				.30	.38	.63	.35						.43	.04						2.80
Hamburg	Schuylkill				.21	.16					.10		.23			.21		.33	.65	.80							.19	T.						2.22
Hamlin	Upper Del.				.25					.10			.25	.15		.70	.35	.30	.32	.20	.12					.52								3.26
Hanover	Lower Susq.			.07		.51					.14		.10	.23		.04		.11	.36	.89	.03					.04	.08							2.60
Harrisburg	do.			.07		.34				.01	.09		.50	.24		.08		.27	.93	.15	.06	T.				.21			T.	T.				3.01
Harrisburg East	do.			.05		.33				.05		.35	.27	.03	.08		.08	.27	.72	1.34	.08	.06	.01			.27	T.	T.						3.91
Harrisburg North	do.				.12	.06	.26			.07		*	.51	.18			.08	.12	.63	1.15	.27	.06				.27								3.78
Hawley	Upper Del.			T.		.17				.07		*	.30			.50		.93	.31		.11			T.		.56	T.							3.01
Holtwood	Lower Susq.			.03		.05	.40				.30		.37	T.		.02	.12	.44	.86	.26	T.				.14			T.						2.99
Huntingdon	Juniata		.02		.26	.11					.06		.20	.65	.03	.21		.20	.70	1.30	T.	.08		.03	.15		T.	T.						4.00
Hyndman	Potomac		.17		.92	.03	T.				T.	.04		.13	.41	.14		.17	.76	1.01	.15	T.				.18	.07	T.	T.					4.18
Lancaster	Lower Susq.		.05		.20						.10		.10	.50		.06		.10	.70	.80		.10				.16		.10						2.97
Lansford	Lehigh				.10						.05		.25	.13			.11	.22	.52	*	.77		.08				.43							2.66
Lawrenceville	N. Br. Susq.		T.		T.		T.				.05		.05	.76		.10	.44		.15	.65	.05				.05	.10	T.		.05					2.40
Lebanon	Lower Susq.			T.		.20				.02			.33	.14		.08	.13	.43	.88	.04	.03					T.		T.						2.28
Lewisburg	W. Br. Susq.		.01				.01	.29			.20			.63		.29	.01	.22	.70	1.15	.20			T.	.12	.31	.05							4.19
Lloyd	do.		.06								.08		.04	.36	.09	.62	.06		.44	.76	.17				.32	.08								3.08
Lock Haven	do.		.23		.02	.12					.08		.72		.34		.16	.99	1.34				.04	.04		.42								4.50
Lykens	Susquehanna		T.		.10	.14					T.		.15	.40		.06		.23	.52	1.28	.03	.05			.02	.40	T.	T.						3.38
Mauch Chunk	Lehigh		.04		.04	.20				.05	.13	.49		.13		.13		.28	.77	.57	.11		.01		.18	.30								3.30
Mifflintown	Juniata		.02		.13	.09				.05	.12	.40	.04	.15			.28	.83	1.80	.01	.01		.01		.09	.32	.01							4.35
Montrose	N. Br. Susq.					T.				.10		.10	.20		.10		.15		.15	.10					.10	.15	.10							1.25
Morris Run	N. Br. Susq.	.04	.04			.06					.27		.48	.02	.18	.25		.42	1.12	.10					.40	.17		.05						3.60
Mount Union	Juniata													T.	.62		.47		.54	.46	*	1.18				.42								

Daily Precipitation for February, 1927—Continued from page 8

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio		.04		.03	.29	.18					.09			.43	.15	.03	.03	.11	.55	.40	.25	.02	.01			.37	.03	.05				3.06	
Beaver Falls|||	Beaver		.02		.03	.37	.12					.05			.43	.14	.06	.06	.05	.65	.70	.15	.02	.02		T.	.28	.05	.03				3.23	
Bradford	Allegheny														.20	.75				.50	.05	.45	.05				.15	T.	.18				3.14	
Brookville	do.	T.		T.		.25				.16					.20	.75				.50	.05	.45	.05				.15	T.	.18				3.83	
Claysville	Ohio			.28		.15					.05	.09			.26	.54				.38	.83	.70	.16	T.		.02	.28		.01	.02				4.21
Cloeff	Allegheny		.05		.06	.43	.22				.05				.14	.76				.93	T.	.92	T.	.11			.24		.08					
Clymer||	Conemaugh		.06	.06		.28	.10					.05		.03	.74	.14	.18		.14	.80	.35	.08	.66	.04		.11	.06	.04					3.32	
Confluence|||	Youghiogheny		.08		.10	.06	1.05	.10				.18			.60	.33		.12	.18	.85	.53	.22	.04				.38	.03	.10				4.95	
Coraopolis|||	Ohio		.02		T.	.35	.26				T.	.07			.45	.11	.02	.09	.16	.70	.65	.20	.03	T.		.07	.01	.42	.34	.50	.02			3.45
Corry	Allegheny		.01	.15		.01	.10				.03	.03		.05	.56	T.	.29	.14	.02		.55	.17	.03	.07		.31	T.	T.					3.47	
Coudersport	do.		.20			.30					.25			.22		.46			*	1.10						.26		*	T.				2.84	
Creekside	Allegheny		.07		.06		.41			.02	.09			*	1.04		.22			.64	.28			.18		.26		*	T.				3.33	
Derry	Conemaugh		.04	.20		.55	.04			T.	.06		.19	*	.81	.02	.12		.33	.58	.76	.11	.06			.30	.05	.05	.05				4.32	
Donora	Monongahela		.26			.56					.10			*	.88	*	.15		.20	.70	.36	.10				.04	.30						3.65	
Ebensburg	Conemaugh		.06			.21	.20				T.				.80		.21		.20	.66	.92	.20				.15	.10	T.					3.71	
Elk Lick	Youghiogheny																									*		.43					4.16	
Falls Creek	Allegheny		.02		.12	.04	.29			.08				*	.98		.45		.12	.45	*	.90		.28		*		.52	.06	.05				2.87
Franklin|||	Allegheny				.05	.08	.13				.06				.48	.09	.04	.18																3.42
Freeport|||	Allegheny		.04		.03	.36	.17				.10				.63	.10	.05	.12	.22	.36	.60	.18	.07	.02			.34		.03					5.13
Greensburg	Youghiogheny		T.	.23		.72	T.			.02	.09			.11	.71	.01	.12		.31	.98	1.17	.31	.03	T.		.20	.06	.06	T.				2.24	
Greenville	Beaver		.04		.23	.07					.03			.10	.41	T.	.10		.38	.16	.10	.03	.06			.41	.05	.07					2.60	
Grove City	Beaver			.04		.40	.26				.05			.13	.33		.10		.22	.22	.13	.08				.37	.13	.13	.01				4.79	
Herrs Isl. Dam|||	Ohio	T.	.02		T.	.34	.34				.06				.67	.08	.04	.03	.29	1.12	.96	.30	.04			.42	.06	.02						
Indiana	Conemaugh																																	4.09
Ingram	Ohio	T.	.02	.02		.67	.03			.01	.05		.21	.46		.06		.44	.49	.90	.17	T.	T.			.50	.02	.03	.01				3.66	
Irwin	Youghiogheny		.27		.72					T.	.11		.19	.46	.01	.19		.17	.41	.47	.24	.03	.01			.38	T.	.11	.12	T.			5.94	
Johnstown	Conemaugh	T.	.02	.20		.80	.05			.02	.08		.10	1.26		.24		.50	1.70	.25	.11	.04	.06	.06		.01	.42	.02	.10				5.80	
Kregar|||	Youghiogheny		.07		.30	.24	.60	T.		.27			.49	.48	.10	.35	1.03	.75	.45	.08	.04					.58	.17	.04					2.36	
Linesville||	Beaver	T.		.03	.06	.12				.02				.10	.29		.12		*	.56	.14	.04	.09			.33	.10	T.					4.41	
Lock No. 4|||	Monongahela		.03		.28	.14	.32				.12				.80	.17	.02	.15	.20	.92	.60	.20	.03	.01		.03	.36	T.	.03					5.67
Lycippus	Conemaugh			.31		.67				T.	.15		.08	.80		.15		.30	1.42	1.35	.14			T.	.13	.06	.11						3.57	
Mount Lebanon	Ohio		T.	.06		.33				T.	.01		.04	.36		.16		1.00	.25	.65	.14	T.				.52		.05	T.				2.39	
New Castle|||	Beaver		.15	.44	.58					.06				.37	T.	.05	.05	.06		.11	.08	.09	.02			.33	T.						4.70	
Newell	Monongahela		.03	.18		.31	.04	T.		T.	.05	.04		.18	.82	.01	.09		.31	1.10	1.08	.15		.01		.20	.07	.02	.01				4.33	
Parkers Landing|||	Allegheny	T.	.03		.15	.05	.50				.10			.30	.35	.05	.25	.02	.80	.60	.20	.30	.18			T.	.35	.10	T.				1.83	
Pennline|||	Beaver	T.					.05	.05	.12	T.	T.				.36	.12	.09				.05	.05		.06	.04		.55	.25	.04					3.97
Pittsburgh***	Ohio		.02		.02		.66			T.	.03	.02		.36	.32		.05	T.	.77	.59	.66	.08	T.			.32	T.	.07	T.					2.38
Ridgway	Allegheny														.02	.49		.23			.31		.06			.13	.21	.47					3.85	
Saegertown|||	Allegheny			.16		.03	.21				.02			.06	.49		.23				.31		.06			.13	.21	.47						1.93
Saltsburg|||	Conemaugh		.05		T.	.34	.07			T.	.07			.48	.17	.01	.09		.17	.95	.53	.36	.15	.03		.01	.35	.02						5.93
Sharon|||	Beaver			.04	.33	.08	T.				.04			.39	T.	.02	T.		.25	.15		.17				.04	.42							
Somerset	Youghiogheny		.18		.95	.15					.22			.10	.70	.10	.10		.12	1.50	1.50	.08		.05		.08	.04	.04	.02					3.88
Springdale|||	Allegheny		.03		.01	.23	.12				.08			.60	.13	.09	.08	.20	.82	.74	.27	.05	.01			.33	.04	.05					5.22	
Uniontown	Monongahela		.07	.33		.37	.17			.04	.17		.06	.75	.06	.09		.40	1.20	.82	.11	T.	.02	T.		.39	.06	.05	.06					5.44
Unity Reservoir||	Youghiogheny		.04	.28		.76	.20				.17		.10	.78	.02	.10		.32	1.60	.35	.03					.16	.13	.11	.05					
Vandergrift	Conemaugh													.08	.10	.34		.64		.03		.80	.25	.08		.30	.10	.28	.06				3.30	
Warren	Allegheny		.03	.03		.18					.08			.10	.34		.64		.03		.80	.25	.08			.30	.10	.28	.06				4.52	
Washington	Ohio	T.		.23		.20					.12	.01		.42	.55		.08	.04	1.12	.51	.70	.02	T.		.05	.45	T.	.02	T.					
Westford|||	Beaver					.19	.22				T.			.37		.22		T.		.26	.12					.04	.20							1.62
West Newton|||	Youghiogheny		.07		.32	.25	.45				.12			.87	.16	T.		.25	.80	.50	.30	.08	T.			T.	.03	.05					4.25	
Zelenople|||	Ohio		.03		.03	.45	.05				.08			.57	.13	.08	.07	.09	.27	.29	.13	.05	.03			.44	.02	.01						2.82
Lake Drainage.																																		
Erie***	Lake Erie	T.		.10	T.	.03	.02				T.	T.	.13	.42	T.	.33	T.	.08		.39	.09	.04			.01	.54	.26	.10	T.				2.54	
West Bingham	Genesee			.15			.08								.35	1.00			.15	.05	.90	.20				.10	.20	.10	.05				3.33	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Blosserville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for February, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	42	48	53	38	28	40	42	45	48	41	37	47	32	34	45	39	56	46	28	27	33	43	49	54	51	39	37	39	.....	41.5
Altoona.....	Minimum	33	33	28	30	25	23	21	25	25	28	29	26	25	26	30	29	30	32	26	19	23	24	25	32	33	31	28	28	.....	27.5
Beaver Dam.....	Maximum	38	44	55	55	33	61	55	49	50	44	36	45	40	33	41	42	62	49	37	27	25	41	48	45	41	37	28	30	.....	42.5
Bradford.....	Minimum	29	36	29	29	27	26	32	23	27	29	20	22	22	26	32	25	31	37	20	21	22	21	34	34	29	23	20	25	.....	26.6
Brookville.....	Maximum	40	48	55	58	40	60	52	49	48	45	31	45	46	55	50	64	66	57	35	36	29	44	51	50	43	42	32	34	.....	46.6
Carlisle.....	Minimum	23	36	25	30	31	37	34	25	27	26	12	27	23	33	34	28	32	28	21	23	20	13	34	27	28	24	22	20	.....	26.5
Catawissa.....	Maximum	40	42	36	37	33	55	40	46	46	.....	.....	42	32	45	37	42	56	40	36	28	27	44	50	49	42	30	33	34	.....	40.1 ^b
Chambersburg.....	Minimum	26	23	19	26	27	32	23	22	21	.....	.....	14	16	29	25	24	29	21	20	21	13	12	29	26	23	22	20	14	.....	22.2 ^b
Clearfield.....	Maximum	42	52	46	55	44	40	46	46	52	47	39	51	45	34	44	40	63	55	42	31	35	46	45	52	45	40	37	39	.....	44.8
Coatesville.....	Minimum	32	34	25	35	25	24	31	24	26	32	27	17	27	28	32	25	30	36	24	22	24	4	33	26	30	30	28	31	.....	27.2
Corry.....	Maximum	43	52	40	41	33	38	44	51	45	45	40	50	33	37	43	40	54	54	35	34	36	48	46	54	47	38	39	38	.....	42.8
Emporium.....	Minimum	30	29	27	22	22	22	29	31	22	29	20	20	21	24	32	23	28	36	21	18	22	11	32	30	24	25	26	25	.....	25.0
Franklin.....	Maximum	41	53	45	60	41	40	47	42	50	41	40	52	43	35	42	47	64	52	41	29	33	41	45	50	43	40	36	37	.....	43.9
Gettysburg.....	Minimum	29	34	26	34	27	26	34	22	24	29	26	22	29	29	32	25	28	38	25	22	24	15	34	23	25	30	26	31	.....	27.5
Greensburg.....	Maximum	42	48	59	59	47	62	60	55	53	48	38	48	45	61	58	69	64	62	34	33	28	51	51	55	45	39	32	36	.....	49.4
Harrisburg.....	Minimum	27	36	27	32	33	43	34	26	24	27	15	28	26	35	31	30	34	26	21	22	18	18	36	32	30	25	21	25	.....	28.0
Hawley.....	Maximum	41	45	51	46	32	60	59	60	58	50	38	43	37	35	43	35	64	54	37	29	31	47	51	56	49	43	33	41	.....	45.3
Huntingdon.....	Minimum	26	28	31	28	24	26	20	22	29	13	27	21	26	23	27	30	34	27	22	26	24	34	34	28	23	15	22	.....	25.4	
Indiana.....	Maximum	42	49	49	54	31	37	42	42	49	45	37	47	36	34	42	42	58	47	41	32	34	46	49	54	53	43	37	38	.....	43.2
Johnstown.....	Minimum	22	34	23	26	22	23	28	21	25	26	21	20	24	28	31	22	29	37	28	24	25	14	34	33	28	30	27	25	.....	26.1
Lancaster.....	Maximum	38	38	47	47	37	44	38	43	40	35	33	30	31	44	46	51	45	29	23	23	41	54	44	37	36	32	32	.....	38.6	
Lawrenceville.....	Minimum	24	28	22	22	22	30	27	24	21	20	16	25	12	27	28	25	37	17	17	16	16	-2	36	23	26	21	22	.....	22.3	
Lebanon.....	Maximum	38	41	52	45	32	48	41	45	46	38	34	38	30	38	44	40	49	40	34	29	28	43	49	42	40	37	38	34	.....	39.8
Lycippus.....	Minimum	30	30	20	28	25	28	27	25	25	27	17	28	14	28	28	19	32	25	21	20	20	6	33	27	34	27	23	23	.....	24.5
Marysville.....	Maximum	41	40	50	32	38	48	36	43	35	29	35	33	29	44	35	53	46	38	23	20	22	43	51	48	40	28	33	32	.....	37.3
Montrose.....	Minimum	27	30	30	25	25	36	30	32	28	23	22	22	19	29	31	36	18	19	17	18	17	17	39	34	27	24	24	26	.....	26.4
Nanticoke.....	Maximum	41	42	52	35	43	46	42	46	44	34	35	38	35	51	38	52	59	35	36	30	24	42	53	44	40	30	33	32	.....	40.4
Oil City.....	Minimum	27	28	23	25	25	30	31	26	24	23	15	18	16	19	32	25	34	34	21	20	19	5	7	23	25	23	21	23	.....	22.9
Pottsville.....	Maximum	38	39	44	48	26	40	38	40	42	38	33	40	32	32	38	37	48	43	34	28	32	48	52	50	48	36	33	33	.....	38.9
Reading.....	Minimum	24	30	22	22	14	18	26	19	25	26	22	20	18	20	28	21	32	28	17	16	16	14	33	30	28	20	17	16	.....	22.2
Scranton.....	Maximum	44	55	55	57	42	36	49	45	52	49	43	54	47	34	47	67	62	43	32	39	44	48	56	51	42	40	39	.....	47.0	
Shenandoah.....	Minimum	28	36	27	37	26	25	32	20	24	30	26	23	28	28	31	25	30	39	25	21	25	22	34	31	30	26	30	.....	28.2	
Uniontown.....	Maximum	44	57	57	57	42	62	48	53	55	47	35	46	41	58	52	66	61	57	32	32	29	46	46	49	44	43	29	32	.....	46.8
Warren.....	Minimum	27	36	31	32	42	42	34	26	28	29	17	28	25	36	36	29	41	32	24	22	21	15	38	35	28	25	22	.....	29.1	
York.....	Maximum	37	37	40	30	41	47	40	43	43	42	41	32	32	50	51	58	58	52	35	35	25	38	46	42	42	39	39	.....	40.9	
.....	Minimum	28	24	30	25	25	32	30	24	24	24	14	23	19	29	30	28	33	23	20	20	18	0	35	24	26	20	19	21	.....	23.9
.....	Maximum	47	46	47	53	39	33	41	44	46	44	39	47	46	33	43	40	58	54	43	32	33	43	44	51	50	43	37	36	.....	43.3
.....	Minimum	32	32	25	33	22	24	31	22	24	20	24	20	24	26	32	24	31	35	29	26	20	19	34	32	27	30	28	25	.....	27.3
.....	Maximum	42	51	57	52	35	38	44	44	50	41	38	50	38	36	44	41	61	45	34	29	34	44	46	53	47	40	37	37	.....	43.1
.....	Minimum	34	38	32	35	24	26	32	29	28	35	29	28	27	28	33	29	41	31	33	32	27	22	34	44	46	39	37	.....	40.2	
.....	Maximum	36	41	44	46	26	33	36	46	43	38	33	40	33	31	33	32	44	43	39	32	22	22	37	37	33	30	29	31	.....	39.3
.....	Minimum	22	33	25	22	15	18	31	14	17	31	24	8	14	23	25	19	28	30	24	19	20	17	32	24	24	27	23	16	.....	22.4
.....	Maximum	42	47	46	61	40	38	47	51	58	48	40	49	44	36	41	46	59	53	39	31	30	48	49	51	42	38	33	37	.....	44.2
.....	Minimum	31	36	22	33	26	26	33	20	28	33	23	17	23	28	34	24	29	38	23	24	23	9	34	23	24	28	25	29	.....	26.4
.....	Maximum	40	44	51	55	36	60	61	53	52	46	33	.....	42	54	52	61	60	57	33	32	.....	48	43	48	45	40	37	30	.....	46.7 ^b
.....	Minimum	27	35	24	29	28	35	32	24	25	27	14	.....	23	32	33	25	36	32	22	.....	12	34	33	25	23	21	24	.....	26.8 ^b	
.....	Maximum	43	45	57	50	42	63	45	54	53	43	36	47	35	55	48	45	62	46	32	27	27	47	48	48	41	33	29	33	.....	44.1
.....	Minimum	33	37	29	32	33	33	34	26	29	31	23	27	28	33	34	29	42	32	26	25	23	26	36	36	31	26	23	26	.....	30.1
.....	Maximum	48	55	54	55	52	50	47	46	53	52	46	54	52	52	49	46	65	64	40	35	37	48	50	57	55	53	50	49	.....	50.5
.....	Minimum	25	32	23	32	22	32	28	22	23	27	28	20	25	25	30	25	24	35	28	23	27	13	33	23	24	28	26	24	.....	26.0
.....	Maximum	37	47	47	52	31	42	47	45	45	44	36	38	29	40	43	40	43	41	26	25	31	46	45	45	44	39	35	36	.....	40.0
.....	Minimum	29	35	25	22	20	25	35	23	25	28	20	16	11	24	33	21	33	23	17	18	17	5	35	20	25	26	25	25	.....	23.6
.....	Maximum	43	50	53	43	31	38	43	46	51	42	38	49	30	33	42	38	61	47	52												

THE HISTORY OF THE
CITY OF BOSTON
FROM THE FIRST SETTLEMENT
TO THE PRESENT TIME
BY NATHANIEL BENTLEY
VOLUME I
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CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII.

MARCH, 1927.

No. 3

GENERAL SUMMARY.

The month, as a whole, was warm and dry, the temperature averaging 4.5° above normal for the State. Most of the excessive heat accumulated from the 5th to the 21st inclusive, the last decade being generally seasonable. During the warm period many kinds of vegetation started to grow, especially in the southeastern counties. Lawns became green and fruit buds started to swell. A return to seasonable temperatures came just in time to check such action and thus to save the fruit crop. The deficiency in precipitation was confined to the eastern half, and to the southern tier of counties in the western half of the State. Elsewhere there was a light to moderate excess. In the southeastern counties the deficiency averaged more than two inches. In other words there was a little more than a third of the normal amount. The snowfall for the month was very light, and was confined chiefly to a few central counties and to the plateau regions in the northeastern part of the State. There was practically no snow in the southeastern counties, and very little in the Ohio watershed. The streams in the Susquehanna and Ohio systems rose sharply at the end of the third week, and neared the flood stages at several stations on the 22d and 23d, but no damage was reported. The month was comparatively free from high winds and blustery weather that are typical of the average March. Wheat and grasses seemed to have wintered well in most sections. Early sown wheat was good without exception, but some of the late sown fields did not become well rooted before winter set in, and were more or less spotted. Pastures rated higher at the close of March in all parts of the State than they did a year ago.

TEMPERATURE.

The mean temperature for the State, as determined from the means of 80 stations, was 42.0°, which is 4.5° greater than the March normal. The highest mean was 46.5° at Philadelphia-Germantown, and the lowest was 34.6°, at Gouldsboro. The highest temperature recorded during the month was 82°, at Hyndman, on the 17th, while the lowest, six degrees below zero, occurred at West Bingham on the 2d. The greatest daily range of temperature was 51° at Catawissa on the 17th.

PRECIPITATION.

The average precipitation, from rain and melted snow, for the State, as deduced from the records of 135 stations, was 2.61 inches, which is a deficiency of 0.93 inch as compared with the State normal for March. The greatest monthly total was 5.43 inches, at Creekside, and the lowest 0.69 inch, at Doylestown. The greatest amount recorded in any 24 consecutive hours was 1.75 inches, on the 21st, at Sharon. Snowfall was light, averaging but 0.7 inch for the entire State. The normal March snowfall is 7.0 inches. The greatest monthly snowfall was 6.5 inches, at Mount Pocono, while the greatest 24-hour fall was 4.5 inches at Cresson, on the 26th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		Date
				8 a. m.	12 noon.	8 p. m.		Average	*Highest	
Erie.....	151.3	370.6	41	74	68	72	9,875	13.3	42	se.
Harrisburg.....	193.4	371.0	52	69	53	56	5,295	7.1	36	n.
Philadelphia.....	191.8	371.0	52	81	76	78	7,393	9.9	42	n.
Pittsburgh.....	153.7	370.8	41	76	64	64	8,859	11.9	44	nw.
Reading.....	152.2	371.0	41	74	55	62	5,060	6.8	29	nw.
Scranton.....	224.3	370.8	60	85	65	70	5,191	7.0	34	w.

* For any five-minute period.

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	0.1 inch or more prec.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....	11
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13	9
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15	16
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16	14
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13	12
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13	11
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12	11
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13	12
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17	14
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12	10
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14	13
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12	11
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14	11
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14	12
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16	14
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6	5
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12	13
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14	13
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13	10
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8	7
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11	12
1917.....	37.3	84	-12	3.68	6.06	1.43	11	12	12	14
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7	8
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9	10
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8	9
1921.....	48.0	88	7	3.33	6.15	1.05	12	9	10	14
1922.....	40.0	81	-5	4.37	6.65	2.30	11	6	14	14
1923.....	37.0	80	-8	2.49	5.21	0.70	13	8	10	11
1924.....	36.1	78	3	2.83	8.97	0.59	12	9	10	9
1925.....	40.9	79	-15	2.56	4.13	1.47	14	6	11	10
1926.....	33.1	79	-16	1.91	3.94	0.58	14	8	9	10
1927.....	42.0	82	-6	2.61	5.43	0.69	13	7	11	10

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis...	Delaware.....	6.1	11.8	15	3.7	4	18
Phillipsburg.....	Delaware.....	7.6	13.0	15	4.5	30	22
Mauch Chunk.....	Lehigh.....	-0.8	1.4	15	-2.2	5	12
Wilkes-Barre.....	Susquehanna.....	11.0	19.2	16	5.2	6	20
Williamsport.....	Susquehanna.....	8.3	15.4	22	4.3	6	20
Harrisburg.....	Susquehanna.....	8.5	13.0	23	5.6	6	17
Freeport.....	Allegheny.....	12.0	21.3	22	6.4	6	22
West Newton.....	Youghiogheny.....	3.5	7.7	9	1.8	31	20
Lock No. 4.....	Monongahela.....	16.7	21.0	22	14.4	28	31
Pittsburgh.....	Ohio.....	16.2	24.0	22	12.6	5	25
Beaver Dam.....	Ohio.....	15.6	29.0	22	9.7	5	30

Climatological Data for March, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr					Precipitation, in inches					No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation of in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	41.8		77	18	20	3	41	1.44	-2.54	0.76		7	18	11	2	n.	John A. Frick.
Altoona	Blair	1,615	40	41.2	+3.9	76	17	13	1	37	3.99	+1.29	0.84	6.0	12	15	3	13	w.	Lewis E. Biller.
Bethlehem	Northampton	295	43	43.9	+4.3	75	16†	19	2†	35	1.30	-2.34	0.31	T.	8	22	1	8	nw.	Lehigh University.
Bustleton	Philadelphia	125	8	44.2		77	17†	15	4	43	1.12		0.33	T.	5	14	4	13	w.	Experiment Station.
Carlisle	Cumberland	467	60	44.0	+6.5	80	17	18	1†	46	2.23	-1.31	0.93	0	6	16	7	8	se	Prof. C. E. Miller.
Catawissa	Columbia	520	30	41.0	+3.4	81	17	15	2†	51	2.14	-0.91	0.53	T.	11	18	4	9		H. H. Yetter.
Center Hall	Center	1,272	31																	S. W. Smith.
Chambersburg	Franklin	580	27	44.0	+5.6	78	17	19	5	43	2.46	-0.54	0.65	T.	8	11	5	15	ne.	William B. Spear.
Clearfield	Clearfield	1,120	17	41.0	+3.5	75	13	14	1	47	4.77	+1.20	1.05	5.0	13	13	8	10	sw.	E. W. Hess.
Coatesville	Chester	380	39																	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	41.8	+1.2	78	17	19	2†	39	2.45	-1.29	0.60	0.2	11	13	5	13	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	39.0	+4.0	74	17	7	2	44	4.48	+0.76	0.81	3.5	11	14	4	13	sw.	T. B. Lloyd.
Ephrata	Lancaster	380	26	43.4	+4.4	78	18	20	2	41	1.39	-2.13	0.31	0	9	12	8	11	nw.	Ira J. Keath.
Freeland	Luzerne	1,970	12	37.2		70	17†	7	2	29	2.94		0.84	5.0	13	9	13	9	nw.	Theo. Reichmann.
George School	Bucks	190	20	42.9	+3.7	76	18	18	1†	44	1.03	-2.43	0.32	0	9	16	6	9	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	53	45.1	+5.9	81	17	18	4	47	1.73	-1.43	0.50	0	9	12	12	7	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	23	39.0	+3.1	76	17	13	5	47	2.83	-1.99	0.59	2.0	10	19	1	11	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	8	34.6		69	17	4	2	42	2.71	-0.55	0.65	3.0	8	16	2	13	s.	Gustav Holtz.
Hamburg	Berks	535	34	41.2	+2.8	76	17	18	3	43	1.63	-2.51	0.49		8	15	10	6	nw.	State Sanatorium.
Hanover	York	600	23	44.2	+2.6	77	17	18	4	36	1.47	-1.68	0.43	0	9	19	6	6	nw.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	43.8	+4.9	78	17	22	2	37	1.98	-1.14	0.68	T.	8	8	15	nw.	U. S. Weather Bureau.	
Hawley	Wayne	900	8	38.0		76	17	5	3	49	2.19		0.93	2.0	8	19	4	8	nw.	J. S. Pennell.
Holtwood	Lancaster	200	12	43.8		75	19	23	4	29	1.00	-2.07	0.38	T.	9	9	12	10		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	42.7	+4.4	80	17	11	1†	48	3.52	-0.04	0.72	1.0	12	11	6	14	e.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	44.7	+4.8	82	17	14	5	50	2.09	-1.26	0.68	1.5	8	9	14			John S. Madore.
Lancaster	Lancaster	255	39	45.4	+7.4	80	18†	18	1†	43	1.83	-1.62	0.45		9	18	9	4	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	38.8	+4.8	76	17	2	2	48	1.60	-0.91	0.37	2.0	7	13	6	12		C. P. Darling.
Lebanon	Lebanon	469	86	42.4	+3.8	78	17	21	2†	41	2.06	-1.78	0.51	T.	8	14	9	8	w.	S. B. Benzing.
Lewisburg	Union	450	52	41.9	+6.6	77	17	15	2†	45	2.77	-0.75	0.98	T.	11	12	8	11	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	43.6	+5.8	76	18	11	2	39	3.24	-0.30	0.78	3.5	9	12	12	7	ne.	Joseph Beaver.
Lykens	Dauphin	680	12	42.3	+2.8	78	17	15	5	44	1.70	-1.17	0.50	T.	10	18	6	7	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	40.8	+4.0	76	17	13	2	47	2.32	-2.18	0.82	T.	9	15	7	9	nw.	R. K. Wintermute.
Millintown	Juniata	445	23	42.6	+4.6	79	17	16	2	41	2.63	-0.53	0.78	T.	10	13	2	16	e.	Wellington Smith.
Montrose	Susquehanna	1,720	24	37.4	+6.3	70	17†	-5	3	34	1.95	-0.76	0.62	3.0	6	10	7	14	w.	Silas Jagger.
Muncy Valley	Sullivan	1,045	15			73	16				2.31	-0.08	0.63		8	12	11	8	sw.	A. H. Boatman.
Narberth	Montgomery	300	8	43.8		77	18	18	4	36	1.34		0.30	T.	11	12	6	13	nw.	Charles Decker.
Neshaminy Falls II	Bucks	60	38	41.4	+1.9	78	18	14	4	45	1.00		0.25	0	7	17	7	7	w.	North Springfield Water Co
Palmerton	Carbon	398	10	41.6		76	17	18	2	44	1.20		0.29	T.	8	21	3	7	sw.	F. G. Breyer.
Philadelphia	Philadelphia	114	56	46.4	+5.6	77	18	23	3	27	1.11	-2.34	0.26	T.	10	10	8	13	n.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	112	2	46.5		77	18	23	3†	30	0.98		0.22	T.	10	12	8	11		Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	44.8		78	18	22	3†	33	1.23		0.44	T.	9					Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	45.9		78	18	23	3†	29	1.34		0.33	T.	10	8	13	10	w.	Atlantic Refining Co
Phoenixville	Chester	100	16	43.2	+2.6	75	17†	18	1†	43	0.80	-2.85	0.25	0	5	17	10	4	nw.	North Springfield Water Co
Quakertown	Bucks	496	42	41.4	+5.1	75	18	18	1†	42	1.23	-2.48	0.43	0	8	11	9	11	nw.	John E. Benner.
Reading	Berks	325	57	44.2	+4.2	78	18	21	3	38	1.40	-2.14	0.43	T.	11	8	9	14	nw.	U. S. Weather Bureau.
Seranton	Lackawanna	805	32	40.0	+4.3	76	17	12	2	40	1.99	-1.13	0.85	T.	10	8	11	12	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	42.0	+3.8	76	17†	16	2	44	3.67	-0.10	0.80	T.	9	17	8	6	sw.	Dr. George E. Fisher.
Shawmont II	Philadelphia	51	31	44.0		76	18†	21	4	32	1.12	-2.55	0.28	0	9	14	8	9	nw.	W. S. Guiles.
State College	Center	1,217	42	41.2	+5.9	77	17	8	3	41	3.62	+0.34	1.07	2.0	12	11	12	8	nw.	C. A. Kern.
Stroudsburg	Monroe	500	.....	.....	.....	75	17†	44	2	47	1.75		0.59	T.	11	17	5	9	nw.	State Normal School.
Towanda	Bradford	754	32	38.1	+3.7	76	17	8	2	48	1.50	-1.25	0.48	2.0	11	7	10	14	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	37.1	+4.4	76	17	2	2	50	1.70	-1.55	0.67	1.0	6	22	0	9	w.	George W. Hill.
West Chester	Chester	455	89	43.2	+4.9	76	18	18	2†	35	0.91	-3.16	0.30	0	10	15	5	11	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	40	41.8	+5.2	75	17	11	2	44	3.05	-0.30	0.92	T.	11	17	6	8	nw.	George A. Beck.
York	York	400	39	44.0	+4.6	80	17	19	4	47	1.54	-1.76	0.75	0	10	14	12	5	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam II	Beaver	700	34	43.4	+1.8	79	19	13	2	41	3.44	-0.11	1.23	0	15	5	5	19	sw.	U. S. Engineer.
Bradford	McKean	1,427	12																	City Engineer.
Brookville	Jefferson	1,173	36	37.6 ^b	+4.7	75 ^b	13†	5 ^b	4	46 ^b	3.35	+0.29	0.75	T.	10	16	5	10		John Fawcett.
Claysville	Washington	1,150	23	45.0	+4.4	78	13	13	4	45	3.38	+0.06	0.90	T.	12	12	4	15	n.	J. L. Melvin.
Corry	Erie	1,430	15	38.4	+6.0	72	17	5	2	41	3.29	+0.02	0.82	2.1	15	13	4	14		Nevin R. Dickson.
Derry	Westmoreland	1,172	30	44.4	+4.3	79	13	16	4	42	4.27	+0.21	0.89	T.	12	12	10	9	w.	Ted R. Wineman.
Donora	Washington	762	1	46.0		77	13†	21	4	39	3.11			T.	10	5	7	18	w.	Donora Zinc Works.
Ebensburg	Cambria	2,000	9	40.0		71	17	11	3	37	4.16		0.75	T.	10	15	7	9	w.	D. H. Jones.
Elk Lick II	Somerset	2,680	10	40.4		74	17	11	4	38	3.80		1.03	2.0	10	13	3	15	w.	J. S. Stevanus.
Franklin	Venango	957	54	38.8	+3.1															

Daily Precipitation for March, 1927

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh						T.	.06	.10	T.						.22					.27	.62	.14					.03	T.				1.44	
Altoona	Juniata						.44	T.	.36						.51				.07	.46	.84	.64				.03		.29	.18		.15	.02	3.99	
Ansonia|||	W. Br. Susq.	T.	T.	T.			.07	.01	.47	.01					.19	.03				.07	.16	1.03	.21	T.		T.		.06	.11	T.	.02	T.	2.44	
Baker's Summit	Juniata						.42	.14							.34					.94	.04	.61						.24			.04		2.77	
Bethlehem	Lehigh						.05								.20					.18	.31	.30						.04	.12		.10		1.30	
Bloersville||	Lower Susq.							.12						.10							.68	.64						.04	.12				1.70	
Bustleton	Lower Del.				T.			T.							.14					.28	T.	.33						.05	T.		.32		1.12	
Carlisle	Lower Susq.						T.		.12						.40				T.		.40	.22	.93						T.		.16		2.23	
Catawissa	N. Br. Susq.						.04	.09	.15						.18				.01		.53	.40	.42	.07				.10		.15			2.14	
Center Hall	Susquehanna																																	
Chambersburg	Potomac						.01	T.	.17						.37				T.	.65	.52	.62	.02				.10	T.			T.		2.46	
Clearfield	W. Br. Susq.						.52	.09	.56	.02					.32					.30	.65	1.05	.65	T.				.40	.08	.09	.04		4.77	
Coatesville	Lower Del.																																	
Colebrook	Lower Susq.						.08	T.	.11						.60					.59	.26	.40	T.					.01	.01		.07	.30	.02	2.45
Conshohocken	Schuylkill						T.		.06						.04					.28	.06	.24		T.				.04	.02	.01		.15		0.90
Cresson|||	Juniata						.50	.32	.03						.37				.10	.80	1.23	.10			.03			.44				.11		4.03
Doylestown	Lower Del.						T.		.13						.07					.14		.06						.03	.05		T.	.19	.02	0.69
Driftwood|||	W. Br. Susq.						*	.30	.45						.30					.20		1.31	T.					.15	.30		.02			3.03
Emporium	do						.72	.05	.65						.38			T.	.41	.31	.52	.81	T.		T.			.45		T.	.10	.08		4.48
Ephrata	Lower Susq.						.05		.09						.31					.22	.11	.21	T.					.05			.07	.28	T.	1.39
Forest City	N. Br. Susq.						T.	.14	.27	T.						.14					.08	.14							.10				.04	1.91
Freeland|||	Lehigh	T.			T.	T.		.17	.20	T.					.05	.46				T.	.48	.84	*	.14				.01	.15	.02	.24	.18		2.94
George School	Lower Del.						T.		.32				T.		.01					.14	.03	.28	.04					.03	.02	T.	T.	.16	T.	1.03
Gettysburg	Potomac						.02			.07					.30					.50	.40	.20						.18	.02		.04			1.73
Girardville|	Susquehanna						.11	.08	.07						.40			T.	T.	.50	.65	.31	T.					.06	.01		.07	.14		2.40
Gordon	Lower Susq.						.22		.14						.34					.41	.22	.59						.06	.05		.09	.21		2.33
Gouldsboro||	Lehigh							.25	.52							.65					.22	.54	.25						.18	.10				2.71
Graterford	Schuylkill						.02		.19						.24					.16								.06			.02	.11	.06	0.86
Hamburg	Schuylkill								.10						.21					.30	.20	.49						.08				.25		1.63
Hamlin	Upper Del.						.15	.15							.25				.07	.52	1.10	.12						.23						2.59
Hanover	Lower Susq.								.15						.17					.43	.30	.20						.08	.06			.06	.02	1.47
Harrisburg**	do		T.				.02	.01	.14						.45				T.	T.	.46	.16	.52	T.					T.	T.	T.	.22		1.98
Harrisburg East	do						.06	.02	.16					.01	.43				T.	T.	.43	.34	.53					.01	T.	T.	T.	.01	.24	2.25
Harrisburg North	do							.02	.16						.38					.34	.11	.44	.21						.02			.23		1.91
Hawley|||	Upper Del.						T.	.06	.15						.24						.28	.93	.16						.23	T.	T.		.14	2.19
Holtwood||	Lower Susq.	T.					.03		.11						.18					.05	.38	.08	.05						.08	T.	T.		.04	1.00
Huntingdon	Juniata						.64	.03	.28						.37				.05	.58	.50	.72						.24	.06	T.	T.	.03	.02	3.52
Hyndman	Potomac						.07	T.	.13						.13					.63	.68	.31	T.		.02			.12						2.09
Lancaster	Lower Susq.								.07						.45						.30	.17	.23					.41		.02	.06	.12		1.83
Lansford|||	Lehigh							.09	.20							.27					*	.90	.09										.15	1.70
Lawrenceville	N. Br. Susq.								.28						.10					.26	.24	.25	.37					.10						1.60
Lebanon	Lower Susq.					.04	.03	.13	T.						.43					T.	.40	.51	.13					T.	T.		T.	.39		2.06
Lewisburg	W. Br. Susq.						.21		.08						.39				.03	.42	.28	.98						.22	.03			.08	.05	2.77
Lloyd	do						.23	.06	.62						.21				.32	.21	.68	.16			T.			.64	.04	.14				3.31
Lock Haven	do						.26		.36						.25				.07	.48	.78	.49						.21		T.	.34			3.24
Lykens	Susquehanna	T.					.06	T.	.15						.39				T.	.33	.08	.50	T.					.02	.02		.03	.12		1.70
Mauch Chunk	Lehigh			T.			.12		.23						.35					.43	.38	.44						.06	.02			.29		2.32
Mifflintown	Juniata						.24		.35						.35				.03	.40	.30	.78						.09	.06			.03		2.63
Montrose	N. Br. Susq.						.09		.31	.04					.40				.10	.30	.28	.62						.25						1.95
Morris Run	N. Br. Susq.						.30	.10	T.						.20				.69	.18	.56	.15	T.		T.			.10	.04		.07			1.83
Mount Pocono	Upper Del.																		T.	.16	.12	.12	T.		T.			.20	.12	.06	.18	.25		1.49
Mount Union|||	Juniata																																	
Muncy Valley	W. Br. Susq.						.15								.52				.01	.47	.63	.37	.01						.15					2.31
Narberth	Lower Del.						.01		.30						.10		</																	

Daily Precipitation for March, 1927—Continued from page 13

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio						.07	.02	.28						.48				.17	.26	.60	1.23	.08	.03		.03	.03	.10	.02			.04	3.44	
Beaver Falls|||	Beaver	T.	T.				.06	T.	.18	T.					.45	T.			.08	.21	.58	1.22	.03	.01	T.	.05	.03	.09	.01	T.		.09	3.10	
Bradford	Allegheny						*	.30	.25						.75				.65	.25	.15	.35					.50		T.		.15	3.35		
Brookville	do.														.44				.50	.90	.30	.41	T.	.01			.13	.03	T.			.05	3.38	
Claysville	Ohio						.20	.02	.39						.51				.50	.90	.30	.41	T.	.01			.13	.03	T.			.17	.08	4.37
Cloet||	Allegheny						.30	.38	.22										.53	.73	.85	.38					.22		T.					
Clymer||	Conemaugh			T.			.40	T.	.53						.44				.44	.52	.93	.79	T.		.02		.29	.12	T.			.07	.22	4.77
Confluence||	Youghiogheny						.08	.08	.50						.22				.09	1.02	.50	.03		.03			.10						2.65	
Coraopolis|||	Ohio	T.	T.				.13	.02	.52	.03					.32	T.			.27	.35	.71	1.42	.05	.01	.01	.02	.06	.08	.05	T.	T.	.07	4.12	
Corry	Allegheny			T.			.22	.06	.22	.01					.54	.05		T.	.36		.82	.47	.01		.02		.40	.07	.01	T.		.03	3.29	
Coudersport	do.						.34	.65							.43				.41		.65	.85					.24						3.57	
Creekside	Allegheny						.35		.79						.57				.57	*	*	2.40	.01		.01			.47	.04			.22	5.43	
Derry	Conemaugh						.33	.06	.33	T.					.54				.31	.89	.51	.58	T.				.35	.08	.03			.26	4.27	
Donora	Monongahela	T.		T.			T.	T.	.40						.59				.33	.34	*	1.26	.05		T.	T.	.07	.01			.06	3.11		
Ebensburg	Conemaugh						.55	T.	.46						.35				.12	.75	.68	.63					.31	.15	T.			.16	4.16	
Elk Lick	Youghiogheny						.18	.10	.74						.40				.05	1.03	.28	.54		.20		.28							3.80	
Falls Creek	Allegheny						.16		.85						.58				.48	.54	.65	.53		.02		.43			.05		.04		4.33	
Franklin|||	Allegheny						.28	.04	.27						.56	.04				.27	.52	1.39	.09		T.		.05	.33	T.			.13	3.97	
Freeport|||	Allegheny						.13	.06	.66						.34				.11	.44	.70	1.40	.05		.05		.08	.20				.06	4.36	
Greensburg	Youghiogheny	T.		.01			.15	.02	.27						.62				.29	.95	.39	.46	.01		T.	T.	.20	.06	T.	T.		.18	3.61	
Greenville	Beaver						.22	.19	.11						.49	.03			.42	.52	.83	.43	.02		.02	.03	.25	.14	.04		.05	T.	3.79	
Grove City	Beaver						.20		.04	.05	T.				.54	T.			.23	.69	.78	.46	T.	.01	T.	.02	.01	.07				.02	.15	3.27
Herr's Isl. Dam|||	Ohio	T.					.27	.02	.29	T.					.23	T.			.29	.40	.75	1.09	.02	.02	T.	T.	.02	.03	T.	T.		.13	3.56	
Indiana	Conemaugh																																	
Ingram	Ohio	.01		T.			.16	.11	.28						.28				.72	.75	.61	.41	.01		.02	T.	.11	.01	.04	T.	.16		3.68	
Irwin	Youghiogheny						.06	.03	.16						.41				.19	.78	.20	.41	.01				.12	.01			.27		2.65	
Johnstown	Conemaugh	T.		T.			.41	.12	.49						.41				.15	.85	.70	.62	T.		.06		.48	.02	.02		.33		4.66	
Kregar|||	Youghiogheny		T.				.24	.08	.64	T.					.49	T.			.17	1.16	.81	.25	T.	.02		T.	.22	.12	.01				4.27	
Linesville||	Beaver			T.			.11		.19						.32				.17	.14	.27	1.15	.02		.06	.06	.07	.06	T.				2.62	
Lock No. 4|||	Monongahela			T.			.15	.04	.20						.61				.10	.29	.85	.53	.12	.02	.01		T.	.10	.02			.06	3.12	
Lycippus	Conemaugh						.37	T.	.52						.80				.25	.93	.33		T.		T.	T.	.30	.10	T.		.15		3.80	
Mount Lebanon	Ohio						.17	.12	.28						.30				.59	.88	.70	.30				.08	.05	T.			.28		3.75	
New Castle|||	Beaver			T.			.20		.16	T.				.01	.55			.20	.04	1.03	1.08	.01	T.		.03	.09	.07	.01	.03		.02	.03	3.55	
Newell	Monongahela	T.					.25	.01	.17						.80				.25		.34	.31					.11	.03	T.		.05	T.	2.92	
Parkers Landing|||	Allegheny	T.		T.			.15	T.	.36	T.					.35	T.			.03	.30	.60	1.20	.10		T.	T.	.35	T.	T.		.13	3.57		
Pennline|||	Beaver	T.					.19	.02							.45				.19	.17	.30	1.09	.03	T.	.02		.08	.06	.03	T.		.03	2.66	
Pittsburgh***	Ohio	T.		T.		T.	.14	.13	.09					T.	.24				.59	.74	.82	.21	T.	T.	.01		.06	.02	.04		.11		3.20	
Ridgway	Allegheny																		.31		.99	.48					.27	.04					2.60	
Saegertown|||	Allegheny						.07	.04	.03						.37	T.			.29	.20	.70	.98	.20	T.	T.		.03	.05	.20		.18	3.92		
Saltsburg|||	Conemaugh						.21	.05	.38						.45	T.			.35	.06	.75	1.75	.05		T.	T.	.20	.06			.31	4.29		
Sharon||	Beaver						.16		.15						.39	T.			.08	.51	.12	.10	T.		T.		.12	T.	T.		.08		1.90	
Somerset	Youghiogheny		T.	T.			.14		.15						.60																			
Springdale|||	Allegheny		.01				.17	.04	.58	.01					.34				.24	.34	.62	1.48	.06	.01			.04	.13	T.				4.07	
Uniontown	Monongahela	T.					.15	.03	.27						.62				.15	1.28	.26	.66	T.				.20	.05			.03		3.70	
Unity Reservoir||	Youghiogheny						.23		.40						.69				.32	.88	.52	.55					.28	.10			.20		4.17	
Vandergrift	Conemaugh						.22		.72						.48				.56	.54	.15	.26				.02	.16		.12		.37	.10	3.70	
Warren	Allegheny							.06	.54						.47				.36		1.20	.68			.04		.20	.02	.08		.08		3.73	
Washington	Ohio	T.					.07	.13	.22	.17					.38				.54	.93	.44	.17	T.			.08	.03			.04			3.20	
Westford|||	Beaver							.05		T.					.35				.25						T.	T.							2.27	
West Newton|||	Youghiogheny						.15	.03	.25						.73				.08	.24	.85	.62	.10	T.		T.		.10	.03			.10	3.28	
Zellenople|||	Ohio						.10	T.	.29	T.					.42	.02			.28	.20	.80	1.29	.02	T.	T.	.05	.05	.07	.03	T.		.23	3.85	
Lake Drainage.																																		
Erie***	Lake Erie	T.		T.			.19	.04	.04						.26	.28			T.	.25		.72	.24	T.		.01		.15	T.	.01		.01	2.25	
West Bingham	Genesee						.10		.55						.44				.40	T.	.83	.52	T.				.29		T.				3.13	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Blossville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for March, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	38	36	28	41	51	43	52	51	49	51	61	61	69	58	58	68	75	77	59	52	47	41	44	37	51	43	40	52	51	52	60	51.5
	Minimum	23	21	20	21	23	31	37	42	35	27	27	30	32	46	44	33	36	36	44	41	38	38	26	27	27	31	34	28	29	32	35	32.1
Altoona.....	Maximum	32	35	30	38	50	45	50	47	47	56	63	65	71	68	55	69	76	64	60	47	57	50	39	38	48	45	44	42	49	47	57	50.9
	Minimum	13	16	17	15	28	32	35	34	25	23	30	35	44	42	40	33	39	47	43	40	44	32	24	27	28	30	33	32	29	30	40	31.6
Beaver Dam.....	Maximum	33	33	31	43	51	49	49	55	45	62	71	73	76	74	66	71	74	73	79	53	58	47	45	43	50	54	44	43	50	51	56	54.9
	Minimum	23	13	17	17	18	36	32	35	25	24	30	38	45	43	43	31	36	41	40	40	44	33	29	33	30	36	33	30	24	34	35	31.9
Bradford.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brookville.....	Maximum	35	34	27	40	47	.....	48	46	44	59	62	70	75	59	45	67	75	63	51	45	57	37	42	40	.....	51	47	42	49	47	57	50.4 ^b
	Minimum	12	6	12	5	6	.....	31	29	20	19	26	27	36	40	27	24	29	34	31	35	33	23	20	28	.....	27	28	29	20	29	29	24.7 ^b
Carlisle.....	Maximum	38	36	35	43	52	48	55	53	50	58	64	64	71	68	62	71	80	78	68	52	52	49	48	45	55	53	48	48	52	47	65	55.1
	Minimum	18	18	22	20	24	34	36	42	31	23	26	30	47	50	44	32	34	52	49	47	41	37	26	30	24	38	30	25	28	28	30	32.8
Catawissa.....	Maximum	39	37	26	43	53	40	54	57	50	56	67	65	72	62	56	68	81	74	51	47	48	48	43	45	50	49	43	55	55	50	63	53.1
	Minimum	18	15	15	18	17	31	32	36	29	21	24	29	42	57	40	27	30	47	38	38	39	25	22	19	22	25	25	21	32	27	33	28.8
Chambersburg.....	Maximum	34	37	35	43	54	45	56	55	51	58	64	63	71	66	62	69	78	74	69	52	54	42	44	43	55	50	47	51	50	46	64	54.6
	Minimum	20	20	22	20	19	35	37	44	32	24	25	30	44	49	45	32	35	49	47	48	43	37	29	31	28	31	38	30	32	30	32	33.5
Claysville.....	Maximum	34	35	32	42	51	49	51	55	44	67	75	74	78	75	61	76	77	64	66	63	48	40	46	54	54	42	46	54	54	63	52	53.6
	Minimum	22	18	15	13	21	37	32	31	24	24	36	47	56	42	41	31	42	48	49	46	45	32	29	34	31	38	32	32	20	33	42	33.6
Clearfield.....	Maximum	41	43	34	45	52	45	41	48	51	56	70	67	75	65	52	60	72	67	62	47	61	52	43	48	52	46	52	52	51	50	62	53.6
	Minimum	14	15	15	17	15	32	34	31	24	28	26	31	28	42	41	31	27	45	26	26	42	35	26	30	26	26	33	31	30	28	30	28.5
Coatesville.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corry.....	Maximum	30	28	23	37	47	48	42	48	42	59	70	68	70	61	42	68	72	63	60	53	52	38	46	41	47	43	44	39	47	48	50	49.1
	Minimum	16	5	12	6	17	33	33	31	20	21	32	41	50	38	35	27	35	33	27	30	35	29	19	30	29	30	30	29	22	31	31	27.6
Emporium.....	Maximum	31	34	27	39	46	43	48	45	44	54	63	63	71	62	45	64	74	68	50	47	59	41	43	43	48	38	45	42	47	53	55	49.5
	Minimum	18	7	18	10	10	33	35	25	20	25	30	38	43	37	31	30	42	32	35	41	30	20	30	31	28	32	29	25	28	35	28.5	
Erie.....	Maximum	27	28	24	34	47	41	51	41	36	52	70	71	71	54	45	64	72	58	51	34	39	36	36	39	40	46	38	47	42	55	46	46.0
	Minimum	16	13	17	18	31	35	36	33	27	28	44	49	52	37	38	38	52	38	34	31	33	27	24	32	31	32	32	31	29	40	37	32.7
Franklin.....	Maximum	31	30	25	43	50	47	52	40	45	62	69	71	74	45	48	69	73	63	50	58	57	37	47	40	50	49	44	42	49	50	55	50.5
	Minimum	19	10	13	15	17	18	31	31	21	20	21	30	38	41	39	28	29	33	32	34	37	32	20	23	31	32	32	31	22	25	35	27.1
Freeland.....	Maximum	28	28	20	32	45	43	47	43	42	48	54	57	64	58	50	60	70	62	52	50	44	41	38	43	38	37	45	46	46	52	46.9	
	Minimum	16	7	10	10	20	32	33	33	24	19	27	33	42	42	34	33	42	53	36	37	33	28	14	18	19	24	29	23	23	27	33	27.5
Gettysburg.....	Maximum	42	34	36	44	57	46	57	55	54	57	64	64	71	69	64	74	81	78	71	52	56	53	47	45	55	54	47	52	51	50	68	56.4
	Minimum	20	30	21	18	25	34	37	36	31	25	26	31	45	59	43	32	34	51	50	49	42	37	29	30	25	31	37	29	31	29	31	33.8
Greensburg.....	Maximum	30	34	29	38	50	47	52	53	45	63	72	74	77	69	54	70	76	71	62	68	59	49	42	44	50	52	41	42	48	49	59	53.8
	Minimum	24	18	19	18	23	35	36	37	27	28	38	46	55	43	42	30	40	52	48	46	49	32	31	33	32	36	33	31	27	35	42	35.0
Grove City.....	Maximum	30	28	28	38	45	45	44	43	41	47	64	68	67	64	47	65	65	64	57	49	54	41	40	42	46	46	41	41	46	49	50	48.5
	Minimum	19	14	14	14	15	35	30	31	22	24	40	42	50	40	39	29	33	41	41	38	40	30	21	30	23	32	30	30	23	36	34	30.3
Hamburg.....	Maximum	37	35	30	41	50	49	51	50	53	53	61	66	68	60	58	67	76	74	70	51	45	46	42	37	48	47	42	48	49	49	59	52.0
	Minimum	22	20	18	20	29	31	31	33	32	22	24	28	34	38	43	29	33	51	41	37	37	38	24	26	23	27	29	23	34	28	37	30.4
Harrisburg.....	Maximum	34	34	31	42	51	45	54	50	48	53	61	62	68	58	58	69	78	72	61	52	50	50	42	40	51	42	45	48	48	47	65	51.9
	Minimum	25	22	23	22	29	37	40	41	36	30	32	36	44	49	45	36	41	57	49	44	40	36	28	30	29	34	36	30	36	35	38	35.8
Hawley.....	Maximum	35	33	31	34	45	44	47	47	43	54	64	63	65	63	52	65	76	74	63	48	41	46	46	40	50	46	43	48	51	49	54	50.3
	Minimum	20	8	5	12	12	24	34	36	31	15	18	23	38	46	37	23	27	46	30	34	34	15	20	17	24	31	21	26	23	32	25.7	
Huntingdon.....	Maximum	36	39	32	42	52	45	55	49	49	59	64	64	72	68	57	68	80	78	66	51	57	55	44	42	53	46	48	48	51	46	51	54.1
	Minimum	11	17	20	19	11	33	35	40	30	21	24	29	42	46	44	30	32	47	42	45	36	24	31	26	30	37	29	33	27	35	31.3	
Indiana.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum	33	36	29	40	51	44	57	52	47	63	69	70	74	63	53	70	77	65	65	62	49	42	42	52	52	43	53	54	45	61	54.0	
	Minimum	26	19	20	19	19	34	37	40	29	27	31	36	45	45	43	33	36	51	51	48	44	33	32	33	35	35	30	31	42	34	34.5	
Lancaster.....	Maximum	45	40	46	46	60	58	58	57	52	59	64	66	70	70	68</																	

THE
FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE
WASHINGTON, D. C. 20535

UNF

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII. APRIL, 1927. No. 4

GENERAL SUMMARY.

The temperature averaged near the normal in the Ohio basin, while there was a moderate deficiency at most places in the central and eastern portions of the State. The precipitation was nearly normal with about the usual April snowfall. In the northern tier of counties and on the higher plateau regions the snowfall was generally in excess of 2.0 inches, with 6.0 inches reported from Altoona and 8.0 inches from Coudersport. Most of the snow fell on the 2d or the 4th, and did not remain long on the ground. Vegetation was slow in starting, especially in the southeastern counties where a good early growth is usually made in April. However the moderate temperature deficiency that persisted during the first ten days was probably beneficial rather than otherwise as it delayed the blooming of orchard fruits. Severe frosts near the end of the month did considerable damage, especially on poorly drained lands. The weather conditions were favorable for wheat and it improved steadily throughout the entire month. Many fields that appeared to be very spotted at first were fairly well covered at the end of the month. Oats seeding was well advanced in the southern counties at the close of the month, and the first sown fields were coming up nicely, while seeding was getting well under way in the central counties. Wet soil delayed the planting of early field potatoes, and many of the truck crops, but early garden potatoes were coming up at the close of the month. Pastures and meadows were generally a little backward, but were otherwise good except clover that was spotted in some sections. Alfalfa seemed to be good in all parts of the State. Corn ground was being prepared for planting in the southern counties.

TEMPERATURE.

The mean temperature for the State, as determined from the means of 80 stations, was 47.7°, or a deficiency of 1.1° as compared with the April normal. The highest mean was 52.0°, at Newell, and the lowest was 41.2°, at Gouldsboro. The highest temperature recorded during the month was 92°, at Vandergrift, on the 19th, while the lowest for the month, 17°, was recorded at Brookville on the 11th. The greatest daily range was 53° at Huntingdon on the 12th.

PRECIPITATION.

The average precipitation, from rain and melted snow, as shown by reports from 134 stations, was 3.52 inches, or 0.15 inch more than the State normal for April. The greatest monthly total was 5.59 inches at Gettysburg, and the least was 1.65 inches, at Wilkes-Barre. The greatest amount recorded in any 24 consecutive hours was 2.65 inches, at Bustleton, on the 21st-22d. Snowfall for the State averaged 1.0 inch, which was 1.8 inches less than the normal amount for the month. The greatest monthly snowfall was 8.0 inches, at Coudersport, at which station 5.5 inches fell on the 2d.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent				Velocity, in miles per hour			
				8 a m	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	197.6	440.1	45	68	61	67	10,243	14.2	64	se.	5
Harrisburg.....	199.1	398.6	50	65	54	52	5,491	7.6	36	sw.	21
Philadelphia.....	223.0	398.6	56	77	71	71	7,191	10.0	40	ne.	27
Pittsburgh.....	225.3	399.9	56	69	56	54	8,631	12.0	42	nw.	6
Reading.....	141.0	398.6	35	60	48	53	5,127	7.1	29	sw.	21
Scranton.....	261.3	399.9	65	77	63	66	5,330	7.4	36	se	26

* For any five-minute period.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6	8
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11	11
1890.....	48.6	85	12	3.46	5.50	1.75	13	9	8	8
1891.....	49.8	87	11	2.08	3.54	1.12	10	10	10	10
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13	14
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12	10
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10	8
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9	10
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13	12
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6	5
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16	11
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12	9
1903.....	48.8	90	12	3.53	4.93	2.16	11	7	12	10
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14	13
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10	12
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8	9
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13	11
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10	12
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11	13
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11	13
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12	13
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13	15
1913.....	50.6	90	17	3.82	9.23	1.46	12	6	12	11
1914.....	47.3	93	5	4.66	7.50	1.90	10	8	12	14
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7	8
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12	14
1917.....	48.5	87	14	2.08	4.89	0.41	11	10	9	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11	14
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10	11
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12	16
1921.....	55.3	96	10	3.11	5.06	1.12	13	7	10	11
1922.....	50.1	91	11	3.17	6.10	1.28	12	9	9	12
1923.....	48.3	89	-5	2.94	5.89	1.00	14	8	8	9
1924.....	46.5	82	6	4.15	7.52	1.77	13	7	10	12
1925.....	51.3	96	9	2.32	4.89	0.93	15	7	8	10
1926.....	44.9	84	9	2.03	4.85	0.85	12	9	9	9
1927.....	47.7	92	17	3.52	5.69	1.65	12	7	11	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.8	4.5	29	3.0	21	18
Phillipsburg.....	Delaware.....	3.6	4.7	26	2.9	12	22
Mauch Chunk.....	Lehigh.....	1.9	0.9	23	2.5	18	12
Wilkes-Barre.....	Susquehanna.....	6.1	8.9	8	4.0	18	20
Williamsport.....	Susquehanna.....	5.4	8.0	8	2.7	21	20
Harrisburg.....	Susquehanna.....	5.8	7.2	30	4.6	21	17
Freepot.....	Allegheny.....	7.8	12.8	7	5.1	18	22
West Newton.....	Youghiogheny.....	3.1	7.9	31	1.8	1	20
Lock No. 4.....	Monongahela.....	16.8	21.6	11	14.2	18	31
Pittsburgh.....	Ohio.....	14.0	17.4	3	11.8	20	25
Beaver Dam.....	Ohio.....	11.5	16.7	8	8.5	21	30

Climatological Data for April, 1927

Station	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	48.2	.....	88	20	28	10	37	3.18	-0.66	1.43	.....	12	18	8	4	ne.	John A. Frick.
Altoona	Blair	1,615	40	45.7	-2.5	78	21	22	11	41	4.51	+1.64	0.90	6.0	18	12	4	14	w.	Lewis E. Biller.
Arendtsville	Adams	700	.....	47.2	.....	85	21	26	25	41	4.30	.....	1.10	T.	17	15	4	11	n.	S. W. Frost.
Bethlehem	Northampton	295	43	48.0	-3.9	86	20	22	14	39	1.96	-1.19	1.21	.....	8	18	5	7	nw.	Lehigh University.
Bustleton	Philadelphia	125	8	49.4	.....	90	20	27	10	38	4.04	.....	2.65	T.	8	15	4	11	nw.	Experiment Station.
Carlisle	Cumberland	467	60	49.8	-2.4	87	20	26	12	48	4.67	+1.34	1.74	T.	15	13	5	12	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	46.6	-4.7	87	20	23	8	49	3.54	+0.13	1.42	T.	11	19	1	10	.....	H. H. Yetter.
Center Hall	Center	1,272	31	42.9	-6.0	86	20	19	8	43	4.44	+1.30	2.00	1.5	11	17	4	9	.....	S. W. Smith.
Chambersburg	Franklin	580	27	48.2	-1.6	84	20	25	12	45	5.09	+2.25	1.44	0.6	17	9	7	14	n.	William B. Spear.
Clearfield	Clearfield	1,120	17	48.0	-0.3	83	18	21	11	52	5.22	+1.81	1.35	3.0	15	12	8	10	nw.	E. W. Hess.
Coatesville	Chester	380	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	46.6	-3.3	84	20	25	14	42	4.67	+0.70	1.49	1.0	14	11	4	15	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	44.4	-2.7	78	16	18	11	48	4.01	+0.68	0.95	0.2	11	12	9	9	e.	T. B. Lloyd.
Ephrata	Lancaster	380	26	48.6	-1.4	86	20	28	12	41	3.45	-0.10	1.58	T.	12	11	6	13	ne.	Ira J. Keath.
Freeland	Luzerne	1,970	12	43.2	.....	80	20	20	8	37	3.93	.....	1.30	5.4	12	8	13	9	nw.	Theo. Reichmann.
George School	Bucks	190	20	49.4	-0.7	90	20	26	10	47	2.39	-1.21	1.32	T.	8	15	6	9	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	53	50.0	-0.4	90	20	28	25	42	5.59	+1.99	2.06	2.0	16	8	10	12	ne.	Col. E. B. Cope.
Gordon	Schuylkill	840	23	45.6	-2.3	82	20	20	10	48	3.40	-1.26	1.70	4.0	9	10	9	11	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	3	41.2	.....	75	20	20	8	38	1.89	-2.81	0.70	5.0	8	22	2	6	w.	Gustav Holtz.
Hamburg	Berks	535	34	47.0	-3.4	86	20	23	14	42	3.51	-0.74	1.82	0	8	12	8	10	w.	State Sanatorium.
Hanover	York	600	23	48.6	-4.4	84	20	29	24	37	5.53	+2.24	2.22	T.	17	15	4	11	n.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	49.1	-1.8	84	20	33	2	32	2.82	+0.33	0.92	T.	13	6	7	17	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	8	44.8	.....	81	20	20	1	47	2.57	.....	0.61	.....	9	17	6	7	.....	J. S. Pennell.
Holtwood	Lancaster	200	12	49.4	.....	82	21	34	10	27	3.51	+0.80	1.60	T.	13	13	8	9	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	47.6	-2.0	81	20	21	12	53	4.47	+1.10	1.02	1.5	17	11	6	13	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	48.7	-2.2	85	20	23	25	51	4.42	+0.85	0.78	T.	16	5	8	17	.....	John S. Madore.
Lancaster	Lancaster	255	39	49.5	-1.3	88	20	24	12	49	3.60	+0.06	1.82	T.	13	15	8	7	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	45.1	-0.7	80	18	21	14	46	2.39	-0.75	0.80	4.5	7	14	8	8	.....	C. P. Darling.
Lebanon	Lebanon	469	86	47.9	-2.6	85	20	29	14	40	3.94	+0.57	1.84	T.	9	17	1	12	e.	S. B. Benzing.
Lewisburg	Union	450	52	48.4	+0.2	87	20	23	12	49	3.24	-0.28	1.17	4.0	10	10	6	14	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	50.4	+0.1	88	20	24	8	49	4.25	+0.87	1.71	.....	9	8	14	8	sw.	Joseph Beaver.
Lykens	Dauphin	680	12	48.0	-2.7	85	20	22	10	48	3.53	+0.26	1.80	T.	10	13	9	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	46.6	-2.2	86	20	23	10	45	3.69	-0.23	1.71	T.	10	13	6	11	nw.	R. K. Wintermute.
Mifflintown	Juniata	445	23	48.0	-1.8	83	20	24	12	48	3.12	-0.79	0.63	1.0	14	15	4	11	e.	Wellington Smith.
Montrose	Susquehanna	1,720	24	45.0	+0.9	80	20	20	14	43	2.76	-0.74	1.35	2.0	6	16	4	10	s.	Silas Jagger.
Muncy Valley	Sullivan	1,045	15	.....	.....	80	20	.....	.....	.....	2.95	-1.58	0.32	.....	7	9	14	7	w.	A. H. Boatman.
Narberth	Montgomery	800	8	48.4	.....	89	20	28	14	34	2.91	.....	1.21	T.	12	14	6	10	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	38	46.8	-3.3	91	20	23	10	47	3.25	.....	1.80	0	9	16	7	7	w.	North Springfield Water Co.
Palmerton	Carbon	398	10	46.0	.....	87	20	24	10	42	2.86	.....	1.42	.....	10	17	7	6	nw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	50.9	-1.2	89	20	34	8	30	3.66	+0.75	2.20	T.	12	12	4	14	sw.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	113	2	50.9	.....	90	20	32	8	32	3.35	.....	2.07	T.	10	15	4	11	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	49.8	.....	90	20	33	5	35	6.79	.....	2.41	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	50.4	.....	89	20	34	8	32	3.83	.....	2.21	T.	12	11	8	11	e.	Atlantic Refining Co.
Phoenixville	Chester	100	16	48.8	-3.4	88	20	25	2	40	2.63	-0.86	0.91	T.	9	15	8	7	ne.	North Springfield Water Co.
Quakertown	Bucks	496	42	46.5	-1.9	84	20	23	10	43	3.04	-0.19	1.44	T.	10	13	9	8	nw.	John E. Benner.
Reading	Berks	325	57	49.4	-0.9	87	20	34	8	32	2.73	-0.49	1.17	T.	12	6	10	14	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	45.9	-2.2	79	21	27	8	35	2.35	-0.30	1.28	1.7	9	9	11	10	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	47.6	-2.3	79	21	25	12	43	3.56	+0.02	1.20	T.	9	14	6	10	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	49.8	.....	84	20	20	11	37	2.31	-0.86	1.00	0	12	16	4	10	nw.	W. S. Guiles.
State College	Center	1,217	42	46.8	-0.9	80	21	25	8	44	3.93	+0.65	0.94	2.2	14	5	16	9	nw.	C. A. Kern.
Stroudsburg	Monroe	500	.....	47.4	.....	83	20	22	25	42	3.03	.....	1.40	T.	11	18	6	6	nw.	State Normal School.
Towanda	Bradford	754	32	44.3	-2.3	79	18	22	12	46	2.80	-0.13	1.52	2.0	8	9	12	9	n.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	43.4	-1.2	77	16	19	12	51	2.30	-1.28	0.60	3.5	7	20	0	10	ne.	George W. Hill.
West Chester	Chester	455	89	48.2	-1.5	88	20	25	1	35	4.38	+0.60	2.44	T.	12	14	8	8	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	40	47.2	-1.4	84	20	25	12	46	4.03	+0.65	1.40	1.5	10	13	7	10	nw.	Miss Veronica E. April.
York	York	400	39	48.6	-2.1	87	20	23	12	50	4.50	+1.47	1.90	T.	15	11	9	10	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	50.0	-0.1	85	19	20	23	43	3.27	+0.14	0.73	.....	20	4	9	17	ne.	U. S. Engineer.
Bradford	McKean	1,427	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	City Engineer.
Brookville	Jefferson	1,173	36	43.0	-2.8	80	18	17	11	52	2.95	+0.09	1.01	T.	8	20	4	6	.....	John Fawcett.
Butler	Butler	1,152	2	.....	.....	.....	.....	.....	.....	.....	3.33	.....	0.78	T.	17	9	0	21	w.	Foraker Ferrell.
Claysville	Washington	1,150	23	51.5	+0.9	86	19	21	11	48	4.25	+0.76	0.60	0.8	17	11	6	13	s.	J. L. Melvin.
Corry	Erie	1,430	15	45.3	+0.3	82	18	21	8	44	3.79	+0.39	0.68	4.2	14	11	10	9	.....	Nevin E. Dickson.
Derry	Westmoreland	1,172	30	49.4	+0.1	84	19	23	11	44	4.35	+0.63	0.74	T.	17	11				

Daily Precipitation for April, 1927

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh		.25	.11	.01	.02	.11	.14							.02			.27			T.		1.15	.28				.17	.65				3.18
Altoona|||	Juniata	.50	.80	.10	.13	.40	.01	.10		.15					.16			.11	.40		.24		.02	.02	.01	.43	.90	.03					4.51
Ansonia|||	W. Br. Susq.		.47	.13		.09	.08	T.										.07	.02		.01	.71		T.	.01	T.	.53	.39				2.51	
Arendtsville.	Potomac		.95	.15	.12	.01	.15			.02	.10				.18			.15			.25	.02	1.10	.22			.12	.45	.01	.30		4.80	
Baker's Summit.	Juniata	.50	.46	.15	.10		.20			.41					.19		.17			.32							.14	.44		.35	.19		3.62
Bethlehem	Lehigh	.12				.08	.06											.12				1.21	.08				.12	.17				1.96	
Bloersville||	Lower Susq.	.36	.40	.16	.09					.20				.05				.12		T.		1.53					.15	.70			.12		3.88
Bustleton	Lower Del.		.27			.11								.07			.09					2.65	.05			T.	.46	T.		.34		4.04	
Carlisle	Lower Susq.	.18	.46	.19	.14	.06				.14				.16				.55	.06			1.74					.32	.37	.02	.10		4.67	
Catawissa	N. Br. Susq.	.04	.52	.01	.04	.20				.08				T.			.18					.88	.54	T.				.28	.77			3.54	
Center Hall	Susquehanna	T.	.68	.20	.12	.42	.11	.10										.08				2.00	.15			T.	.22	.36				4.44	
Chambersburg	Potomac	.59	.36	.06	.07	.03	.06	T.		.32				.21				.34		.06	.03	.65	.79				.10	.49		.08	.85		5.09
Clearfield	W. Br. Susq.	.02	1.35	.16	.20	.76	T.	.17									.26	.20		.38	.06	.34	.45	T.		.06	.23	.58				5.22	
Coatesville	Lower Del.																																
Colebrook	Lower Susq.	.05	.03	.45	.03	.25		.02		.09				.10				.39		T.		.54	.95			T.		1.28	.42			.13	4.67
Conshohocken.	Schuylkill	.06	.30																									.26	.28			.25	2.68
Cresson|||	Juniata	.61	.24		.26	.23	.11			.27				.16								.03	1.03	.35				.52	.78				4.15
Doylestown	Lower Del.		.27			.30	.02	.02						T.				.20				1.81					T.	.58			.05		3.25
Driftwood|||	W. Br. Susq.	T.	.95	.25		.35	.10							.28				.34			1.00		.60			T.	.60	.59				5.06	
Emporium	do.	.12	.73	.08	T.	.55	T.										.16			.08		.30	.30	T.	T.	.03	.95	.71				4.01	
Ephrata	Lower Susq.	.01	.47	.02	T.	.18	.10	T.						.08				.26				.03	1.58				.10	.54	T.		.08	3.45	
Forest City	N. Br. Susq.		.28			.42	.04	.03														1.01	.11			.03	.12	.20	.25			2.49	
Freeland|||	Lehigh		.21	.32	.04	.02	.14	.04										.14			T.		1.30	.53	T.		.03	.45	.71			3.93	
George School	Lower Del.		.07			.04	.06							T.				.09				.02	1.32				T.	.70			.09	2.39	
Gettysburg	Potomac	.65	.22	.18	.08	.06	.14			.25				.22				.16		.02		.20	2.06				.09	.40		.04	.82		5.59
Girardville	Susquehanna	.32	.11		.06	.16	.15							.04			.15					.50	1.13			T.	.57	.54				3.73	
Gordon	Lower Susq.		.42	.14	.08	.08	.04	.18													.18							.58				3.40	
Gouldsboro||	Lehigh		.19			.12								.12								.54	.16				.15	.25	.36			1.89	
Graterford	Schuylkill	.21	.16		.08	.11												.09				1.34					.11	.86			.03	2.99	
Hamburg	Schuylkill		.28		.12	.08		.11										.22				1.82					.32	.56				3.51	
Hamlin	Upper Del.	.55		.30		.20											.01					.50	.67				.22	.55				3.00	
Hanover	Lower Susq.	.70	.20	.13	.03	.02	.19			.13				.20				.21		.02	.04	.18	2.22					.44		.07	.75	5.53	
Harrisburg**	do.	.18	.33		.03	.06	T.			.02				.13			.49			.01		.32	.60			T.	.16	.41			T.	.08	2.82
Harrisburg East.	do.	.12	.26	.17	.05	.05	.04			.04				.13				.40		.02		1.15					.18	.49			T.	.10	3.20
Harrisburg North.	do.	.30	.19	.05	.11	.04				.03							.11	.41			.03	1.34	.17				.22	.44		.04		3.48	
Hawley|||	Upper Del.		.40	.03		.35	.07										.03					.61			.40			.11	.57			2.57	
Holtwood||	Lower Susq.	.01	.38	.20		T.	.16	T.			.04				.13			.19				.16	1.60	.24			T.	.18	.18	T.	.04	3.51	
Huntingdon	Juniata	.15	.82	.06	.12	.39	T.	.06		.19				.16				.04		.22	.02	.61	.40	.01	T.		.19	1.02	.01			4.47	
Hyndman	Potomac	.78	.27	.04	.19	.11	T.	.10		.46				.24				.01		.10		.15	.61	T.	T.		.02	.25		.34	.75	4.42	
Lancaster	Lower Susq.	.30	.20		.15	.03				.03				.08				.10				.06	1.82				.20	.23		.03	.37	3.60	
Lansford|||	Lehigh	.20		*	.12		.07	.09	T.													1.21	.29					.39	.42			2.79	
Lawrenceville	N. Br. Susq.	.05	.42	T.		.18												T.		T.		T.	.80			.10	.52	.32				2.39	
Lebanon	Lower Susq.	.20	.13	T.	.08	.03				T.							.87					1.62	.22			T.	.24	.55			T.	3.94	
Lewisburg	W. Br. Susq.	T.	.56	.12	.14	.20	.05							.05				.03				1.17					.30	.62				3.24	
Lloyd	do.																																
Lock Haven	do.		.84	.23		.35	.08											.08		.03			1.71				.32	.61				4.25	
Lykens.	Susquehanna	.27	.13	.04	.04	.02								.02				.37		T.			1.80				.25	.59				3.53	
Mauch Chunk	Lehigh	.40	T.	.02	.12	.14	.14											.15				.32	1.39				.37	.64				3.69	
Mifflintown	Juniata	.04	.63	.07	.05	.30	.01			T.				.12				.10		.16	.03	.23	.56		T.		.27	.55				3.12	
Montrose	N. Br. Susq.		.29			.20											.13											.56	.32				2.76
Morris Run	N. Br. Susq.	.04	.47	.05		.21	.03											.02	.06			.70	1.08	.09			.68	.18	.22			3.83	
Mount Pocono	Upper Del.		.40	.20		T.	.10	.16						.09								.60	.20					.46	.06			2.27	
Mount Union	Juniata																																
Muncy Valley	W. Br. Susq.		.48	.07	.43	.01																											

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Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio	.28	.73	.05		.14	.07	.03		.15	T			.07	.21		T	.22		.03	.17	T	.38	.01	T	.04	.06	.31	.16	.07	.09		3.27
Beaver Falls|||	Beaver	.18	.59	.09		.11	.07	T	T	.12	T			.07	.18			.33		T	.05	T	.26	T	T	.05	.08	.21	.46	.09	.01		2.95
Bradford	Allegheny																				.28	T	.16				.25	.35					2.95
Brookville	do	.50	.15	T	T	1.01	.25													.28	T	.46						.37	.30				3.33
Butler	Ohio	.78	.10		.28	.14	.02		.09		T			.04	.11				.05		.01	.25	.44			.09	.05	.43	.44	.01			4.25
Claysville	do	.60	.58	.09	T	.02	T	.08		.56						T		.29		.04	.11	.11	.31	.08	T		.09	.37		.49	.09		3.94
Cloet||	Allegheny	.74	.62			.60	.15							.15			.16	.06		.18	.11	.38	.11			.03	.21	.44					3.87
Clymer||	Conemaugh	.12	.96	.25	.10	.31		.04		.03				.14				.12	.06	.12	.12	.41	.02	T		.16	.91						5.28
Confluence|||	Youghiogheny	.29	.50	.23	.23		.22	.23		.44	.26				.30			.08		.27		.43		.03		.37	.30		.08	1.02			2.98
Corapolis|||	Ohio	.37	.69	T	T	.14	.02	.04		.25	T			.04	.19			T	.05		.01	.25	.01	.20	.01	T	.05	.27	.15	.08	.15		3.79
Corry	Allegheny	.05	.39	.17	T	.68	T	.02									.19	.45		.42	T	.08	.06	T	.03	.24	.62	.39	T				3.22
Coudersport	do		.55			.36											.05					.51				.25	1.09						4.05
Creekside	Allegheny	T	T	T	1.08	.32	.06			.07				.16			.24		.16	*		.95	T	T	T	.02	.30	.69					4.35
Derry	Conemaugh	.51	.11	.74	.03	.31		.09		.42				.27			.35	.06		.09	.13	.40	.08				.10	.40		.26			3.66
Donora	Monongahela	.62	.52		.01	.12	.01	.05		.47				.20	.01		.22			.01	.01	.12	.52				.03	.24		.43	.07		4.13
Ebensburg	Conemaugh	.30	.35	.25	T	.33		.10						.14			T	.04		.09	.03	1.15	.33	T	T		.42	.56		.04			4.50
Elk Lick	Youghiogheny																																3.11
Falls Creek	Allegheny	1.09	.14	.03	.54	.15								.04				.39		.45	.06	.48	.37		T	.06	.38	.32					4.33
Franklin|||	Allegheny		.52	.24		.34	.04			.22	.03			.05			.21		.04	.30		.51	.02	T	T	.14	.16	.33	.28				4.30
Freeport|||	Allegheny	.33	1.06	.08		.38	.06	.07		.22				.05			.10		.15	.16		.43	.46	.09	.01	T	.06	.35		.25	.04		2.63
Greensburg	Youghiogheny	.60	.62	.09		.16	.03	.07		.31				.30			.02	.10								.01	T	.01	.20	.46			2.18
Greenville	Beaver	.15	.25	.04	T	.77	.05	T					.06				.19	T		.12		T			.20	T	.03	.05	.44	.33			3.37
Grove City	Beaver	T	.50	.09		.11		.01									.31			.05					.20	T	.03	.05	.44	.33			3.37
Herr's Isl. Dam|||	Ohio	.50	.74	.03	.01	T	T	.04		.34	.02			.05	.23			.09	.02		.13	.02	.53	T	T	T	.01	.31	.06	.09	.15		
Indiana	Conemaugh																																3.75
Ingram	Ohio	.67	.34	.01		.06	.05	.03		.40				.32			.15	T		.07	.20	.42	.22	T	T		.11	.37		.32	.01		3.39
Irwin	Youghiogheny	.57	.59	.03	.02	.06	T			.33				.27			.13	.03		.23	.16	.13	.10	T		.44		.30					4.01
Johnstown	Conemaugh	.98	.24	.15		.19	.26			.30				.27			.05		.08		.25	.19	.05	.08	.04	.30	.33	.10	.15				4.18
Kregar|||	Youghiogheny	.82	.44	.12	.05	.11	.08		.12	.09				.22			.08		.20		.61	T	.04	T		.19	.29	.08	.55	.04			4.05
Linesville|||	Beaver		.22	.12		1.02	.03							.14				.92		.25	.16		.11			.43	.14	.28	.28				3.82
Lock No. 4|||	Monongahela	.57	.38	.19	.02	.08	.05	.08		.43	.03			.05	.14		T	.22		.01	.02	.01	.62	T	.02		T	.35	.04	.07	.49		4.19
Lycippus	Conemaugh	.64	.32	.27		.06	T			.27				.26			.17	.08		.42		.23	.51	.07		.06	.37		.30	.13			4.02
Mount Lebanon	Ohio	.90	.51			T	.03	.02		.33				.25			.10		.02	.18	.40	.33	T	.05		.14	.36		.40				2.39
New Castle|||	Beaver	.61	.15		.10		.03		.03				.11	.04			.20		.05	.02	.01	.25	T		.06	.17	.50	.06					3.08
Newell	Monongahela	.56	.14	.02		T		.04		.44				.16			.13	.07		.10	T	.18	.30	.02	T		.04	.35		.41	.12		2.47
Parkers Landing|||	Allegheny		.72	.08	T	.15	.10	.14						T	.04			.16		.02	T		.38		T	T	.05	.30	.33				3.55
Pennline|||	Beaver		.20	.07		.71	.03							.15				.85		.02	.25		.13	T	T	.39	.18	.33	.24				3.15
Pittsburgh***	Ohio	1.11	.22		T	.02	.05		T	.35				.25			.07			.02	.11	.34	.04	T	T	T	.06	.28		.23			3.55
Ridgway	Allegheny		.32	.13		.96								.12			.28	.32		.09						.42	.35	.40					3.96
Saegertown|||	Allegheny	.16	.32	.13		.96								.12			.28	.32		.09						.42	.35	.40					1.90
Saltsburg|||	Conemaugh	.23	.56	.20	.02	.02	.08	.06		.14				.01	.18		T	.57		T	.27	.06	.70		.05	.01	.01	.35	.27	.06	.11		
Sharon|||	Beaver	T	.45	.04		.15		.04						.05	T		.33		.05			.02				.08	.19	.39	.11				5.03
Somerset	Youghiogheny	.58	.85	.40	.10	.12	.06	.08		.18				.20			.08	.10		.15		.20	.35	T	T		.18	.30		.40	.70		3.66
Springdale|||	Allegheny	.29	.76	.25		.02	.02	.04		.24	.01			.03	.20			.08		.05	.09	.03	.69	.03	.05	.02	.02	.40	.16	.08	.10		4.85
Uniontown	Monongahela	.55	.28	.10		.08		.05		.34				.30			.22		.34		.30	.52	.02				.06	.63		.40	.66		4.26
Unity Reservoir||	Youghiogheny	.60	.55	.15		.20	.05	.10		.27				.28			.12	.06		.20	.08	.20	.53	.10			.07	.33		.29	.08		3.39
Vandergrift	Conemaugh	.82		.37	.04	.08	.01			.29				.24				.06		.02	.12	.56	.02	T	.05		.16	.54		.01			4.12
Warren	Allegheny		.20	.18		1.40	.08										.48		.18			.18		.10	.26	.46	.60						3.96
Washington	Ohio	.89	.29	.02		.03	.08		.02	.53				.24		T	.11		T	.07	.04	.61	.01	.04	T		.07	.34		.53	.04		2.46
Westford|||	Beaver		.39	.08		.60								.02	.20					.25	.10	.12	.08	.05		.20	.32		.13	.40		3.69	
West Newton|||	Youghiogheny	.55	.40	.25	T	.04	.03	.10		.42	T			.02	.20					.04	.05	.75			.01	T	T	.26	.04				3.00
Zelienople|||	Ohio	.14	.67	.11		.16	.06	.03		.13	T			.05	.15			.16		.08	T		.37	.02	.02	.05	.09	.27	.46	.03			
Lake Drainage.																																	
Erie***	Lake Erie	.39	.02	.04	.02	.61	.02	T					T	T			.16	.32	T	.06		.20	T	T	.09	.03	.22	.29					2.47
West Bingham	Genesee																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for April, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	47	38	43	49	65	48	56	43	51	60	68	53	61	65	74	68	72	70	88	81	78	50	49	55	58	55	59	60	55	58.8	
Altoona.....	Minimum	37	33	33	34	33	34	39	31	33	28	33	32	40	30	31	40	49	38	45	51	56	52	37	31	32	34	40	39	39	44	37.6
Beaver Dam.....	Maximum	50	35	34	34	37	61	54	52	49	52	60	70	64	61	63	72	72	75	76	76	78	61	42	42	50	56	49	56	56	54	56.4
Brookville.....	Minimum	31	32	31	30	32	33	30	23	31	26	22	29	44	26	33	43	50	44	54	57	51	36	26	24	27	31	39	32	40	35.0	
Butler.....	Maximum	58	45	46	56	67	65	64	57	57	54	58	70	70	61	67	73	75	80	85	82	79	77	43	47	53	65	63	61	60	65	63.4
Carlisle.....	Minimum	35	39	31	36	38	34	31	28	35	29	25	27	40	30	35	47	49	43	56	59	49	37	20	27	34	33	38	28	45	38	36.5
Chambersburg.....	Maximum	40	40	35	38	44	63	47	57	46	51	60	71	55	63	69	77	75	80	78	73	79	44	43	45	53	55	46	59	62	65	57.1
Clearfield.....	Minimum	30	32	32	33	31	30	21	20	26	22	17	19	25	20	25	39	38	37	54	47	39	23	20	20	27	25	30	28	32	29	29.0
Coatesville.....	Maximum	56	44	41	48	62	63	44	56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68	78	41	41	44	52	58	48	58	61	65	.....	.....
Corry.....	Minimum	36	34	34	38	32	31	25	34	30	28	23	38	28	37	46	53	40	54	61	51	37	22	25	31	34	35	30	39	40	29	35.7
Emporium.....	Maximum	60	39	45	44	44	66	64	60	57	56	66	74	72	65	67	75	74	74	72	87	85	75	51	50	59	59	52	62	60	52	62.2
Erie.....	Minimum	34	33	32	32	34	36	38	30	34	30	31	26	42	27	29	38	58	48	51	51	54	39	33	30	27	32	44	40	45	45	37.4
Franklin.....	Maximum	47	37	42	48	43	66	52	59	52	53	62	72	55	63	70	78	75	70	74	87	81	46	49	51	53	57	51	61	65	62	59.4
Greensburg.....	Minimum	31	32	32	31	32	33	35	23	34	24	25	23	40	24	24	38	48	36	48	49	50	36	29	27	29	30	40	34	35	38	33.7
Harrisburg.....	Maximum	59	37	42	42	42	65	61	56	49	55	64	70	67	62	62	71	74	73	74	84	79	62	50	49	59	60	59	62	58	55	60.1
Lebanon.....	Minimum	33	33	33	33	35	36	36	29	34	28	27	25	42	29	31	42	47	45	51	51	52	39	30	31	27	32	39	36	38	44	36.3
Lancaster.....	Maximum	75	72	42	62	69	66	60	55	58	55	60	74	71	61	69	76	80	83	86	84	80	72	43	46	54	66	67	63	59	61	65.6
Lewistown.....	Minimum	36	36	34	34	38	32	31	27	36	31	21	26	42	32	32	53	52	45	62	61	51	35	23	28	32	35	49	26	39	42	37.4
Mechanicstown.....	Maximum	62	38	39	38	39	64	55	61	54	53	64	68	67	72	81	77	72	81	77	82	80	77	48	50	54	62	54	61	66	67	62.2
Mifflintown.....	Minimum	34	32	31	32	33	32	30	22	34	23	21	22	37	23	27	42	48	42	54	54	50	37	26	25	29	32	35	38	34	38	33.7
Monaca.....	Maximum	45	37	38	50	49	62	52	54	57	51	55	63	51	57	70	79	74	82	79	77	75	63	42	44	51	53	50	54	56	59	57.6
Monaca.....	Minimum	28	32	32	30	34	29	28	21	34	24	23	22	33	21	26	45	49	42	60	50	43	32	23	24	31	37	38	30	35	33	33.0
Monaca.....	Maximum	43	38	38	39	39	59	48	52	50	48	56	62	52	58	67	78	72	78	76	76	76	60	44	45	52	54	51	57	60	61	56.5
Monaca.....	Minimum	28	35	32	34	34	35	30	20	33	22	18	20	33	18	22	42	48	36	54	54	46	35	25	24	33	26	38	30	30	30	32.2
Monaca.....	Maximum	42	35	38	52	53	60	30	42	51	39	51	58	42	44	63	71	72	82	82	75	75	38	39	42	51	56	48	53	52	55	53.3
Monaca.....	Minimum	32	31	31	35	37	38	30	27	36	31	32	35	34	31	39	55	52	57	63	47	38	34	32	29	33	41	40	37	39	37	37.8
Monaca.....	Maximum	49	42	39	45	58	63	46	60	49	51	60	68	52	63	63	77	79	80	83	66	78	41	44	46	54	60	48	59	60	62	58.2
Monaca.....	Minimum	31	35	32	33	36	29	30	22	28	25	21	24	29	23	27	36	48	41	44	58	48	35	22	25	31	31	37	28	34	34	32.5
Monaca.....	Maximum	44	35	45	46	37	57	46	46	47	44	51	64	55	52	63	77	63	72	75	80	77	65	43	43	50	51	50	52	56	58	54.8
Monaca.....	Minimum	28	27	28	27	26	32	28	20	27	26	28	30	24	29	23	26	41	38	36	46	46	32	27	22	25	32	32	30	37	36	31.7
Monaca.....	Maximum	65	40	45	41	44	67	66	57	56	55	63	71	69	64	65	75	76	73	74	90	84	76	54	54	63	59	62	15	65	60	63.3
Monaca.....	Minimum	32	32	32	32	33	35	39	30	32	30	29	29	41	32	32	41	51	40	49	50	55	39	30	30	28	34	42	42	44	44	36.8
Monaca.....	Maximum	61	53	40	52	61	68	63	53	53	44	57	58	58	58	62	62	73	75	78	78	67	67	51	42	50	56	56	57	57	57	57.6
Monaca.....	Minimum	38	40	35	38	38	38	31	27	35	29	24	30	42	31	48	50	53	49	62	63	58	25	29	31	36	41	37	45	46	46	39.4
Monaca.....	Maximum	50	45	38	40	60	63	63	53	53	44	57	58	58	62	62	73	75	78	78	67	67	51	42	50	56	56	57	57	57	57	57.6
Monaca.....	Minimum	33	33	31	31	34	28	28	23	33	27	22	26	35	26	36	46	50	44	59	56	52	36	24	26	33	34	35	24	36	36	34.6
Monaca.....	Maximum	60	48	43	44	44	64	62	57	43	48	61	68	67	61	63	65	68	72	72	86	84	74	48	45	54	56	58	60	62	60	59.9
Monaca.....	Minimum	36	33	32	32	33	36	37	31	33	29	25	26	33	23	28	34	36	38	41	49	55	38	33	27	25	31	34	34	36	41	34.0
Monaca.....	Maximum	45	38	44	45	41	64	52	54	45	52	61	68	60	62	62	72	72	72	66	84	77	63	50	48	57	59	54	61	60	52	58.0
Monaca.....	Minimum	35	33	34	34	36	39	34	34	34	35	36	36	40	38	36	45	49	44	51	55	59	39	35	35	34	42	44	43	48	43	40.2
Monaca.....	Maximum	54	39	42	48	48	61	60	52	53	55	59	68	64	56	66	76	71	80	79	81	81	78	46	45	50	50	48	53	57	60	59.3
Monaca.....	Minimum	20	30	31	27	25	32	32	22	26	24	25	23	24	22	22	29	49	36	41	50	46	36	34	24	23	36	30	28	30	30	30.3
Monaca.....	Maximum	55	38	40	41	40	65	58	56	51	54	63	74	69	64	65	78	76	75	78	81	80	63	47	47	54	61	53	61	58	59	60.1
Monaca.....	Minimum	33	32	32	32	34	38	34	27	33	24	28	21	41	26	27	40	47	41	54	53	52	39	30	24	23	28	42	37	37	45	35.1
Monaca.....	Maximum	45	48	37	38	45	64	48	54	48	54	64	73	56	65	78	76	80	83	79	81	65	43	44	54	62	60	54	60	56	57	58.9
Monaca.....	Minimum	37	36	34	34	35	35	32	35	31	29	29	40	30	34	46	42	44	57	60	57	35	28	32	32	42	34	42	45	45	45	37.6
Monaca.....	Maximum	64	47	48	49	50	68	69	69	63	60	66	73	70	67	68	77	75	71	72	88	87	73	54	53	59	63	60	65	65	60	65.1
Monaca.....	Minimum	34	33	31	32	35	35	39	26	30	26	27	24	42	24	25	34	42	35	42	48	51	35	30	27	25	29	40	37	38	42	33.9
Monaca.....	Maximum	47	37	42	48	45	62	56	48	53	53	55	67	57	54	68	78	78	80	79	77	69	45	46	50	50	56	58	58	58	58	58.1
Monaca.....	Minimum	25	25	32	32	32	32	30	22	29	25	22	22	32	21	22	38	40	40	52	55	45	36	30	23	29	28	39	32	38	30	32.1
Monaca.....	Maximum	44	40	44	45	48	65	51	54	46	53	62	70	53	63	65	75	75	73	6												

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII.

MAY, 1927.

No. 5

GENERAL SUMMARY.

There was much cloudy, dark, and gloomy weather during the month, the sunshine averaging only 43 per cent of possible. Light rains were frequent, and while the average rainfall for the State was only slightly above the May normal yet there was an average of sixteen days with 0.01 inch or more. The frequent rains delayed all kinds of out door work and especially seedling and planting of crops. A moderate deficiency in temperature kept the soil too cold for a good and uniform germination of seeds, and the growth of most crops was slow. Frosts did considerable damage to tender crops, especially on the 28th. Orchard fruits were badly damaged in some sections. Considerable corn rotted in the ground so that it came up unevenly and much replanting was necessary. The corn that came up was yellowish in color and grew very slowly, and the crop was decidedly backward at the close of the month. The weather was more favorable for wheat and it made a good growth and development until near the end of the month when many reports of of damage by fly were received. Pastures and meadows were mostly in good condition, but were a little slow in growth. Farmers began cutting the first crop of alfalfa at the end of the month, and it was generally reported as satisfactory. Oats did well and was good to excellent at the close of the month with some reporters saying that it promised the best crop for several years. Early field potatoes came up unevenly during the first half, but improved considerably during the last half of the month. Truck crops were generally backward, but otherwise in good condition. A heavy hailstorm occurred in the southern portion of Franklin County on the 24th, covering a path about two miles wide and doing considerable damage. Heavy local rains flooded the small streams in Cumberland County on the 25th and 26th.

TEMPERATURE.

The mean temperature for the State, as deduced from reports from 84 stations, was 58.2°, which is 1.3° below the May normal. The highest monthly mean was 62.2° at Newell, and the lowest was 51.0°, at West Bingham. The highest temperature recorded during the month was 92°, at three stations: Hyndman on the 9th, and at Clearfield and Johnstown on the 22d. The greatest daily range of temperature was 50°, at Brookville on the 9th and at Lawrenceville on the 22d.

PRECIPITATION.

The average precipitation for the State, determined from reports from 136 stations, was 4.14 inches, which is 0.15 inch in excess of the normal for the month. The greatest monthly total was 7.23 inches at Elk Lick, while the least, 1.75 inches, was recorded at the Philadelphia Weather Bureau. The greatest amount recorded in any 24 consecutive hours was 2.63 inches, at Blossville on the 25th. Snow flurries, amounting to but a trace, occurred at Butler on the 11th, at Freeland on the 13th and at Pottstown on the 23d.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	12 noon.	8 p. m.		Average	*Highest	Direction	Date
Erie.....	186.6	451.8	41	76	66	71	9,698	13.0	46	sw.	25
Harrisburg....	186.4	446.2	42	72	61	67	4,760	6.4	31	e.	10
Philadelphia...	212.0	446.2	48	84	75	79	6,149	8.3	33	sw.	10
Pittsburgh.....	213.3	449.0	48	73	62	62	8,697	11.7	38	w.	10
Reading.....	139.7	446.2	31	69	55	65	2,266	3.0	24	nw.	15
Scranton.....	213.0	449.0	49	83	63	71	4,962	6.7	30	sw.	26

* For any five-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....	16
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....	11
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13	15
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11	8
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14	16
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14	16
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8	9
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9	10
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10	12
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14	15
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10	11
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14	15
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7	8
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6	7
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9	11
1905.....	60.8	93	22	2.59	5.17	0.56	11	9	11	12
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9	10
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11	15
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9	10
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10	12
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4	7
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9	11
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6	9
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13	14
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8	13
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12	13
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6	14
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11	14
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6	8
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9	11
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8	10
1923.....	58.3	93	20	3.50	7.43	1.23	19	6	6	8
1924.....	54.6	92	18	5.71	9.64	3.31	9	9	13	17
1925.....	55.2	98	22	3.49	7.98	1.02	13	10	8	11
1926.....	58.8	95	18	1.78	5.52	0.62	17	10	4	8
1927.....	58.2	92	23	4.14	7.23	1.75	9	9	13	16

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.6	8.4	25	3.3	8	28
Phillipsburg....	Delaware.....	5.0	10.0	26	2.5	9	23
Mauch Chunk....	Lehigh.....	1.3	0.8	25	2.2	9	12
Wilkes-Barre....	Susquehanna.....	7.6	18.4	26	4.6	9	20
Williamsport....	Susquehanna.....	5.8	12.5	26	3.1	14	20
Harrisburg.....	Susquehanna.....	6.5	12.1	27	5.0	10	17
Freepport.....	Allegheny.....	9.2	16.6	26	5.3	15	22
West Newton.....	Youghiogheny.....	3.4	7.9	1	2.0	12	20
Lock No. 4.....	Monongahela.....	17.6	27.5	1	14.2	30	31
Pittsburgh.....	Ohio.....	15.0	21.4	20	12.0	12	25
Beaver Dam.....	Ohio.....	13.1	23.7	20	8.7	9	30

Climatological Data for May, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	57.8		82	10	35	1	35	3.55	-0.07	1.17	0	18	17	10	4	e.	John A. Frick.
Altoona	Blair	1,615	40	57.6	-1.8	87	22	32	1	37	5.41	+1.39	1.49	0	18	14	5	12	w.	Lewis E. Biller.
Arendtsville	Adams	700		58.8		83	25	34	1	38	4.71		0.72	0	18	6	11	14	nw	S. W. Frost.
Bethlehem	Northampton	295	43	59.1	-3.9	81	10	41	1	33	3.33	-0.39	1.11	0	14	12	9	10	w.	Lehigh University.
Bustleton	Philadelphia	125	8	59.5		83	10	38	2	33	2.63		0.58	0	9	9	8	14	w.	Experiment Station.
Carlisle	Cumberland	467	60	60.6	-0.8	84	10	35	1	41	4.22	+0.39	1.14	0	16	12	8	11	se	Prof. C. E. Miller.
Catawissa	Columbia	520	30	57.8	-3.6	87	10	29	1	40	4.88	+1.30	1.23	0	12	15	2	14		H. H. Yetter.
Center Hall	Center	1,272	31	53.8	-6.0	86	24	36	16	42	3.88	-0.12	0.62	0	16	11	4	16		S. W. Smith.
Chambersburg	Franklin	580	27	59.7	-1.5	84	24	31	1	35	3.04	-0.61	0.60	0	17	9	7	15	s.	William B. Spear.
Clearfield	Clearfield	1,120	17	58.6	-1.2	92	27	29	1	48	5.38	+0.60	1.23	0	17	10	7	14	sw.	E. W. Hess.
Coatesville	Chester	380	39	59.1	-2.6	82	23	32	28	37	3.06	-0.97	0.82	0	14	5	16	10	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	57.4	-1.6	84	10	33	28	35	2.98	-0.39	0.69	0	14	9	8	14	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	56.2	-2.5	87	22	25	1	38	6.63	+2.18	2.04	0	14	7	12	12	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	58.8	-2.1	83	10	36	1	33	2.90	-0.63	0.59	0	16	6	6	19	sw.	Ira J. Keath.
Freeland	Luzerne	1,970	12	54.6		77	10	32	1	34	5.69		0.92	T.	18	7	5	19	nw.	Theo. Reichmann.
George School	Bucks	190	20	60.1	-0.9	83	10	35	3	39	3.24	-0.37	0.96	0	13	21	5	5	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	53	60.2	-1.1	88	24	33	28	40	3.33	-0.64	0.57	0	12	8	12	11	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	23	55.3	-3.2	82	10	25	1	37	4.68	+0.92	1.02	0	14	7	8	16	s.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	3	52.0		77	22	31	2	37	4.93	+0.88	1.66	0	14	12	4	15	w.	Gustav Holtz.
Hamburg	Berks	535	34	57.2	-4.5	81	10	36	1	35	3.95	-0.55	1.04	0	16	6	15	10	w.	State Sanatorium.
Hanover	York	600	23	59.8	-4.1	79	3	37	1	37	2.54	-0.76	0.85	0	16	14	6	11	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	59.4	-2.4	80	10	40	1	27	2.72	-0.95	1.07	0	17	13	8	20	sw.	U. S. Weather Bureau.
Hawley	Wayne	900	8	54.6		81	22	27	1	45	5.43		1.60	0	10	9	11	11	n.	J. S. Pennell.
Holtwood	Lancaster	200	12	59.7		82	11	41	1	27	2.40	-0.78	0.52	0	15	9	6	16		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	59.6	-1.1	87	22	31	1	43	5.45	+1.13	1.72	0	20	8	7	16	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	61.6	+9.2	92	9	31	1	43	2.84	-0.36	0.51	0	18	6	13	12		John S. Madore.
Lancaster	Lancaster	255	39	58.8	-2.2	85	10	28	2	48	2.29	-0.99	0.60	0	9	11	12	8	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	55.8	-1.7	90	22	28	1	50	5.20	+1.34	1.02	0	14	8	10	13		C. P. Darling.
Lebanon	Lebanon	469	86	58.2	-2.8	85	10	39	1	37	3.00	-1.03	0.65	0	17	7	10	14	w.	S. B. Benzing.
Lewisburg	Union	450	52	58.6	+0.1	85	10	31	1	38	4.81	+0.88	1.20	0	19	8	10	13	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	61.2	-0.7	90	10	33	1	41	5.01	+1.17	1.10	0	12	8	8	15	sw.	Joseph Beaver.
Lykens	Dauphin	680	12	58.0	-1.1	84	10	28	1	40	4.24	-0.05	1.72	0	13	8	8	15	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	57.3	-2.8	80	10	34	29	42	3.75	-0.26	0.80	0	13	11	6	14	se.	R. K. Wintermute.
Mifflintown	Juniata	445	23	58.8	-1.9	84	10	29	1	39	4.52	+0.78	1.11	0	15	11	3	17	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	24	53.2	-1.8	80	10	29	1	35	7.05	+3.35	1.60	0	15	6	10	15	s.	Silas Jagger.
Muncy Valley	Sullivan	1,045	15			79	10				5.85	+1.48	1.07	0	15	6	12	13	w.	A. H. Boatman.
Nanticoke	Montgomery	300	8	59.9		83	10	39	1	32	2.51		0.58	0	12	7	8	16	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	58.0	-1.3	83	10	35	2	39	3.60		0.70	0	17	9	8	14	w.	North Springfield Water Co.
Palmerston	Carbon	398	10	56.4		81	10	33	1	40	3.26		0.97	0	13	9	11	11	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	61.6	-1.3	82	10	43	1	26	1.75	-1.45	0.46	0	13	3	14	14	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	2	61.9		83	10	41	1	29	2.26		0.62	0	13	7	15	9		Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	60.8		83	23	44	1	30	2.12		0.38	0	14					Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	2	61.6		82	10	45	1	25	1.81		0.42	0	10	1	16	14	w.	Atlantic Refining Co.
Phoenixville	Chester	100	16	59.2	-1.8	81	10	34	1	34	2.92	-1.04	1.09	0	9	12	15	4	nw	North Springfield Water Co.
Quakertown	Bucks	496	42	57.1	-2.5	80	10	35	1	37	3.35	-0.67	1.11	0	17	7	11	13	s.	John E. Benner.
Reading	Berks	325	57	59.4	-3.1	82	10	41	1	28	2.73	-0.64	0.68	0	16	6	8	7	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	56.2	-3.2	81	22	37	1	39	4.47	+1.03	1.36	0	17	3	10	18	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	57.9	-3.2	82	10	32	1	35	2.55	-1.53	0.90	0	14	13	8	10	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	60.4		81	23	40	1	28	2.46	-1.00	0.58	0	12	11	10	10	nw.	W. S. Guiles.
State College	Center	1,217	42	57.8	-2.1	86	22	34	1	37	5.30	+1.33	1.01	0	17	5	10	16	nw.	C. A. Kern.
Stroudsburg	Monroe	500		56.3		80	10	33	16	42	4.26		0.88	0	14	8	12	11	nw	State Normal School.
Towanda	Bradford	754	32	55.4	-2.6	83	22	29	1	38	3.82	+0.61	0.84	0	20	7	9	15	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	54.8	-2.0	88	22	25	1	46	2.93	-1.12	0.75	0	12	14	8	9	w.	George W. Hill.
West Chester	Chester	455	89	58.8	-1.9	82	10	38	1	31	2.60	-1.85	0.62	0	13	8	15	8	nw	Arthur M. Hay.
Williamsport	Lycoming	521	40	58.2	-2.5	82	10	31	1	39	4.45	+1.25	1.12	0	16	8	8	15	w.	Miss Veronica E. April.
York	York	400	39	59.9	-1.8	85	10	34	28	39	2.59	-0.79	0.83	0	16	11	10	10	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	59.4	-1.0	87	9	30	1	38	5.70	+2.68	1.66	0	20	4	12	15	sw.	U. S. Engineer.
Bradford	McKean	1,427	12			90	22	24	1	50	4.70	+1.03	0.80	T.	15	11	1	19		City Engineer.
Brookville	Jefferson	1,173	36	53.9	-2.6	90	22	29	1	40	4.35		1.19	0	19	13	0	18	w.	John Fawcett.
Butler	Butler	1,152	2	58.1		89	22	32	27	40	4.35		1.19	0	21	11	7	13	s.	Foraker Ferrell.
Claysville	Washington	1,150	23	61.6	+0.3	91	22	29	1	44	3.79	-0.35	0.55	0	21	11	7	13	w.	J. L. Melvin.
Corry	Erie	1,430	15	55.9	+2.1	86	22	28	1	38	6.05	+1.37	2.09	0	21	6	14	11		Nevin R. Dickson.
Derry	Westmoreland	1,172	30	60.2	-1.3	86	9	32	1	38	4.17	+0.72	0.92	0	13	11	13	7	w.	Ted R. Wineman.
Donora	Washington	762	1	61.2		88	9	36	1	38	3.3									

Daily Precipitation for May, 1927																																		
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh			.01	.02	.08	.04			.06	T	.48	.10			.49	.03		.01	.12	.29			.02	.26	1.17	.19	.11			.07	3.55		
Altoona	Juniata			.22					.10	.09	.31		.03		.45	.09	.10	.21	.40	.89	.01			1.49	.30	.31	.01			.12	.28	.07	5.41	
Ansonia	W. Br. Susq.			T	.05	.91				.22	.07	.08			T	.34	.10	.01	.08	.19	.08			.60	.67	.68	.04	.28		.01	.17	.18	4.71	
Arendtsville	Potomac	.59		.01	.70	.70				.17		.72				.01			.19	.12	.50				.01	.01	.15	.25	.22		.01	.17	.18	4.71
Baker's Summit	Juniata			.16	.30	.50	.04		.24		.09	.04			.52	.26	.06		.42	.12				.52		.27	.24			.25	.05		4.08	
Bethlehem	Lehigh			T	.11		.03					.55			.22	.16	.04		.02	.30				.02	.02	.68	1.11	.05			.25	.05	.02	3.83
Blosserville	Lower Susq.			T	.70						.90				.55	.07	.08		.47				.30	T		2.63	.24			.15		.10	6.19	
Bustleton	Lower Del.			.31		.13				.45		.06			.50				.01	.05				T	.58	.54							2.63	
Carlisle	Lower Susq.			T	.20	.33	.08		.12		.30	.03			.53	.13	T		.31	.10	.04			.09		1.14	.53			.10		.19	4.22	
Catawissa	N. Br. Susq.			.15		T				.01	.83				.77	.15			.12	1.23				T	.48	.52	.26	.28			T	.08	4.88	
Center Hall	Susquehanna			.12	.26					.12		.02	.36		.17	.62	.48		.23			.20	.58	.04	.34	.20				.04		.10	3.88	
Chambersburg	Potomac			.28	.60	.05		.17	.52	.26					.39	.01	T	T	.38	T	.01			.06	.01	.33	.25			.04	.14	.04	3.04	
Clearfield	W. Br. Susq.			.04		.63	.06				.18		T		.54	.15	.02	T	.38	.96	.20		.05	.13	.35	1.23	.38			.03	.05		5.38	
Coatesville	Lower Del.			.34		.10			.01	.35	.82	.02			.45	.11			.13	.01	.04					.49	.17					.02	3.06	
Colebrook	Lower Susq.			T	.18		.11		T	T	.69		T		.60	.07	.06	.07	.18	.06	.02			.20		.46	.19				T	.04	2.93	
Conshohocken	Schuylkill					T			.10	.30	.51	.21	T		.29	.03			T						T	.02	.21						1.99	
Cresson	Juniata			.26		.05				.19	.16	.06	.04		.50	.25	.20	.12	.47	.03			.12	.19	.02	.04	.16			.25	.01		3.12	
Doylestown	Lower Del.			.21			T			.21		.70	.03	.12	.26				T	.06	.22			.02	T	1.43	.33					.28	3.87	
Driftwood	W. Br. Susq.			.07	.16	.47						.24			T	.75	.08		.20	.70	T					.25	.80	.05					3.77	
Emporium	do.			.05	.06	.51				.16	.18				.62	.25	.21		T	.61			.43	1.33	.23	1.81	.18				T		6.63	
Ephrata	Lower Susq.			T	.14	.01	.09		T	.19	.59	.12	T		.45	.26	.02		.13	.03	.01				.03		.27	.54	T		.02		2.90	
Forest City	N. Br. Susq.				.07				1.20		.47				.07	.52	.34	T	.21	.27	T	T			1.70		.77	.27	T				5.89	
Freeland	Lehigh			T	.02	.03	.01			.06	.11	.37		T	T	.80	.06	.09	.16	.86	.42			.08	.92	.85	.48	.34			.03		5.69	
George School	Lower Del.			.11	T	.19		.06		.07	T	.58	.05	T		.62			.02	.04	.02			T	T	.96	.41					.11	3.24	
Gettysburg	Potomac				.14	.45			.40	.55					.40		.06		.30					.06		.57	.25			.15			3.33	
Girardville	Susquehanna				.12	.06	.0		.01	.01	.40		.01	.02	.87	.13	.11		.11	.91			.10	.48	.58	.77	.31			T	.21	5.22		
Gordon	Lower Susq.			.17	.07	T				T	.30	.06			.52	.48	.04			.50					.89	.18	1.02	.01	.09				4.68	
Gouldsboro	Lehigh			T	.10		.08			.25		.75			.30	.25	.09		.15	.80			.05	T	1.66	.25		.55			.15		4.93	
Graterford	Schuylkill			T		.03	.06	.09		.03		1.02	.02		.38	.10			.03	.04	.02			T	T	.63	.32	.12			.01		2.90	
Hamburg	Schuylkill				.06	.04			.08			.61			.32	.28			.07	.17	.03		.27	.22	.51	1.04	.13	.02			.10		3.95	
Hamlin	Upper Del.			.10	.08					.62					.20	.15	.05	.20		.10	.12			.95	.50	.82	.25				.07		5.23	
Hanover	Lower Susq.				.08	.03	.06		.13	.05		.85			.30	.06	.02		.30	.02				.03		.28	.20				.10	.03	2.54	
Harrisburg	do.			.05	.16	.01	.06		.01	.01	.30		T		.44	.02	.02		.20	.11			.01	T	.89	.18	.09			T	.16		2.72	
Harrisburg East	do.				.16	.10	.09			.05		.30		T	.45	.04	.01	.02	.20	.13	.03			.02		1.04	.10				.01	.13	2.88	
Harrisburg North	do.				.02	.24	.05			.05		.34			.50	T	.11	.17	.06	.21			.14		1.28	.19	.13					.10	3.59	
Hawley	Upper Del.			T	.20		T			1.60	1.13				.28	.16					.29				.97			.64	.04			.12		5.43
Holtwood	Lower Susq.	.50			.06	.22	T			.06	.06	.52	.05		T	.28	T	.03	.11	.05	T					.03	.30	.07				.06	2.40	
Huntingdon	Juniata			T	.46	.15	.04		.02	.07	.08		.02		.43		.28	.01	.26	1.72			.24	.42	.08	.74	.21			.06	.15	.01	5.45	
Hyndman	Potomac				.28		.04		.31	.07	.01		.03		.12	.40	.03	T	.29	T	.02				.12	.51	T			.17	.08	.06	2.84	
Lancaster	Lower Susq.			.04						.20	.58				.35				.19	.12						.60	.14					.20	2.29	
Lansford	Lehigh				.01					.01		.48			*	.98	.01	.07	.70	.14				.07	.43	.48	.30	.03				.20	3.91	
Lawrenceville	N. Br. Susq.			.08	T	.32				1.02	T	T			.10	.12	.10		.05	.60	.10		.42	.70	.90	.52	.17						5.20	
Lebanon	Lower Susq.			T	.08	.15	.08	T		.03	T	.44			.58	.02	.02	.08	.04	.26			.06	.01	.65	.28	.20				.02	T	3.00	
Lewisburg	W. Br. Susq.			.01	.22	.14	.03			.01	.23				.40	.24	.12		.07	1.13	.03			1.20	.12	.72	.02			.03	.03	.06	4.81	
Lloyd	do.																																	
Lock Haven	do.				.24	.14				.18					.20	.41			.23	1.10				1.04	.35	.68	.39				.05		5.01	
Lykens	Susquehanna			T	T	.23			T	T	.52	T			.40	.36	.05	T	.13	.44				.27	T	1.72	.05	.03			.02	.02	4.24	
Mauch Chunk	Lehigh					.02				.08	.65	.03			.38	.42	T		.07	.80				.39	.17	.70	.03				.01		3.75	
Midlinton	Juniata			.01	.39	.02	.02				.19				.20	.20	.10	.01	.29	.72				1.11		1.04	.10				.12		4.52	
Montrose	N. Br. Susq.				.24					1.60	.34	.45			.26	.85	.17		.30	.25			.05	.30	1.25	.48	.34	.17					7.05	
Morris Run	N. Br. Susq.			.																														

Daily Precipitation for May, 1927—Continued from page 23

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio				.47	.19	.04			.31	T.	.38	.03	T.	.03	.53	.26	.08	.11	1.66	.02			.09	.33	.90	.20	.07			.04	.02	5.70	
Beaver Falls|||	Beaver				.33	.02	.02			.12	T.	.28	.01			.50	.23	.07	.12	1.52	.01			.01	.30	.30	.25	.03			.05	T.	4.17	
Bradford	Allegheny															.50	.30	.25	.05	.45	.45				.75	.20	.25	.20			.20		4.70	
Brookville	do		.15	.10	.80						T.	.05				.50	.30	.25	.05	.45	.45				.75	.20	.25	.20			.20		4.30	
Butler	Ohio		.01	.48		.01			.02		.27	T.		.04	.03	.38	.14	.24	1.19	.04			.03	.40	.66	.26	.13			.01	.01		3.79	
Claysville	do				.37		.03		.24		.21	.10	.01	.01	.15	.20	.39	.08	.21	.16	.12			.26	.06	.09	.50	.02		.03		.55		
Cloett	Allegheny		.09		.72	T.					.16				.43	.08	.16	T.	.30	1.35				.70	.65	.10	.43			.13			5.30	
Clymer††	Conemaugh		.04		.48		.08		.03		.21		.03		.28	.24	.29	.09	.42	1.01				.26	.16	.56	.51		.08	.07			4.84	
Confluence|||	Youghiogheny	.30			.08	.28	.06			.44		.18	.06	.04		.08	.42	.34	.24	.26	.42				.13	.10		.36	.48			.03	.45	4.75
Coraopolis|||	Ohio			T.	.43	T.	.05			.41	T.	.23	.03			.07	.40	.22	.07	.05	1.42	T.			.13	.19	.32	.06	.10			.04	.08	4.30
Corry	Allegheny		.24	.02	.38	T.	.01		.21	.25	.15	T.			.22	.58	.36	.07	.31	.19	.04		.07	1.52	.57	.54	.25	.02		T.	T.	.05	6.05	
Coudersport	do		.12		.96					.12	.24				.49	.40							.58	.70	.60	.52	.32			.12	.22		5.39	
Creekside	Allegheny		.03		.75		.06		.28		.09				*	*	*	1.10	*	1.46				.10	*	*	1.09			.15	.09		5.13	
Derry	Conemaugh			.33				.29		.19	T.				.32	.06	.32	.09	.92	.91				.08		.12	.48			.06			4.17	
Donora	Monongahela			.40		.02		.40		.43					.09	.44		.03	.22	.29				.23	.13	.05	.60	.15			.01	.19	3.68	
Ebensburg	Conemaugh			.21		.03		.09		.28		.10			.31	.16	.21	.24	.42	.81				.21	.08	.34	.28			.10	.20		4.07	
Elk Lick	Youghiogheny			.05	.30		.10		.43		.20	.25	.38	.02		.40	.40	.60	.23	.74			1.25	.30		.08	.90		.23		.37	7.23		
Falls Creek	Allegheny		.11	*	.65					.30					.43	.23	.21	.07	.19	.38	.16			.53	.36	.48	.27			.15			4.52	
Franklin|||	Allegheny		.20	.44	.03					.30	.04				.05	.15	.44	.09	.23	.64	.06			.50	.30	.36	.33	.18			.02	.02	4.38	
Freeport|||	Allegheny			.55	.10				.33		.38	.01			.22	.33	.26	.20	.18	.20				.25	.55	.25	.05			.20	T.		4.06	
Greensburg	Youghiogheny	T.	T.	.39		.03		.10	.09	.27	.03	.02	T.		.44	.07	.32	.06	.41	.47				.29	.10	.07	.34	.01		.05	.04	.21	3.81	
Greenville	Beaver		.26	.02	.26				T.	.32	.04	T.			.59	.22	.57	.02	.19	.57				.58	.02	.79	.22	T.		T.			4.67	
Grove City	Beaver		.24	.02	.49			.02		.36		.01			.27	.22	.44	.03	.33	.65				.64	.17	1.60	.16	.01		T.	.01	.50	6.17	
Herr's Isl. Dam|||	Ohio		T.	.50	.01	.06			.35	.01	.26	.04	T.		.12	.35	.24	.13	.09	.99	T.			.01	.15	.35	.04	.16			.03	.33	4.22	
Indiana																																		
Ingram	Conemaugh																																4.36	
Irwin	Ohio	T.		.50		.08		.40	T.	.28	.04	.05			.24	.15	.32	.05	.36	.71				.21	.22	.09	.40	T.		.05	.01	.20	3.47	
Irwin	Youghiogheny			.45				.45	T.	.30	.03	T.			.56	T.	.13	.01	.30	.68				.16		.04	.11	T.		.05	T.	.20	3.48	
Johnstown	Conemaugh			.41		.06		.48	.03	.20	.06	.06	.08		.28	.08	.27	.33	.63	.23	T.			.21	.01	.01	.48		.25	T.	.22		5.02	
Kregar|||	Youghiogheny		.10	.37	.04			.28		.28	.03	T.	.04		.91	.31	.44	.27	.35	T.				.21	.12	T.	.16	.65		.06	.40	T.	5.41	
Linesville|||	Beaver		.18	.33						.26	.02				.13	.14	.47	.04	.26	.37	.03			1.45	.66	.66	.18	.11			.12		3.21	
Lock No. 4|||	Monongahela			.35	.07	.05			.35		.41	.02			.08	.41	.21	.10	.08	.33	T.			.02	.06	.09	.08	.31			.01	.18	2.87	
Lycippus	Conemaugh			.39				.31		.07					.13	.06	.53		.51	.12				.31		.13				.07			3.86	
Mount Lebanon	Ohio			.49		.10		.41		.23	.02	.03			.23	.36	.26	.04	.28	.55				.28		.20	.20			.06			4.10	
New Castle|||	Beaver		.43					.36		.04				.15	.30	.60	.03	.12	.76				T.	.52	.72	.10	T.			.07	T.		2.50	
Newell	Monongahela			.23	.02	.04		.31		.11	.01				.22	.13	.31	.05	.30	.07				.18	.02	.04	.27	.12		.01	.06		4.10	
Parkers Landing|||	Allegheny		.15	.46	.02				T.		.15	T.			T.	.25	.30	T.	.23	.60	.04			.30	.52	.82	.15	.06			.05	T.		
Pennline|||††																																		
Pittsburgh***	Ohio	T.	T.	.42	.03	.03		.35	T.	.23	.03	T.			.26	.14	.26	.01	.30	.69				T.	.14	.16	.03	.32			.03	.31		3.74
Ridgway	Allegheny																																	
Saegertown|||	Allegheny		.11	.67				.14	.28	.04					.19	.61	.29	.04	.34	.30	.02		.41	1.10		.64	.14	.04			.11		5.47	
Saltsburg|||	Conemaugh		.20	.15				.43		.18					.23	.50	.18	.22	.45	.78				.02	.15	.07	.10	.23			.09	T.	3.98	
Sharon|||	Beaver		.06	.30				T.	.23	.10	T.				.02	.25	.56	.07	.16	.76	.02			T.	.92	.38	.29	.02			T.		4.14	
Somerset																																		
Springdale|||	Youghiogheny			.35	.18	.06		.28		.32		.08			.22	.14	.23	.12	.62	.10				.25		.16	.60	.15		.08			3.94	
Springdale|||	Allegheny		.46	.07	.07			.40		.30	.03				.22	.35	.24	.12	.15	1.11	.04			.04	.14	.17	.07	.15			.05	T.		4.18
Uniontown	Monongahela		.03	.31		.06		.31		.24		.02			.48	.15	.49	.08	.47	.05				.33	.01	.33	.80	.02		.01	.11		4.30	
Unity Reservoir††	Youghiogheny			.77		.05		.30		.15	.05				.40	.05	.37	.10	.40	.25				.28	T.	.15	.45			.08			4.09	
Vandergrift	Conemaugh		.02	.44	.03	.05		.23		.12	.01				.45	.16	.28	.02	.51	1.04		.03		.20	.07	.28	.10			.06			4.10	
Warren	Allegheny		.06	.40	.35	.02		.51	.36	.06		.10			.10	.50	.43		.30	.21				.60	1.00	.14	.60	.10	.08		.06		6.04	
Washington																																		
Westford|||	Ohio		.25		.28				.08	.20	.04				.28	.58		.17	.08	.44	T.			.72	.57	.41	.08				.10		4.28	
West Newton|||	Beaver			.30	.10	.03		.33		.22					.12	.35	.16	.10	.06	.42				.31	.36	.10	.14	.55			.06	.60	4.31	
Zellenople|||	Youghiogheny														.03	.45	.32	.08	.02	1.69	T.			.07	.31	.37	.25	.05			.03	.58		5.08
Zellenople|||	Ohio			T.	.40	T.	T.		.12	T.	.30	.01																						
Lake Drainage.																																		
Erie***	Lake Erie		.21	.02	.25				.10	.10	.01	T.			.20	.38	.28	.06	.12	.29														

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloesville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline

Daily Temperatures for May, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	65	64	74	64	71	72	71	66	64	82	76	62	61	65	62	55	65	66	55	70	73	76	77	59	59	73	63	71	76	73	68	67.7
.....	Minimum	35	40	44	48	47	47	47	46	49	51	56	58	48	43	48	41	44	51	52	50	45	50	57	50	48	50	49	42	41	49	56	47.8
Altoona.....	Maximum	62	61	78	68	68	72	73	69	86	81	71	57	59	59	50	49	59	61	58	69	75	87	79	82	73	64	62	67	65	61	73	67.7
.....	Minimum	32	37	48	52	43	50	42	44	49	58	50	44	44	42	41	40	44	47	52	49	46	52	61	65	51	44	33	39	53	58	47.4	
Beaver Dam.....	Maximum	65	62	73	72	70	69	72	71	87	85	78	56	62	63	56	51	64	64	65	65	84	83	86	82	81	75	60	68	68	79	78	70.8
.....	Minimum	30	30	46	53	41	51	41	50	53	60	50	46	46	46	39	45	50	54	47	46	52	62	63	63	52	40	36	44	51	57	48.1	
Brookville.....	Maximum	63	58	73	70	66	71	71	.....	86	76	57	54	61	63	46	46	61	60	58	68	84	90	75	80	71	64	60	71	63	68	.....	67.0 ^b
.....	Minimum	24	29	40	39	36	40	33	.....	36	49	45	44	36	38	42	38	42	48	49	42	40	50	59	58	49	44	29	28	33	42	.....	40.8 ^b
Butler.....	Maximum	62	62	75	71	68	71	73	62	88	79	56	56	62	62	49	48	62	60	68	69	89	89	75	83	74	65	61	71	66	72	74	68.4
.....	Minimum	38	46	52	41	45	39	47	54	61	53	45	45	43	44	38	40	46	53	47	46	62	66	63	64	53	41	32	39	51	55	34	47.8
Carlisle.....	Maximum	69	69	82	71	79	76	78	72	75	84	77	71	62	61	59	55	66	64	59	77	78	84	81	78	59	71	69	78	76	71	75	71.8
.....	Minimum	35	40	48	54	45	51	56	41	50	54	57	51	50	43	44	46	44	49	51	44	55	66	55	50	54	49	37	44	57	65	49.5	
Catawissa.....	Maximum	69	70	75	64	74	77	74	73	75	87	76	62	61	57	59	53	65	63	52	71	75	83	75	74	72	64	72	71	75	78	70.0	
.....	Minimum	29	36	42	47	48	49	41	37	49	49	57	49	43	38	44	44	42	49	47	50	40	53	54	54	48	48	44	34	37	48	57	45.5
Chambersburg.....	Maximum	66	63	79	73	74	73	73	71	78	80	75	66	61	60	57	53	63	61	69	74	74	80	79	84	79	67	67	70	65	69	71	70.1
.....	Minimum	31	37	45	54	49	52	48	44	51	52	55	51	49	43	45	46	46	49	55	52	47	51	64	60	51	53	49	36	45	57	61	49.3
Claysville.....	Maximum	66	72	80	75	74	72	74	72	91	87	77	57	66	65	58	49	65	66	74	72	91	89	87	86	84	76	66	69	84	80	74.2	
.....	Minimum	29	34	47	55	41	52	41	48	55	62	52	45	44	47	42	38	43	53	58	49	47	62	65	63	64	49	43	35	48	53	58	49.1
Clearfield.....	Maximum	65	60	72	74	68	77	76	76	91	86	76	53	62	54	57	50	64	60	66	78	86	92	79	87	85	73	72	79	60	62	76	71.6
.....	Minimum	29	31	44	52	49	48	47	39	51	54	46	46	45	39	41	39	45	48	48	54	54	63	64	57	51	43	31	37	36	45	45.5	
Coatesville.....	Maximum	64	66	75	74	74	70	76	64	73	81	77	66	64	69	63	56	65	65	60	71	73	75	82	73	63	74	63	69	75	72	68	69.7
.....	Minimum	42	42	44	54	50	50	52	40	49	55	60	53	48	39	47	35	44	48	52	52	43	54	63	49	50	56	49	39	56	57	48.5	
Corry.....	Maximum	57	60	65	70	60	65	65	72	84	81	69	48	58	61	51	51	59	64	61	64	82	86	80	78	74	64	55	66	65	68	66	66.1
.....	Minimum	28	41	44	45	44	41	36	58	51	60	45	42	38	40	35	41	48	47	45	44	56	62	66	61	46	36	30	40	51	55	45.7	
Emporium.....	Maximum	63	57	70	66	65	68	67	64	84	78	62	57	60	58	61	60	61	64	56	67	80	87	73	77	70	66	.....	.....	.....	.....	.....	67.0 ^a
.....	Minimum	25	34	40	50	40	43	36	36	52	53	50	46	46	40	44	40	40	49	47	49	42	51	62	65	55	48	.....	.....	.....	.....	.....	45.5 ^a
Erie.....	Maximum	55	58	67	66	61	61	63	67	85	80	57	50	58	59	48	49	60	60	67	60	70	85	79	65	68	60	54	58	64	73	66	63.3
.....	Minimum	36	45	48	52	49	49	46	50	56	57	47	45	46	48	39	45	52	47	46	50	59	61	55	55	46	44	41	50	54	47	48.6	
Franklin.....	Maximum	60	57	71	70	65	68	70	67	86	78	57	52	63	60	46	50	62	67	62	70	88	88	76	79	73	62	59	73	64	72	72	67.3
.....	Minimum	29	40	44	49	40	43	36	41	51	59	50	44	42	40	36	39	47	47	47	45	55	63	59	63	52	38	33	37	53	59	46.0	
Freeland.....	Maximum	58	62	71	62	70	71	63	69	67	77	71	58	58	57	57	54	60	64	55	63	71	77	76	66	60	70	54	63	74	74	77	65.5
.....	Minimum	32	38	48	49	42	49	42	40	43	56	55	42	40	40	38	40	40	44	47	42	48	60	45	42	48	38	34	40	50	51	43.8	
Gettysburg.....	Maximum	67	63	80	80	78	75	76	56	81	78	75	64	62	62	60	67	66	69	77	75	80	81	88	76	75	69	73	70	71	.....	71.9 ^a	
.....	Minimum	37	44	48	51	50	54	50	45	64	58	51	45	43	44	45	45	49	59	53	52	46	52	56	52	50	54	52	33	40	45	.....	48.4 ^a
Greensburg.....	Maximum	63	63	77	70	69	72	72	70	87	75	70	56	63	63	63	47	61	62	73	70	87	87	80	84	80	72	63	71	68	80	72	70.6
.....	Minimum	40	38	48	55	45	52	44	50	54	62	53	46	45	47	44	40	44	51	58	49	50	67	65	66	65	51	44	36	45	56	60	50.6
Grove City.....	Maximum	58	57	68	69	70	63	66	66	84	83	75	49	59	59	50	46	60	60	61	63	76	82	82	77	77	69	54	64	63	67	66	65.9
.....	Minimum	32	38	46	52	40	44	45	46	52	60	48	44	44	45	34	34	40	48	49	45	49	60	62	60	61	49	31	32	44	46	56	46.3
Hamburg.....	Maximum	60	62	75	74	70	72	72	72	81	79	73	61	57	61	54	64	60	60	71	73	76	77	75	58	72	65	70	72	71	70	68.6	
.....	Minimum	36	37	44	52	47	43	44	40	42	53	54	45	49	39	37	36	44	45	49	51	41	49	55	49	47	55	47	39	37	55	58	45.8
Harrisburg.....	Maximum	66	65	77	64	74	72	72	58	70	80	74	64	61	57	59	62	64	58	58	73	71	78	78	68	61	70	67	73	68	69	70	67.5
.....	Minimum	40	48	50	50	49	54	52	49	50	58	57	54	50	47	48	48	51	52	58	48	55	62	50	50	51	50	46	48	57	59	51.2	
Hawley.....	Maximum	64	62	67	60	68	69	67	66	66	77	71	68	58	60	62	54	63	63	61	64	77	81	75	61	59	70	59	66	77	77	73	66.6
.....	Minimum	27	32	30	45	44	47	34	31	48	51	55	46	37	44	37	43	40	43	50	36	52	61	47	45	46	43	33	32	44	52	42.6	
Huntingdon.....	Maximum	67	66	78	69	71	76	75	66	84	84	71	60	61	59	.....	56	64	63	63	74	73	87	80	87	76	70	66	74	63	68	76	70.9 ^a
.....	Minimum	31	34	46	52	40	50	40	51	57	55	49	48	42	.....	44	48	48	53	52	43	53	63	69	53	52	46	31	39	55	61	48.3 ^a	
Indiana.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum	65	63	80	71	74	76	80	60	91	80	67	57	64	61	51	47	64	65	73	72	86	92	79	89	75	65	66	76	60	70	73	70.7
.....	Minimum	34	37	47	54	56	52	44	45	42	58	53	48	46	47	45	41	45	49	59	50	46	58	65	65	63	49	45	37	43	5		



CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

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No. 6

GENERAL SUMMARY.

The temperatures were unseasonably low during the greater portion of the month with a short warm period near its close. Frosts occurred at many places on the 2d and again on the 16th, doing considerable damage to tender vegetation, but not much to the hardier crops. Severe thunderstorms occurred on the 4th with some resulting damage by lightning and some by the washing of fields, the rainfall exceeding 1.00 inch per hour in some places. A severe thunderstorm swept the Wyoming valley on the 26th, and several buildings were damaged by lightning. Considerable damage was also done by wind and excessive rainfall. Taken as a whole, the month was not very favorable for crops, and the growth was generally slow. This was especially true of corn and most truck crops. Some improvement was made during the last week. Conditions were more favorable for wheat and oats. Wheat filled well generally, and was turning color at the end of the month. There were some complaints of damage by the fly, and smut was reported in some places, but on the whole the crop seemed fair to good. Oats generally did well. The first crop of hay was mostly harvested in the southern counties by the end of the month, while cutting was in full swing elsewhere. Yields were generally good and the hay was being cured mostly in favorable weather and with small losses. Early potatoes were exceptionally fine. The striped beetles did less damage than usual and there were few reports of blight. Reports on orchard fruits were not encouraging. Early damage by frost had been heavy, and apples were falling badly. The outlook was for light yields and only fair quality. Blackberries and raspberries were the finest for several years.

TEMPERATURE.

The mean temperature for the State, as determined from the reports of 86 stations, was 63.8°, which is 4.4° below the normal June temperature in Pennsylvania. The highest monthly mean was 69.2°, at Philadelphia-Germantown, while the lowest was 55.6°, at West Bingham. Daily extremes ranged from a high of 99°, at Lewisburg on the 29th, to a low of 25°, at West Bingham on the 16th. The greatest daily range of temperature was 53°, at Lewisburg on the 29th.

PRECIPITATION.

The average precipitation for the State, as computed from the reports of 138 well-distributed stations, was 3.72 inches: a deficiency of 0.38 inch when compared with the June normal. The greatest monthly total was 6.78 inches, at Palmerton, while the least, 1.59 inches, was recorded at Erie. The greatest amount recorded in any 24 consecutive hours was 3.40 inches, at Holtwood on the 19-20th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total move- ment, in miles	Velocity, in miles per hour			
				5 a. m.	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	297.6	455.1	65	78	75	74	7,787	10.7	55	se.	4
Harrisburg.....	275.3	448.9	61	69	55	60	4,710	6.5	31	s.	25
Philadelphia.....	294.1	448.9	66	76	63	69	6,064	8.4	28	n.	26
Pittsburgh.....	258.8	452.0	57	75	57	60	7,420	10.3	48	nw.	4
Reading.....	252.6	448.9	56	67	50	61	4,356	6.0	33	se	
Scranton.....	317.3	452.0	70	75	48	58	4,754	6.6	30	s.	25

* For any five-minute period.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	of inch or more prec.
1888.....	68.4	100	30	3.04	6.90	1.08	.....	.....	.....	9
1889.....	66.7	95	33	5.43	10.04	2.71	.....	.....	.....	15
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7	9
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8	11
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10	13
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5	10
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7	9
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9	11
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8	11
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5	9
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6	9
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7	10
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7	10
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7	13
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13	15
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8	13
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9	13
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7	13
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10	12
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2	7
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9	13
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10	11
1911.....	68.3	99	38	4.71	10.11	2.13	12	10	8	12
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4	7
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6	9
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8	11
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9	15
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7	14
1918.....	66.0	98	29	3.42	2.65	0.44	13	11	6	10
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5	10
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7	13
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4	8
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8	13
1923.....	70.9	103	32	2.73	7.99	0.41	16	9	5	9
1924.....	65.8	98	26	5.57	9.75	2.23	11	11	8	15
1925.....	71.9	104	29	3.04	7.02	0.62	16	11	3	9
1926.....	64.1	94	23	3.63	6.56	1.20	13	10	7	12
1927.....	63.8	99	25	3.72	6.78	1.59	15	8	7	9

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.0	4.5	1	2.1	17	28
Phillipsburg.....	Delaware.....	3.2	5.0	20	2.0	20	22
Mauch Chunk.....	Lehigh.....	-1.9	1.3	21	-2.8	13	12
Wilkes-Barre.....	Susquehanna.....	3.5	7.1	1	2.3	15	20
Williamsport.....	Susquehanna.....	3.2	6.0	6	1.4	30	20
Harrisburg.....	Susquehanna.....	4.9	6.4	1	4.0	30	17
Freeport.....	Allegheny.....	5.2	12.2	5	3.1	27	22
West Newton.....	Youghiogheny.....	2.5	9.8	5	1.2	25	20
Lock No. 4.....	Monongahela.....	15.2	22.0	5	13.4	13	31
Pittsburgh.....	Ohio.....	12.3	19.6	5	10.8	27	25
Beaver Dam.....	Ohio.....	9.5	18.9	6	7.4	28	30

Climatological Data for June, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown	Lehigh	254	15	63.6 ¹	.....	95 ¹	29	43	2	36 ¹	5.53	+2.09	3.00	0	11	20	8	2	s.	John A. Frick.
Altoona	Blair	1,615	40	62.2	-4.0	92	30	36	2	34	3.68	-0.24	1.32	0	10	17	8	5	w.	Lewis E. Biller.
Arendtsville	Adams	700	.....	65.3	.....	95	30	43	2	34	4.48	.....	1.13	0	9	18	6	6	n.	S. W. Frost.
Bethlehem	Northampton	295	43	66.8	-3.0	94	29 ¹	48	6	34	4.54	+0.37	2.32	0	8	14	11	5	w.	Lehigh University.
Bustleton	Philadelphia	125	8	66.8	.....	95	29	40	2	38	2.49	.....	0.67	0	7	15	9	6	w.	Experiment Station.
Carlisle	Cumberland	467	60	67.0	-3.9	95	29	41	2 ¹	42	3.82	-0.02	1.63	0	6	19	5	6	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	64.3	-3.4	95	29	37	2	41	4.57	+0.68	1.35	0	10	21	5	4	.....	H. H. Yetter.
Center Hall	Center	1,272	31	59.6	-6.5	90	30	30	16	39	3.38	-0.62	1.75	0	7	22	4	4	.....	S. W. Smith.
Chambersburg	Franklin	580	27	65.0	-4.4	92	29	40	2	39	4.71	+0.70	1.82	0	8	13	8	9	ne.	William B. Spear.
Clearfield	Clearfield	1,120	17	62.6	-4.7	96	30	34	2	45	3.90	-1.16	1.60	0	7	14	9	7	w.	E. W. Hess.
Coatesville	Chester	380	39	66.0	-3.9	92	29	37	2	35	3.34	-0.70	0.89	0	7	13	12	5	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	63.7	-5.4	90	29	38	2	34	6.39	+2.39	2.04	0	5	17	7	6	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	60.5	-5.7	92	29 ¹	34	6	42	3.47	-1.06	1.24	0	7	17	8	5	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	65.8	-2.2	92	29	40	2	37	4.80	+0.58	1.26	0	7	16	9	5	sw.	Ira J. Keath.
Freeland	Luzerne	1,970	12	61.4	.....	88	29	38	6	33	4.65	.....	0.95	0	12	9	12	9	sw.	Theo. Reichmann.
George School	Bucks	190	20	66.0	-1.7	94	29	40	1 ¹	38	3.38	+0.15	0.66	0	10	20	4	5	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	53	67.9	-1.7	95	29	43	2	39	3.76	-0.14	1.60	0	6	14	10	6	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	23	61.8	-3.4	91	29	32	2	42	4.26	-0.14	1.12	0	7	17	7	6	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	3	58.6	.....	84	10 ¹	34	3 ¹	35	3.96	-0.77	1.24	0	9	18	8	4	w.	Gustav Holtz.
Hamburg	Berks	535	34	63.8	-5.7	94	29	37	3	41	3.77	-0.45	1.29	0	10	16	10	4	w.	State Sanatorium.
Hanover	York	600	23	66.0	-4.7	91	29	43	6	33	2.40	-1.33	1.06	0	7	22	2	6	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	66.3	-4.0	93	29	46	2	32	3.89	+0.34	1.22	0	9	7	12	11	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	8	62.3	.....	92	29	33	2	41	2.80	.....	0.71	0	7	16	9	5	w.	J. S. Pennell.
Holtwood	Lancaster	200	12	66.4	.....	91	30	48	16	27	4.94	+1.81	3.40	0	8	11	15	4	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	64.2	-4.0	97	30	36	2	43	3.66	-0.82	1.19	0	9	14	10	6	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	64.8	-2.6	96	30	37	16	44	3.79	+1.53	1.25	0	7	18	13	9	.....	John S. Madore.
Lancaster	Lancaster	255	39	65.2	-4.9	95	29	38	2 ¹	44	4.31	+0.32	1.12	0	7	18	10	2	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	62.6	-2.6	93	29 ¹	35	2	40	2.64	-1.25	1.06	0	8	20	7	3	.....	C. P. Darling.
Lebanon	Lebanon	469	86	65.9	-3.4	93	29	42	2	36	4.96	+0.90	1.18	0	11	16	11	3	nw.	S. B. Benzing.
Lewisburg	Union	450	52	66.4	-0.8	99	29	40	16	53	5.47	+1.31	1.50	0	9	18	8	4	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	67.6	-1.8	98	30	39	2 ¹	44	4.25	-1.15	0.90	0	9	17	9	4	sw.	Joseph Beaver.
Lykens	Dauphin	680	12	63.6	-4.6	92	11	34	2	41	4.75	+0.17	1.10	0	12	20	5	5	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	64.0	-3.8	93	29	36	16	42	6.28	+1.98	1.41	0	10	19	6	5	w.	R. K. Wintermute.
Mifflintown	Juniata	445	23	64.0	-3.8	87	10 ¹	37	2	38	3.61	-0.75	1.14	0	9	18	5	7	w.	Wellington Smith.
Montrose	Susquehanna	1,720	24	61.5	-1.2	85	29	36	2 ¹	33	3.02	-0.80	0.88	0	7	11	14	5	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	57.8	-3.8	88	29	34	16	34	5.32	+0.53	1.60	0	10	13	7	10	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	15	65.2	-0.5	95	29	42	13	39	3.24	-1.86	0.90	0	9	15	10	5	w.	A. H. Boatman.
Narberth	Montgomery	300	8	66.8	.....	93	29	44	2	33	3.61	.....	0.97	0	8	13	11	6	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	65.0	-4.2	93	29	40	2	38	1.77	.....	0.70	0	8	19	5	6	w.	North Springfield Water Co
Palmerton	Carbon	398	10	64.8	.....	95	29	39	2 ¹	36	6.78	.....	3.38	0	11	12	14	4	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	68.6	-2.8	94	29	51	6	29	3.48	+0.18	1.03	0	8	7	12	11	sw	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	2	69.2	.....	95	29	50	2	30	2.44	.....	.....	0	6	13	12	5	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	67.8	.....	93	29	49	2 ¹	28	3.47	.....	0.86	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	68.8	.....	93	29	46	6	29	3.00	.....	1.22	0	8	8	16	6	w.	Atlantic Refining Co
Phoenixville	Chester	100	16	67.2	-4.3	94	29 ¹	40	2	36	3.28	-0.38	0.86	0	8	22	5	3	s.	North Springfield Water Co
Quakertown	Bucks	496	42	65.2	-3.0	94	29	39	3	39	3.19	-0.47	0.75	0	11	14	10	6	nw.	John E. Benner.
Reading	Berks	325	57	66.8	-3.0	94	29	48	4	31	4.39	+0.72	1.79	0	10	13	10	7	w.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	63.2	-4.6	92	29	39	2	34	4.07	+0.50	1.46	0	10	13	7	10	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	63.9	-5.1	92	29 ¹	38	2	46	3.34	-0.91	1.05	0	10	18	6	6	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	67.6	.....	90	29 ¹	43	2	29	3.06	-0.41	1.01	0	7	15	10	5	nw.	W. S. Guiles.
State College	Center	1,217	42	63.4	-3.1	93	30	38	16	35	3.86	-0.51	1.31	0	9	13	11	6	w.	C. A. Kern.
Stroudsburg	Monroe	500	.....	63.4	.....	93	29	36	2	41	4.23	.....	1.54	0	9	22	4	4	nw.	State Normal School.
Towanda	Bradford	754	32	61.6	-3.7	90	29	35	2	35	2.26	-1.33	0.67	0	9	13	9	8	n.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	61.2	-3.3	94	29 ¹	33	2 ¹	44	2.65	-1.40	0.96	0	6	24	3	3	w.	George W. Hill.
West Chester	Chester	455	89	66.0	-3.4	94	29	44	2	33	4.06	-0.13	1.35	0	9	17	8	5	w.	Arthur M. Hay.
Williamsport	Lycoming	521	40	65.8	-2.7	98	29	39	2	43	3.39	-0.51	0.85	0	12	17	7	6	nw	Miss Veronica E. April.
York	York	400	39	66.0	-3.9	96	29	39	2 ¹	44	2.15	-1.33	1.06	0	5	20	6	4	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	63.8	-6.5	93	30	37	2	39	3.22	-1.43	1.37	0	11	5	6	18	ne.	U. S. Engineer.
Bradford	McKean	1,427	12	.....	.....	92	30	30 ¹	2	47 ¹	3.85	-0.40	2.25	0	5	20	6	4	.....	City Engineer.
Brookville	Jefferson	1,173	36	58.2 ⁵	-5.3	92 ¹	30	30 ¹	2	47 ¹	3.85	-0.40	2.25	0	5	20	6	4	.....	John Fawcett.
Butler	Butler	1,152	2	62.7	.....	94	30	34	1	35	3.92	.....	1.55	0	11	18	0	12	w.	Foraker Ferrell.
Claysville	Washington	1,150	23	65.1	-3.1	97	30	36	2 ¹	48	4.52	+0.37	2.17	0	9	15	9	6	s.	J. L. Melvin.
C																				

Daily Precipitation for June, 1927

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh				.67	.01					.16		T	.36	.60					.20	2.80			.12	.20		.02				.39	5.53	
Altoona	Juniata		.03	1.32	.09						.06			.86						.91	.02		.04		.12	.20		.02				3.68	
Ansonia|||	W. Br. Susq.			.59	.33			.09			T			.30	.13					.72	.54	.01	.03		.01			.34				3.68	
Arendtsville	Potomac		.90	1.13	.06			.01				.07	.90	.50						.72	.19	T					.19					2.94	
Baker's Summit	Juniata		.22	2.14	.25									2.26					.05	.90			.12	.09		.15						4.48	
Bethlehem	Lehigh			.88							.12			.92					2.32			.01	.09	.13					T	.07		4.54	
Bloersville||	Lower Susq.			1.52	T					.08				1.60					.55	.15	T					.50						4.40	
Bustleton	Lower Del.			.35	.42									.67	.02				.39	.39			.25							T		2.49	
Carlisle	Lower Susq.			1.17	T					T		T		1.63					.31	.43		T	.18		T	.10						3.82	
Catawissa	N. Br. Susq.			.55	T		.01				.15			1.01					1.25	.10		.02	.18		1.25	.05				T		4.57	
Center Hall	Susquehanna			.42						.02				.42					1.75	.40		.03				.34						3.38	
Chambersburg	Potomac		.11	1.25	.09							.02	.01	1.81					T	.99			T			.43						4.71	
Clearfield	W. Br. Susq.			1.60	.10						T	T		.84	.15		T		.70	.06					T	.45						3.90	
Coatesville	Lower Del.		.01	.76										.67					.75	.17			.89							.09		3.34	
Colebrook	Lower Susq.			.90	T		T				T			1.02					2.00	.43	2.04	T				T						6.39	
Conshohocken	Schuylkill			.59										.71					T	1.04		.69	T		.01				T	.04		3.08	
Cresson|||	Juniata		.06	1.20	.45									.84					.61	.08		.06	.02		.32							3.64	
Doylestown	Lower Del.	.01		.65	.25						.39			.69					.48	.04			.08	.08	.03					.02		2.72	
Driftwood|||	W. Br. Susq.				.75	1.00								.40	.20					.60						.35						3.30	
Emporium	do			1.24	.53						T			T					.49	.16		T			.32							3.47	
Ephrata	Lower Susq.			.85	.29									1.03	T				1.23	.12		.02	1.26		T						4.80		
Forest City	N. Br. Susq.	.51		.08	.62	.18					.09			.36					.27	.60						1.11				T		3.82	
Freeland|||	Lehigh			.53	.21	T	.03				.42			T	.51	.44			.21	.69	.01		.44	.22		.94						4.65	
George School	Lower Del.			.52	.42						.46			.66	.01				.61	.53		T	.06	.08	.03							3.38	
Gettysburg	Potomac			.15	1.10	.10								.18	1.60	T			.63			T										3.76	
Girardville	Susquehanna			.66	.12		.02							.90					.91	.05		T	.28	.09	.33	.39				.23		3.98	
Gordon	Lower Susq.			.78	.16						T	.20		.89					.65	.46		T				1.12						4.26	
Gouldsboro||	Lehigh	.08				.75					.56			.18					.82				.16	.12		1.24	.05					3.96	
Graterford	Schuylkill			.62	.43									.90					.42	1.03		T	.01			.04				.02		3.47	
Hamburg	Schuylkill			.72	.40						.17	.01		.72					1.29				.04	.10	.28	.04						3.77	
Hamlin	Upper Del.			.50	.25					.07				.05	.45				.12	.70			.17	.55		1.12						3.98	
Hanover	Lower Susq.		.12	.60	.17									.01	1.05				.41	.04												2.40	
Harrisburg**	do		T	1.00	T			T			T		T	1.22				.05	.69	.05		.79	T		.01	.02				.06		3.89	
Harrisburg East	do			1.02	.01			T				T	T	1.26					.80	.29		.20	.40			.04						4.02	
Harrisburg North	do				1.11									.83	.38				.66	.20	.01		.45	.23	.03							3.90	
Hawley|||	Upper Del.				.63	.08								.45					.27	.71			.03	.63								2.80	
Holtwood||	Lower Susq.	T		.03		.42	T							.23	.46				.30	3.40	.05		.05			T						4.94	
Huntingdon	Juniata			T	1.19	.07		T					.05	1.05					.88	.04		.12	.10			.16						3.66	
Hyndman	Potomac		.54	1.25	.01									.98					T	.80						.11						3.79	
Lancaster	Lower Susq.			1.03	.04									.88					1.12	.82					.40		.02					4.31	
Lansford|||	Lehigh			*	.82						.08			.50	.35				#	1.10			.11	.25		.80						4.01	
Lawrenceville	N. Br. Susq.			.45	.18									.33	.05				1.06			.12			.10							2.64	
Lebanon	Lower Susq.			.90	.11		T				T			.38	.49				1.18	.03		.79	.47		.03					.10		4.96	
Lewisburg	W. Br. Susq.			1.20	1.02									1.05	.01				1.50	.25		.11	.05		T	.28						5.47	
Lloyd	do			1.22	.04									.38					.42	.36						.24						2.66	
Lock Haven	do	.02		.90	.08									.83					.66	.19		.05	.07			.45						3.25	
Lykens	Susquehanna			.90	.50		.01				.35			1.10					.87	.46	.02	.04	.10	.29		.11						4.75	
Mauch Chunk	Lehigh			.81	.05					.02	.11			.88					1.41	1.09		.27	.72			.92						6.28	
Mifflintown	Juniata			1.14	.16						.04			1.01					.54	.32		.01	.03			.36						3.61	
Montrose	N. Br. Susq.	.05		.70	.16									.66	.40				.66		.17					.88						3.02	
Morris Run	N. Br. Susq.			.86	.23						.10			.39					.59	.34				.10		.40						3.01	
Mount Pocono	Upper Del.			.30	.28		.10	T			.69			.59	T				1.60	.65			.10	.30		.71				T		5.32	
Mount Union|||	Juniata																																
Muncy Valley	W. Br. Susq.			.75	.15						.10			.39					.90	.39		.13	.08			.35						3.24	
Narberth	Lower Del.	T		.44	.05									.65					.97	.60	T		.86			.01					.03	3.61	
Neshaminy|||	Lower Del.			.12	.10									T	.70				.25	.45	.0												

Daily Precipitation for June, 1927—Continued from page 28

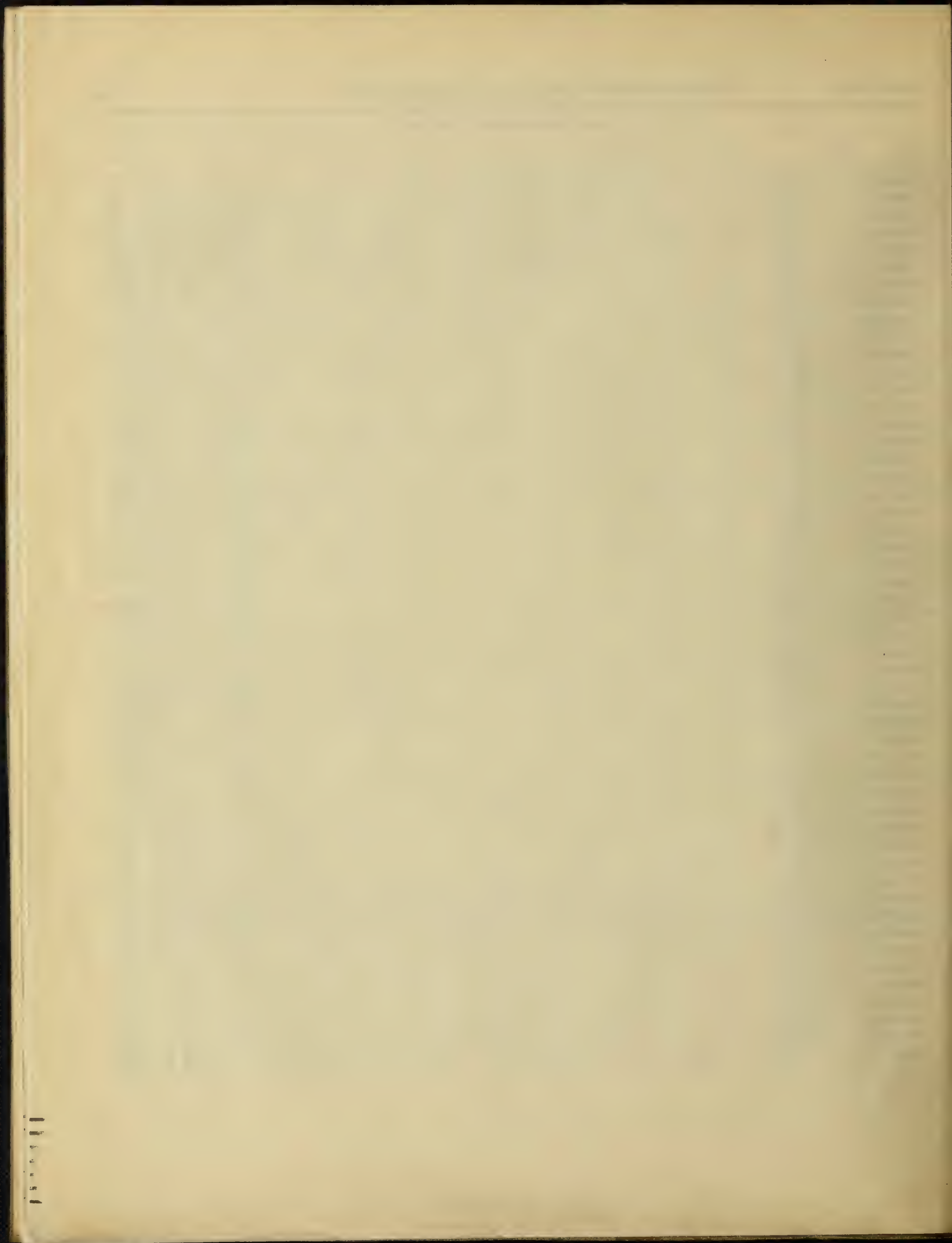
Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio				.55	.82	.07					.13			.49	.06			.34	.25			.02	.01			.48						3.22
Beaver Falls|||	Beaver				.59	1.05	.08					.74			.36	.03			.60	.28			T.	T.	.03		.35						4.11
Bradford	Allegheny																																3.85
Brookville	do				2.25	.35									.55					.35						.35							3.92
Butler	Ohio				.57	1.55	.06				.02		.01	.47	.02			.23	.26	*				.03		.70							4.52
Claysville	do				.15	2.17						.01		T.	.83			.08	.21	*			.17	T.		.90							
Cloeff	Allegheny				1.20	.11								T.	.84				.18	.28					.19		.23						3.03
Clymer††	Conemaugh				* 1.32							.02			.91				.36	.04			.30	.06		.36							3.37
Confluence|||	Youghiogheny	.03			.55	.10	1.15				.10			T.	1.20	.26			.52	.04			.13	.15		.18							4.41
Coraopolis|||	Ohio				T.	.40	.65	.19			.12	T.		T.	.57	.02			.03	.33	.01		T.	.01		.62							2.95
Corry	Allegheny	.01				.77	.15				.02		T.						.20	.30	.01		.07	.13	.04	.56	.30	.01					2.57
Coudersport	do				.58	.09								.41					.23	.25					.31								1.87
Creekside	Allegheny				*	1.17					T.				.85					.43			.15	.08		.40							3.08
Derry	Conemaugh				.46	2.97	.05					.08			.92				T.	.47	.03					.45							5.43
Donora	Monongahela				.21	.84	.36								.86	.01			.05	.44			.01	.13		.68							3.59
Ebensburg	Conemaugh				.07	1.33	.25				.02				1.01				T.	.69	.05		.08			.53							4.03
Elk Lick	Youghiogheny				.72	1.65						.05			1.15				.28	.45			.78			.48							5.56
Falls Creek	Allegheny				2.01	.17									.56				.59						.37								3.70
Franklin|||	Allegheny				.56	.54	.04								.17				.06	.54	.07			.03	.05	.54							2.60
Freeport|||	Allegheny				.42	.72	.07								.79	.05			.06	.40	T.		.04			.22							2.77
Greensburg	Youghiogheny		T.	.08	2.46	.11					T.	.05		T.	.96				.09	.56	T.		.01	T.		.38							4.70
Greenville	Beaver				1.09	.06					T.				.22	.23			.10	.49	.01		.02	.73	T.	.19	.03						3.17
Grove City	Beaver	.01			1.10	.13					.06	.24			.23				.19	.30			.26	.08		.48							3.08
Herrs Isl. Dam|||	Ohio				.03	.64	1.20	.11			T.	T.			.60	.05			.04	.37	T.		T.	T.		.47							3.51
Indiana	Conemaugh														.69					.04	.26	.30	T.			.68							3.36
Ingram	Ohio		T.	T.	1.14	.24					T.		T.		.82	T.			.12	.49	.02		.02	T.		.25							3.86
Irwin	Youghiogheny				.05	2.00	.08					.01		T.	1.23				.03	.87	.08		.08	T.		.40							4.94
Johnstown	Conemaugh				.15	2.00	.08				.02				.85	.52			.52	.04		.02	.14	.16		.75							5.14
Kregar|||	Youghiogheny		.32	.01	1.60	.21					T.				.15				.55	.13			.05		.02	.37							2.64
Linesville||	Beaver		T.	.83	.19	.04					.31																						
Lock No. 4|||	Monongahela	T			.25	.40	.95	.11								.05			.04	.55	.01		.02	.28		.72							3.38
Lycippus	Conemaugh				.18	1.68	.26					T.			1.27				.46							.62							4.47
Mount Lebanon	Ohio				T	1.70	.12				.02				.83				.20	.18					.75								3.80
New Castle|||	Beaver				1.11	.70	.02				.63				.57	.02			.12	.28	.01		.44	.03		.24							4.18
Newell	Monongahela				.24	1.55	.19								.92	.01			.09	.52		.01	.04			.58							4.15
Parkers Landing||	Allegheny	T.			.20	1.25	.28				.03				.30	T			.08	.40	.10		.12	.05		.40							3.21
Pennline|||††	Beaver				.88	.34	.11					.22	T.		.14				.06	.58	.11				.31								2.75
Pittsburgh***	Ohio		T.		1.15	.12					T.		T.		.66			.02	.24	.07			T.			.51							2.77
Ridgway	Allegheny																																
Saegertown|||	Allegheny				1.02														.01	.55				.01		.73							2.32
Saltsburg|||	Conemaugh				.54	.76									.90	.18			.35	.02				T.		.87							3.62
Sharon|||	Beaver				.79	T	.18					.12	.04	.02	.04				.13	.37	.02		T.	.06	.06		.80						2.63
Somerset	Youghiogheny				.42	.96	.21								1.55					.60	.10		.06	.08		.40							4.38
Springdale|||	Allegheny				.40	.70					.02				.65	.06			.07	.26	.01		T.	T.		.64							2.81
Uniontown	Monongahela				.30	.79	T.							T.	.95			.03	.12	.50	.01		.37	.05		1.16							4.28
Unity Reservoir††	Youghiogheny				2.95	.28					.12				.95				.15	.44			.08			.48							5.45
Vandergrift	Conemaugh				1.18	.03					.04				.70			.02	.14	.19					.22								2.52
Warren	Allegheny				.75	.41					.18				.02				.36				.32	.04		.88							2.96
Washington	Ohio		.12	.07	2.23	.09	.01							T	.86			.20	.25	.06			.04	T.		.89	.02						4.84
Westford|||	Beaver				.82	.35						.32			.15				.55	.10			.05	.36	.10	.41							3.21
West Newton|||	Youghiogheny	.01			.13	.28	1.20								.45	.05			.06	.60	.02			.06		.76							3.62
Zelienople|||	Ohio																																
Lake Drainage.																																	
Erie***	Lake Erie				.57	.24					T.		T.						.24	.20			.01	.05		.28							1.59
West Bingham	Genesee				.50	.14					T.		T.		.22					.42	.09		.12	.09	.09	.35	.32						2.34

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg.
† Mdt. to mdt.

Daily Temperatures for June, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	70	74	74	61	76	72	72	79	86	90	83	84	76	55	70	72	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	72.2
Altoona.....	Minimum	54	42	50	50	55	48	52	52	54	62	69	57	57	52	48	44	48	48	51	56	58	60	66	62	61	62	52	58	59	63	55.1	
Beaver Dam.....	Maximum	68	70	65	58	68	68	67	75	81	86	78	77	70	62	66	69	67	67	61	72	77	84	80	71	86	78	72	80	88	92	73.4	
Brookville.....	Minimum	45	36	51	52	52	38	48	45	53	55	60	52	41	49	47	38	45	54	54	55	55	62	64	56	53	60	41	46	58	69	51.1	
Butler.....	Maximum	74	69	68	78	78	65	73	77	82	86	83	80	68	65	67	70	76	73	63	75	84	83	80	78	86	84	75	84	91	93	76.9	
Carlisle.....	Minimum	44	37	50	57	55	40	42	45	50	55	54	52	42	50	43	41	46	55	52	52	52	68	65	54	53	56	45	46	52	64	50.6	
Chambersburg.....	Maximum	66	72	69	68	67	67	73	77	83	86	77	65	69	59	66	70	71	68	60	71	83	89	79	85	68	74	63	74	81	92	74.1	
Clearfield.....	Minimum	35	30	46	51	37	31	36	36	43	47	48	36	32	40	37	31	37	54	55	52	49	63	49	55	36	33	37	44	53	42.2		
Catawissa.....	Maximum	66	72	78	76	65	67	72	78	83	86	78	67	70	63	67	73	73	67	65	75	86	83	80	76	85	69	76	84	91	94	75.5	
Chambersburg.....	Minimum	34	49	55	56	36	40	43	49	56	55	52	38	49	40	37	44	57	53	56	49	69	67	55	52	56	39	42	49	61	60	49.9	
Claysville.....	Maximum	73	77	76	66	78	72	69	81	89	91	90	89	80	74	73	76	78	76	71	77	83	87	84	82	86	85	80	85	95	93	80.5	
Coatesville.....	Minimum	52	41	55	53	50	45	53	46	49	56	66	55	50	52	48	41	45	46	58	59	53	65	67	62	55	65	50	48	53	66	53.5	
Corry.....	Maximum	72	75	74	75	76	74	71	80	86	90	84	83	79	66	70	74	75	75	65	75	85	86	83	78	84	70	78	82	95	85	77.2	
Emporium.....	Minimum	49	37	48	51	50	39	49	44	50	55	62	60	44	49	48	39	42	50	54	57	50	65	62	58	52	64	43	46	54	70	51.4	
Franklin.....	Maximum	70	72	70	62	75	67	68	78	82	88	86	85	75	70	70	71	72	70	68	71	79	87	82	80	85	83	74	81	92	90	76.8	
Grovesville.....	Minimum	45	40	53	53	53	42	53	45	49	55	65	55	51	52	46	41	48	49	58	59	53	63	60	57	65	46	47	53	73	53.1		
Harrisburg.....	Maximum	74	71	72	79	77	67	77	81	86	88	85	74	74	69	71	75	78	69	64	78	89	85	84	81	88	87	88	87	95	97	79.7	
Lebanon.....	Minimum	44	36	51	59	57	36	47	45	50	58	58	53	41	50	36	36	46	55	51	49	58	59	66	55	55	56	40	43	55	62	50.5	
Lancaster.....	Maximum	80	79	69	63	67	73	77	81	87	88	82	71	75	63	69	78	72	72	64	76	85	87	81	88	89	82	79	88	82	96	77.5	
Lebanon.....	Minimum	46	34	49	50	37	35	49	41	43	51	54	52	39	50	42	36	41	53	55	57	54	62	48	54	56	50	39	48	51	55	47.7	
Lebanon.....	Maximum	68	72	74	63	80	71	69	78	85	88	83	85	76	66	69	73	76	75	66	72	82	83	85	77	83	80	76	81	92	85	77.1	
Lebanon.....	Minimum	51	37	54	51	58	48	55	50	57	67	70	57	57	52	46	43	44	48	59	54	60	68	65	61	64	53	51	58	61	55.0		
Lebanon.....	Maximum	62	68	73	70	69	64	68	74	80	82	76	72	67	63	62	66	71	68	60	68	81	82	78	71	81	72	68	79	88	89	72.4	
Lebanon.....	Minimum	42	36	43	52	47	35	38	40	49	56	62	49	52	40	39	35	38	52	53	53	52	61	64	51	57	54	39	40	56	65	48.1	
Lebanon.....	Maximum	64	70	71	61	67	69	71	75	82	85	77	62	70	60	64	68	71	71	62	73	82	85	79	75	85	68	71	80	91	91	73.3	
Lebanon.....	Minimum	46	35	42	43	47	34	42	43	49	50	54	46	37	50	41	37	39	50	57	58	55	67	63	58	50	50	40	38	50	59	47.7	
Lebanon.....	Maximum	59	63	74	72	60	61	66	74	79	83	69	62	65	64	63	64	70	69	60	67	84	79	72	64	81	66	69	78	84	89	70.3	
Lebanon.....	Minimum	46	45	54	55	50	44	48	55	64	62	54	53	49	55	51	46	51	55	55	60	69	57	54	62	55	49	52	64	83	73	54.9	
Lebanon.....	Maximum	64	74	70	75	65	70	72	76	82	84	78	62	68	66	61	72	73	68	62	76	83	84	76	77	84	69	76	84	93	93	74.6	
Lebanon.....	Minimum	44	35	45	54	53	37	39	41	50	54	50	52	40	48	40	38	40	49	52	54	50	60	65	53	52	49	40	43	51	59	47.9	
Lebanon.....	Maximum	65	68	71	63	71	68	68	75	84	85	78	71	69	62	63	70	73	69	60	73	81	79	80	74	75	72	69	77	88	80	72.8	
Lebanon.....	Minimum	45	40	47	47	51	38	48	48	56	60	58	50	44	46	44	39	46	48	50	54	53	58	60	52	52	54	44	51	55	60	50.1	
Lebanon.....	Maximum	68	76	68	63	80	72	69	82	87	90	87	90	85	74	73	75	73	75	73	70	72	80	86	85	81	84	83	76	82	95	91	79.0
Lebanon.....	Minimum	52	43	57	57	64	68	54	46	52	72	69	61	51	54	50	49	46	46	56	67	55	63	65	61	58	68	49	48	56	67	56.8	
Lebanon.....	Maximum	68	71	65	75	72	66	73	77	82	85	80	78	69	63	69	71	76	68	61	74	85	83	80	76	85	79	74	84	89	98	75.7	
Lebanon.....	Minimum	46	40	54	56	56	39	50	49	54	59	61	56	45	50	44	40	48	58	53	55	55	68	66	65	67	57	43	47	57	66	53.5	
Lebanon.....	Maximum	59	66	66	70	70	61	65	71	79	77	74	65	60	62	63	70	70	70	68	79	79	72	69	77	77	68	67	85	91	70.3		
Lebanon.....	Minimum	42	35	51	54	52	37	40	42	51	59	52	53	40	46	41	37	46	54	51	53	53	69	65	52	55	52	40	43	52	58	49.2	
Lebanon.....	Maximum	70	74	72	76	70	66	76	85	87	87	82	77	70	69	73	73	72	65	72	81	83	84	82	81	76	76	80	94	93	77.3		
Lebanon.....	Minimum	52	42	37	50	50	42	44	47	56	59	62	53	51	48	42	42	44	46	45	51	60	63	59	53	48	44	45	53	66	50.2		
Lebanon.....	Maximum	70	73	68	62	77	70	67	79	83	87	85	81	74	66	69	72	72	72	64	69	79	84	82	76	76	74	82	93	85	75.8		
Lebanon.....	Minimum	54	46	58	54	50	56	50	57	65	71	60	57	52	48	49	52	58	59	55	66	66	61	60	60	54	54	61	65	65	56.8		
Lebanon.....	Maximum	69	70	74	70	75	70	72	79	83	88	84	73	73	68	72	72	73	73	67	74	85	82	85	79	78	77	77	78	82	88	76.7	
Lebanon.....	Minimum	50	38	40	43	51	49	39	40	48	50	49	42	50	42	34	38	40	54	51	45	58	60	54	47	62	41	43	51	60	47.9		
Lebanon.....	Maximum	72	74	70	62	72	71	71	78	86	90	85	82	70	64	74	72	71	67	75	83	89	82	78	90	81	76	84	92	97	77.6		
Lebanon.....	Minimum	50	35	53	54	50	39	49	45	46	52	54	51	56	44	46	38	44	52	57	58	55	66	51	62	53	62	40	46	49	69	50.9	
Lebanon.....	Maximum	68	73	72	69	66	70	75	80	87	90	82	80	71	62	72	76	74	69	61	73	85	87	83	80	91	70	77	90	92	95	77.3	
Lebanon.....	Minimum	48	39	52	56	52	42	52	46	50	53	64	56	47	52	48	40	47	55	57	53	65	67	60	55	58	43	46	56	71	52.8		
Lebanon.....	Maximum	72	75	74	71	82	74	73	81	87	89	89	78	75	65	70	73	68	64	75	82	84	90	86	82	83	79	85	95	94	79.5		
Lebanon.....	Minimum	45	38	52	49	40	31	41	48	56	56	50	54	40	44	38	41	41	56	57	49	59	62	58	56	64	46	45	51	59	50.8		
Lebanon.....	Maximum	76	70	75	74	74	70	72	79	85	88	82	78	72	67	67	72	74	75	70	75	8											



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CHARLES F. MARVIN, Chief.

AUG 25 1927

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXII.

JULY, 1927.

No. 7

GENERAL SUMMARY.

The weather for July was freakish in some respects. The temperature mean was very nearly normal, but the lowest July temperature of record in the State, 29°, occurred at West Bingham on the 5th. The rains were mostly light or moderate during the first three weeks, and were followed by a period of excessive rains on the 22-23d, and another on the 30th-31st, which brought the average for the State considerably above the July normal. Numerous excessive local rains occurred during those storms. Lykens recorded 8.04 inches in approximately 12 hours. (The heaviest rate of rainfall known for the State was 7.50 inches in 4 hours at Stroudsburg on August 1, 1913.) Damaging local storms were reported during the month as follows: In New Castle and vicinity on the night of the 6-7th, damage was done by lightning, wind, and hail to the extent of more than \$100,000. In Stroudsburg and vicinity much damage was done by wind and lightning on the 14th, many trees being destroyed and telegraph, telephone, and electric light lines broken down. Along the northern border of Cumberland County rains in excess of 6.00 inches on the afternoon and night of the 22d caused many thousands of dollars of damage for which no reliable estimates could be secured. One of the heaviest hailstorms of record in the State occurred in Johnstown and vicinity on the 21st. Hail drifted to a depth of from 2 to 4 feet in some places, and more than 2000 windows were broken in the city. The damage done by storms was exceeded many times over by the benefit of the rains to the crops which were in need of moisture in most sections previous to the 22d. Pastures and truck crops were revived at an opportune time and soon recovered from the effects of the moderate drought that had prevailed. Some wheat was damaged in the fields, although the greater portion of the crop had been hauled into barns or threshed from the shock. Oats harvest was in full swing at the time of the rains, and there was more or less discoloring of the grain, but the damage was not serious. The outlook for orchard fruits was discouraging with light yields and inferior quality generally in prospect.

TEMPERATURE.

The mean temperature for the State, computed from the reports of 85 stations, was 71.7°, a deficiency of 0.2° when compared with the July normal. The highest monthly mean was 76.6°, at Philadelphia Point-Breeze, and the lowest was 62.6°, at West Bingham. The highest temperature recorded during the month was 100°, at Lebanon on the 13th, while the lowest, 29°, occurred at West Bingham on the 5th. The greatest daily range of temperature was 54°, at Clearfield on the 1st.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 139 stations, was 4.97 inches, or 0.62 inch in excess of the normal July rainfall. The greatest monthly total was 11.82 inches, at Lykens, while the least was 1.81 inches at Williamsport. The greatest amount recorded in any 24 consecutive hours was 8.04 inches, at Lykens, on the 22-23d.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total move- ment, in miles	Velocity, in miles per hour			
				8 a m.	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	286.7	461.4	62	68	61	69	4,649	6.2	18	se.	6
Harrisburg....	250.1	455.2	55	77	56	66	4,264	5.7	30	nw.	27
Philadelphia..	317.9	455.2	70	77	65	70	6,217	8.4	30	sw.	7
Pittsburgh....	286.0	458.3	62	75	56	59	6,964	9.4	44	sw.	14
Reading.....	232.3	455.2	51	72	53	64	3,480	4.7	24	nw.	27
Scranton.....	293.9	458.3	64	77	53	69	4,389	5.9	35	s.	21

* For any five-minute period.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	0.1 inch or more prec.
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7	8
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10	13
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5	10
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4	10
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5	7
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7	9
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10	14
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10	14
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7	9
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8	10
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5	11
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8	11
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9	15
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6	12
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8	13
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9	15
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6	10
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4	10
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5	11
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4	7
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4	7
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4	8
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8	11
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6	11
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8	12
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8	15
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7	10
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7	13
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5	9
1919.....	72.6	104	34	5.90	14.68	1.70	16	8	7	11
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6	11
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3	10
1922.....	71.9	98	38	3.68	7.58	1.45	14	10	7	9
1923.....	71.0	100	32	4.24	9.86	0.92	15	9	7	11
1924.....	69.7	97	34	3.42	7.12	0.71	17	10	4	9
1925.....	70.5	101	32	5.57	14.95	1.54	13	11	7	12
1926.....	71.8	105	35	3.82	10.63	1.14	15	9	7	10
1927.....	71.7	100	29	4.97	11.82	1.81	14	11	6	12

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.1	3.8	24	1.7	12	28
Phillipsburg....	Delaware.....	1.9	3.6	25	1.0	21	22
Mauch Chunk....	Lehigh.....	-2.7	-1.9	18	-3.2	22	12
Wilkes-Barre....	Susquehanna.....	1.6	2.4	1	1.2	17	20
Williamsport....	Susquehanna.....	0.9	1.9	25	0.6	20	20
Harrisburg.....	Susquehanna.....	3.9	6.1	23	3.5	15	17
Freeport.....	Allegheny.....	2.9	7.5	31	1.8	6	22
West Newton....	Youghiogheny.....	0.8	2.0	24	0.4	22	20
Lock No. 4.....	Monongahela.....	13.1	14.0	16	12.6	7	31
Pittsburgh.....	Ohio.....	10.4	10.9	25	10.0	6	25
Beaver Dam.....	Ohio.....	7.7	8.1	22	6.8	12	30

Climatological Data for July, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown	Lehigh	254	15	73.4		97	13	51	5	33	3.04	-2.01	1.31	0	15	21	8	2	s.	John A. Frick.
Altoona	Blair	1,615	40	69.3	-1.8	92	13	42	5	30	4.85	+1.58	0.92	0	16	19	8	4	w.	Lewis E. Biller.
Arendtsville	Adams	700		73.2		96	14	45	5	33	5.62		1.90	0	10	16	10	5	n.	Dr. S. W. Frost.
Bethlehem	Northampton	295	43	74.3	-0.4	95	31	52	9	36	3.88	-0.68	1.67	0	15	14	11	6	w.	Lehigh University.
Bustleton	Philadelphia	125	8	74.6		97	14	49	5	31	4.30		2.44	0	10	9	13	9	sw.	Experiment Station.
Carlisle	Cumberland	467	60	75.2	+0.4	98	13	48	5	38	5.74	+1.88	2.71	0	13	24	1	6	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	71.4	-1.3	96	13	43	5	36	6.21	+2.44	2.90	0	11	21	5	5	.....	H. H. Yetter.
Center Hall	Center	1,272	31			95	14				3.54	-0.35	1.24	0	11	17	6	8	.....	S. W. Smith.
Chambersburg	Franklin	580	27	72.2	-2.5	92	13	47	5	29	5.58	+2.30	1.25	0	14	11	9	11	s.	William B. Spear.
Clearfield	Clearfield	1,120	17	72.0	+0.5	98	1	40	5	54	3.18	-0.82	1.26	0	12	7	19	5	sw.	E. W. Hess.
Coatesville	Chester	380	39	74.0	-0.7	94	14	48	5	30	3.98	-1.04	1.84	0	10	10	15	6	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	71.7	-0.8	97	13	44	5	32	3.55	-1.12	0.82	0	12	16	6	9	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	68.1	-2.1	90	13	40	5	36	4.38	-0.06	1.39	0	11	18	8	5	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	73.6	-0.4	96	13	49	5	28	7.15	+2.61	3.26	0	11	9	14	8	w.	Ira J. Keith.
Freeland	Luzerne	1,970	12	69.6		93	14	44	5	30	5.15		1.90	0	15	9	14	8	sw.	Theo. Reichmann.
George School	Bucks	190	20	74.1	+0.5	95	15	47	5	31	6.94	+2.56	4.35	0	7	18	7	5	s.	Prof. N. W. Swayne
Gettysburg	Adams	553	53	74.2	+0.2	96	14	50	5	28	4.68	+1.06	1.16	0	14	8	15	8	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	23	69.4	-0.8	94	13	40	5	35	7.58	+2.34	3.07	0	11	16	6	9	s.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	3	65.8		91	13	39	6	35	5.27	-0.40	2.20	0	14	16	9	6	sw.	Gustav Holtz.
Hamburg	Berks	535	34	72.2	-1.7	95	13	46	4	34	4.57	-0.14	1.15	0	12	10	19	2	w.	State Sanatorium.
Hanover	York	600	23	73.5	-1.9	93	14	50	5	29	4.25	-0.22	1.80	0	13	20	5	6	sw.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	74.2	-0.6	94	13	55	5	27	3.63	-0.24	1.52	0	13	4	18	9	sw.	U. S. Weather Bureau.
Hawley	Wayne	900	8	69.8		95	13	39	5	42	4.02		1.35	0	12	9	18	4	w.	J. S. Pennell.
Holtwood	Lancaster	200	12	74.2		93	14	54	5	23	3.74	-0.76	1.33	0	8	10	16	5	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	72.0	-0.2	97	13	42	5	36	5.36	+1.57	1.63	0	17	15	7	9	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	73.4	+1.4	98	13	44	5	38	3.71	+0.60	1.39	0	8	10	13	8	.....	John S. Madore.
Lancaster	Lancaster	255	39	72.7	-0.7	96	13	43	5	35	5.02	+1.10	1.35	0	10	21	7	3	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	69.6	-0.6	94	13	42	5	44	7.14	+2.84	0.96	0	13	18	9	4	.....	C. P. Darling.
Lebanon	Lebanon	469	86	73.8	+0.2	100	13	48	5	32	4.01	-0.26	0.89	0	13	19	8	4	se.	S. B. Benzing.
Lewisburg	Union	450	52	74.6	+3.1	98	13	50	8	35	5.53	+1.56	1.12	0	12	13	11	7	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	74.4	+1.1	99	13	46	5	36	2.82	-1.18	0.83	0	13	17	9	5	sw.	Joseph Beaver.
Lykens	Dauphin	680	12	71.7	-0.1	97	14	42	5	36	11.82	+6.93	8.04	0	14	16	10	5	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	69.6	-2.7	98	13	41	5	38	3.65	-1.45	0.81	0	14	15	9	7	w.	R. K. Wintermute.
Mifflintown	Juniata	445	23	71.8	-0.9	93	13	44	5	31	7.32	+3.21	2.50	0	13	17	6	8	w.	Wellington Smith.
Montrose	Susquehanna	1,720	24	68.4	+0.2	90	14	41	5	29	4.01	-0.25	1.08	0	13	9	15	7	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	64.6	-1.6	86	13	38	5	30	5.12	-0.04	1.96	0	17	16	6	9	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	15	69.5	-0.2	93	13	42	6	37	2.42	-2.55	0.80	0	12	14	11	5	w.	A. H. Boatman.
Narberth	Montgomery	300	8	74.0		94	13	50	5	28	2.85			0	10				sw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	73.2	+0.1	97	13	45	5	36	5.38		2.25	0	9	19	5	7	s.	North Springfield Water Co
Palmerton	Carbon	398	10	72.6		97	13	45	5	33	4.04		1.73	0	12	13	15	3	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	75.8	-0.4	93	13	59	5	23	4.50	+0.17	1.94	0	9	7	13	11	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	2	76.3		94	13	56	5	24	4.66		2.32	0	9	12	13	6	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	76.0		94	13	58	1	24	5.26		1.70	0	10				.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	76.6		95	14	59	5	23	4.49		2.05	0	8	5	18	8	sw.	Atlantic Refining Co
Phoenixville	Chester	100	16	75.4	+0.9	97	13	48	5	32	7.84	+2.80	4.93	0	6	18	13	0	s.	North Springfield Water Co
Quakertown	Bucks	496	42	72.4	-0.1	96	13	43	5	36	4.28	-0.54	1.64	0	16	12	10	9	sw.	John E. Benner.
Reading	Berks	325	57	74.7	-0.8	96	13	55	5	24	3.82	-0.40	0.90	0	13	6	15	10	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	71.2	-0.5	94	13	47	6	34	4.48	+0.65	1.59	0	15	7	13	11	s.	U. S. Weather Bureau.
Sellingsgrove	Snyder	455	37	71.2	-2.3	94	13	44	5	42	5.59	+1.21	3.35	0	12	13	10	8	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	75.2		93	13	51	5	26	6.14	+1.55	4.33	0	8	11	13	7	nw.	W. S. Guiles.
State College	Center	1,217	42	71.3	+0.7	94	13	46	5	32	4.98	+1.20	1.16	0	11	14	13	4	sw.	C. A. Kern.
Stroudsburg	Monroe	500		70.1		94	13	41	5	37	6.79		2.43	0	13	12	16	3	nw.	State Normal School.
Towanda	Bradford	754	32	69.8	-0.8	94	14	42	6	35	2.78	-1.29	0.51	0	14	13	10	8	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	68.4	-0.5	94	13	37	5	41	2.69	-1.31	0.43	0	12	24	4	3	w.	George W. Hill.
West Chester	Chester	455	89	73.3	-1.0	95	13	50	5	30	6.78	+1.95	4.13	0	10	14	14	3	w.	Arthur M. Hay.
Williamsport	Lycoming	521	40	72.9	-0.2	98	14	46	5	37	1.81	-2.15	0.40	0	11	14	9	8	nw.	Miss Veronica E. April.
York	York	400	39	74.0	-0.4	99	13	44	5	40	4.23	-0.26	1.09	0	11	19	10	2	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	72.0	-1.9	94	13	44	4	33	6.78	+2.91	2.10	0	17	5	14	12	sw.	U. S. Engineer.
Bradford	McKean	1,427	12			93	13	35	5	40	3.90	-0.66	1.05	0	9	19	6	6	.....	City Engineer.
Brookville	Jefferson	1,173	36	67.0	-1.4	93	13	41	4	35	7.23		1.49	0	14	15	0	16	w.	John Fawcett.
Butler	Butler	1,152	2	70.0		95	1	41	4	35	7.23		1.49	0	14	15	0	16	w.	Foraker Ferrell.
Claysville	Washington	1,150	23	73.6	+0.9	98	1	40	5	39	4.71	+0.39	1.44	0	14	18	3	10	n.	J. L. Melvin.
Corry	Erie	1,430	15	67.6	+0.4	90	13	41	5	37	6.20	+2.87	1.36	0	14	17	9	5	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	30																	

Daily Precipitation for July, 1927

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.14		.01	.02			T.	.06		.03	.03	.03			.61	.01	.17	.18					1.27	.04				.19		.25	3.04	
Altoona	Juniata		.35				.11	.67	.01				.03			.32	.02	.04	.09				.78	.92				.01	.16	.37	.30	.67	4.85
Ansonia|||	W. Br. Susq.		.04					.32	.11				T.			.58	.14		.05				T.	1.09	.22	T.		T.	.02	.12	.08	.44	3.21
Arendtsville	Potomac	T.	.12				.40	.01		.21						.35	1.39	.10						.54					.60		1.90	5.62	
Baker's Summit	Juniata	.02				.09	1.09										.31	.16		.31			1.02	.62				.22	.72	.51	5.07		
Bethlehem	Lehigh		.29	.10		.01	.02			.07					.49		.14	.09		.02			1.67	.10			.10	.18		.02	.58	3.88	
Bloersville||	Lower Susq.			.20						.10		.62				.05	.75	.38			.05		6.02				.55		.20	.56	10.03		
Bustleton	Lower Del.		.06	.03		.01	T.			.11	.01					.37				.32	.02			2.44				T.	T.	.56	.93	4.30	
Carlisle	Lower Susq.		T.	.08			.13			.69						.02	.07	T.	.06				.90	1.81			.41	.43	.14	.52	.48	5.74	
Catawissa	N. Br. Susq.						.50			.12	.03	.20				.32	.18						2.05	.85			1.30			.14	.52	6.21	
Center Hall	Susquehanna					.01	.45									.12	.12					.58		.34	.15	.03		.32		.18	1.24	3.54	
Chambersburg	Potomac		.17			.02	.76	.02		.26						.02	.69	.15	.02				1.25	.65			.51			.37	.69	5.58	
Clearfield	W. Br. Susq.	T.		.02		.08	.45								.10	T.	.26	T.		T.		.06	1.26	.20	T.		.05		.20	.10	.40	3.18	
Coatesville	Lower Del.	.23								.04						.37	.11			.30													
Colebrook	Lower Susq.	.22		T.		.01	T.			.05					.78	.01	.27	.03	T.	.49			T.	.82	T.			T.		.12	.31	.44	3.55
Conshohocken	Schuylkill	.06		T.						.01										.30				1.00		T.		T.		.01	.64	2.76	
Cresson|||	Juniata					.40	.83									.23	.74			.30			1.10	.66	.20		.06		.20	.80	.44	5.42	
Doylestown	Lower Del.		.03	T.		T.	.14	.06		.03	T.				.36	T.		.63		.17		.03		3.50				T.		.10	.85	5.90	
Driftwood|||	W. Br. Susq.						.19	.30				.25						.33						.95				.18			*	2.20	
Emporium	do.	T.		.10		.10	.48					.92			T.	.10		.46				.07	1.32	.12	T.			T.	.16		.55	4.38	
Ephrata	Lower Susq.	.87	T.			T.				T.						.07	3.26	.30		.04		.62	.01	.56			.04			.79	.59	7.15	
Forest City	N. Br. Susq.					.16	.15			T.					.22	.16			.14				.36	1.51	.66	.12	T.		.36	.21	.29	4.34	
Freeland|||	Lehigh	.18		.01	T.		.03	.35		.02	.01	.02			.18	.02	1.14	.12					1.90				.81	.06			.30	5.15	
George School	Lower Del.					T.		T.		.04	T.				.02		1.46		.26	T.			4.35	.10					T.	.71		6.94	
Gettysburg	Potomac	.01	T.	.26		T.	.17	.01		.12						.22	.40	1.03	T.	.57			.63	.05			T.	T.	.05	T.	.82	.34	4.68
Girardville	Susquehanna			T.		.14	.18			.69	T.					T.	3.25	.35					.05	2.25			.56			.25	.31	7.43	
Gordon	Lower Susq.	.02				T.	.02									.01	2.60		.92				.05	3.07	.10		.08			.25	.46	7.58	
Gouldsboro||	Lehigh			.42		.12	.09			.20						.05			.24	.09			.05		2.20	.20	.56		.18	.19	.68	5.27	
Graterford	Schuylkill	.40				.02	.21			.01					.08		.66		.23			.08		2.14	.02		.01			.84	4.70		
Hamburg	Schuylkill					.02	.71								.63		.61		.23			.30		1.15	.04		.06	.15	.13	.21	.56	4.57	
Hamlin	Upper Del.					.10	.30								.30		.15				.60	1.55	.75				.40	.32	.30	.20	.40	5.37	
Hanover	Lower Susq.	.23		.02		.10	.10			.07							.43	.04	.77				.09	.55				.14	.01	.78	1.03	4.25	
Harrisburg**	do.	.01		.02		T.	.10			T.	.14				.02	.05	.24	T.		T.			.49	1.03			.39		.45	.35	.34	3.63	
Harrisburg East	do.	.05		T.		T.	.08			.08	.05				T.	.06	.25	T.		T.			.13	1.57	.28		.01	.61	.44	.28	.44	4.05	
Harrisburg North	do.	.11		.03		.01				.04	.17				.05	.47	.41	.03		.12			1.19	.19				.07		.16	.83	3.88	
Hawley|||	Upper Del.	.01				.11	.13			.03			.13				T.				.30	.96	1.85				.30	.17		.13	.40	4.02	
Holtwood||	Lower Susq.	.52					T.			T.	T.				T.	.20	1.33	T.		.02			.35					.18		.11	1.03	3.74	
Huntingdon	Juniata			.15		.04	.41								.07	.16	.28	.44	.16		.33	.05	.72	.58	.01		T.	.02		.31	.87	7.36	
Hyndman	Potomac					.02	.52	.02										.08					1.39	.88					.06	.74	3.71		
Lancaster	Lower Susq.	.64														.06	.22	1.25		.09			.50				.48		.43	.83	.52	5.02	
Lansford|||	Lehigh	.75	T.		T.		.07	.03								.05	*	1.50				.01		2.08				.11	.14		*	4.74	
Lawrenceville	N. Br. Susq.			.10		.10	.96			.70					.61	.83	.85	.89					.66	T.	.17			.24	.25		.78	7.14	
Lebanon	Lower Susq.			T.		T.	.12		.05						.04	.30	.78	.04		.35			.87	.14			.16		.09	.89	.18	4.01	
Lewisburg	W. Br. Susq.					.08	.15			.03						.45	.55						.52	1.12	1.04			.47		.10	.58	5.53	
Lloyd	do.					.04	.13			.21						.35	.24			.34	.51				.32		.44		.52			2.66	
Lock Haven	do.			.50		.05	.66			.06						.16		.06	.01				.59	.24			.02		.04	.01	.43	2.82	
Lykens	Susquehanna					.02	.16	.02		.10	.25	T.				.01	.31	.24		.05			.06	7.98	.45		T.	.29		.14	.52	11.82	
Mauch Chunk	Lehigh	.76		.02		.04				.05					.05	.06	.81	.02	.12	.07				.24			.53	.11		.77	3.65		
Mifflintown	Juniata			.20		.01	.56			.10						.09	.01	.09					.50	2.00				.60		.12	2.50	.54	7.32
Montrose	N. Br. Susq.	1.08				.05	.30								.06	.25		.25	.05			.05	.17	.60			.35		.25		.55	4.01	
Morris Run	N. Br. Susq.			.15		.03	.20				.03				.02	.51		.16				.12	.40	.18	.03		.52	.07		.47	2.89		
Mount Pocono	Upper Del.	.03	.10			.04		.22		.20	.26				.12	.46	.72	.04					1.96	.15		.02	.02	.19	.06	T.	.53	5.12	

Daily Precipitation for July, 1927—Continued from page 33

Stations	Drainage Basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Ohio Drainage.																																					
Beaver Dam|||	Ohio.....			.01			.05	.05	.17			.70				.01	.55	.04	.02			.04	2.10	.89	.06				.03	.40	.75	.91	6.78				
Beaver Falls|||	Beaver.....			.03			.03	.79				.33				T.	.08		T.			T.	1.95	.45	.12			.01	.08	.08	.06	1.45	5.41				
Bradford.....	Allegheny.....																	.15					.05	.30				.15		.30	.05	.60	3.90				
Brookville.....	do.....		T.				.30	1.00										.02				.70	1.14	.70	.17			.13	.05	.27	.98	.10	7.23				
Butler.....	Ohio.....						1.49	.62								.85	.01	.02					1.44	.64					.01	.02	.12	.94	4.71				
Claysville.....	do.....			.02			.02	.38	.01			.01				.56	.09	.45																8.11			
Cloeff.....	Allegheny.....						.20	.17							.05	.18		.13					1.46	.45						.10	.15	.22	8.11				
Clymer|||	Conemaugh.....		.14				.17	.41								.22	.14		.30				.55	.22			T.			.64	.43	2.20	5.79				
Confluence|||	Youghiogheny.....		.27					.05	.46							.05	.22	.16					1.52	.06						.32	.40	3.51					
Coraopolis|||	Ohio.....						.03	.01	.37							.14	.52	.01	.05		T.		1.87	1.02	.09				.01	.16	.05	.49	4.82				
Corry.....	Allegheny.....						.26	.21			.05			.01		.23	.10	.35	.28	T.			1.36	.41	.12			.82		1.09	.91	6.20					
Coudersport.....	do.....							.50							.01	.35	.41	.21					.64	.44			.19		.31			.40	3.46				
Creekside.....	Allegheny.....						*	.84								.62		1.01			.01	*	*	1.38			.02	.34		*	*	3.40	7.62				
Derry.....	Conemaugh.....						1.39								.20	.21	1.21	.16					T.	.25					.12	.07			1.12	4.73			
Donora.....	Monongahela.....						.01		.35						.84	.61			T.				.34	.11					T.	.01	.19	1.33	3.79				
Ebensburg.....	Conemaugh.....						.15	.89								.04	.18	T.					1.00	.75	.04				.22	.07	.45	.80	4.59				
Elk Lick.....	Youghiogheny.....	1.04						.30								.08	.12						.46	1.34	.65					.30			3.91				
Falls Creek.....	Allegheny.....						.04	1.12			T.					.30		.05				.21	1.03	.33									5.77				
Franklin|||	Allegheny.....		.10				.08	.17	.27						.40	.73	.05	.09					1.09	1.59	.26						.31	.63	7.30				
Freeport|||	Allegheny.....		.05				1.28	.20							.51	.10	.18					.91	1.80	.51	.25				.45	.43	.04	.59	7.92				
Greensburg.....	Youghiogheny.....						.05	.27	.01						.10	.20	.30	.10		T.			.56	.78	T.				T.	.03		.65	T.	5.72			
Greenville.....	Beaver.....		.29				.13	.41			.05		.01		.24		.16			T.			1.09	.04	.06				.03		.10	.65	5.46				
Grove City.....	Beaver.....		T.	.23			.06	.41			.35				.60	.10	.27			T.			2.02	.45	.03			.17		.04	.08	.70	.46	7.85			
Herr's Isl. Dam|||	Ohio.....						.08	T.	.36						.62	.71		.37				.31	2.80	1.30	.02												
Indiana.....	Conemaugh.....						.02	.33							.48	.72		.20			.78	1.95	1.09						.05	.11	.53	.63	6.90				
Ingram.....	Ohio.....		.01				.69	.15							.30	.41	.40						.38	.04	T.					.09	.22	1.35	4.03				
Irwin.....	Youghiogheny.....						.18	2.14			.03				.12	.06	.36	1.15				.36	.98	.84	.01				.02	T.	.03	.18	1.41	7.87			
Johnstown.....	Conemaugh.....	T.					1.38	1.63							.22	.41	.46	.50		T.		.08	1.24	.22					T.	T.	.47	.61	2.39	9.64			
Kregar|||	Youghiogheny.....	.03					.23	.08							.01	.08	.18	.03	1.09				.90	.91	.29						.05	.43	4.34				
Linesville|||	Beaver.....		.06																															3.50			
Lock No. 4|||	Monongahela.....						T.	.01	.19							1.12	.36					.14	.11	.41	.06							.11	.99	3.50			
Lycippus.....	Conemaugh.....		T.				.50								T.	.22	.07	.35	.70				.42	.55						T.	.55	2.25	5.61				
Mount Lebanon.....	Ohio.....		.04				.02	.21							1.18	.21	.34	.47			.06		1.47	1.31						T.	.40	.67	6.38				
New Castle|||	Beaver.....		.11				.73				.19					.17	T.						1.00		.16					.19	.08	.87	3.54				
Newell.....	Monongahela.....						.35				.02					.55	.56	.09	.19				.42	.32	.14							.80	3.43				
Parkers Landing|||	Allegheny.....						.03	.60	.15		.02		.35			.25		.05				T.	1.30	1.08	.15				.60		.27	.55	5.40				
Pennline|||	Beaver.....		.03				.26	.08	T.						.03	.06	.07	.08	1.58							1.71	1.01	.21			.10	.36	5.58				
Pittsburgh***	Ohio.....		T.				.02	.17							.41	.60	.02	.17			.66		2.86	.04				.04		.18	.56	.61	6.34				
Ridgway.....	Allegheny.....						.03								1.30	.03		1.10					1.61	.97				.10	.03	.13		.51	5.82				
Saegertown|||	Allegheny.....		.01				.03	.98	.06						.11	.05		.31					.54	.26	.04				.19		.49	.80	4.87				
Saltsburg|||	Conemaugh.....		.01				.42	.21		.30		.19		T.		.20							1.17	2.16							.22	.62	5.49				
Sharon|||	Beaver.....						1.40									.05		.30				.08	1.52	.07							.23	.80	4.65				
Somerset.....	Youghiogheny.....	.20					.08	.75	.03							1.00	.40	.05	.18				1.80	1.07	.01				.03	.48	.43	.72	7.07				
Springdale|||	Allegheny.....		.04				.48	T.							.12	.16						T.	.71	1.06					T.	.02	.68	.64	3.87				
Uniontown.....	Monongahela.....						.06	.40							.21	.15	.83	.26					.38	.36						.10	.26	1.55	4.56				
Unity Reservoir|||	Youghiogheny.....						.92	.01							.28	.24	.02	.11			.03	2.52	.06						.54	.38	1.98	.69	7.83				
Vandergrift.....	Conemaugh.....		.05				.14	.50							.16	.22	.62	.30	.58				.80	.13	.10				.50			.42	.54	5.05			
Warren.....	Allegheny.....		.02																															4.49			
Washington|||	Ohio.....		.04				.01	.08							.51	.81	.23	T.			T.		1.31	.04				T.	.19	.25	1.04	4.49					
Westford|||	Beaver.....		.07				.17	.10	.12						.25				.15				1.50	.91	.37					T.	.10	.33	4.07				
West Newton|||	Youghiogheny.....						.01	.25	.24		.02					.55	.60						.18	.09	.16						.26	1.03	3.39				
Zelienople|||	Ohio.....		.05				.05	1.31	.32		.57					T.	.18		.05				.02	1.52	.35	.05			.58	.75	.08	1.19	7.07				
Lake Drainage.																																					
Erie***	Lake Erie.....		.12				.23	.21			T.		T.	.14	.18	.21		.01					.06	2.11	.50	.03			.52	T.	.06	.29	.16	4.83			
West Bingham.....	Genesee.....						.09	.48							.38	.12	.50						.34	.49	.75	.06			.08	T.	.66		.54	4.49			

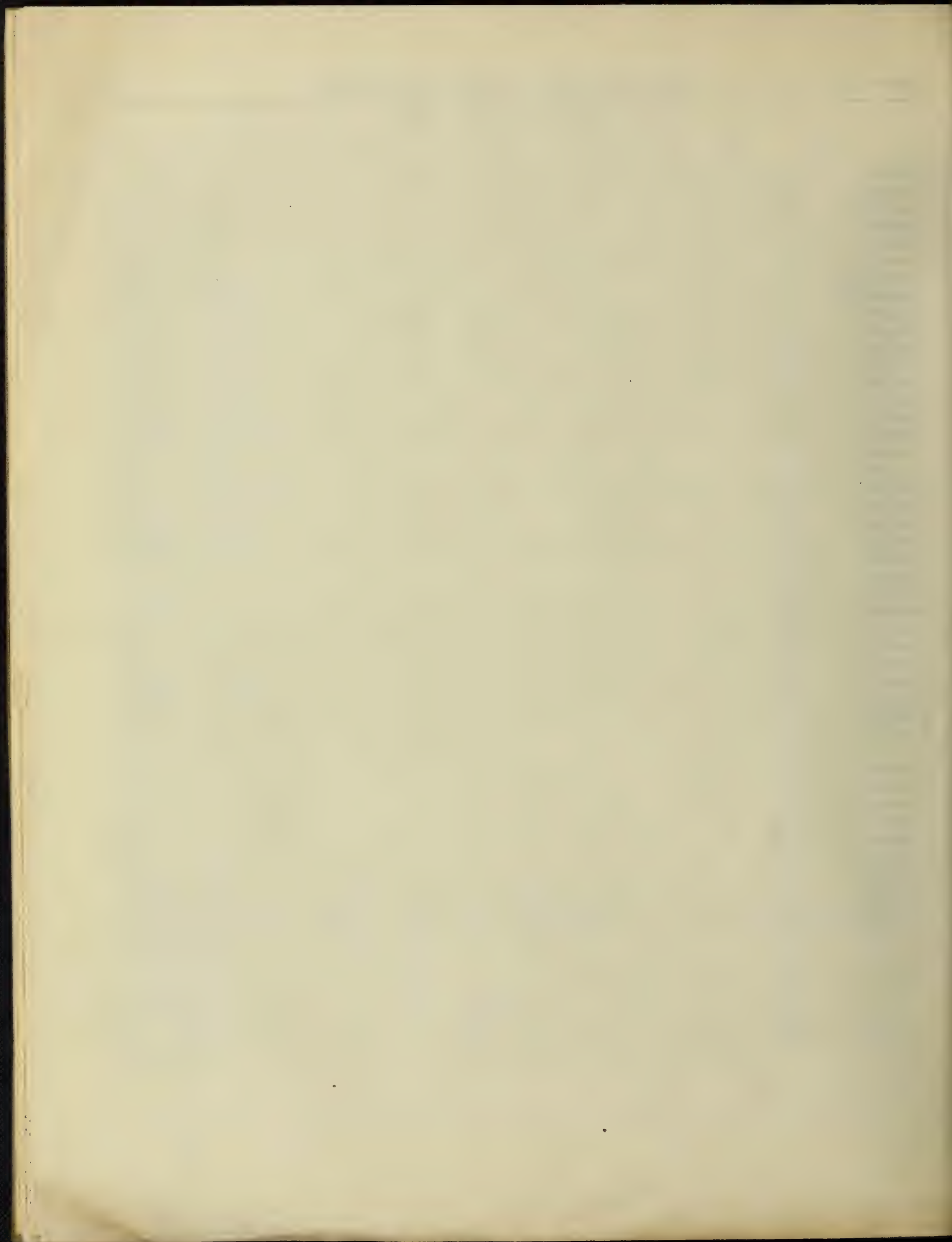
Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloesville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg.

‡ Mdt. to mdt.

Daily Temperatures for July, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	81	78	84	74	76	72	88	82	84	74	81	92	97	96	93	93	88	85	73	85	86	76	84	79	82	88	89	91	88	87	81	84.1	
	Minimum	56	58	61	57	51	52	55	60	55	60	64	65	69	74	70	71	71	70	66	60	63	65	64	60	61	60	61	68	67	64	67	62.6	
Altoona.....	Maximum	84	82	78	72	71	72	79	75	77	78	83	88	92	88	89	81	87	81	83	82	83	74	72	76	81	83	82	87	79	71	76	80.2	
	Minimum	62	56	59	45	42	49	59	48	48	62	57	61	62	69	64	66	67	61	53	58	55	63	60	58	63	58	60	62	67	62	64	58.4	
Beaver Dam.....	Maximum	93	92	85	71	74	83	83	77	81	86	89	92	94	94	87	84	84	82	82	84	90	90	79	81	84	86	87	91	90	80	82	85.1	
	Minimum	65	65	63	44	44	51	61	50	48	58	59	60	63	68	63	66	68	57	54	56	59	65	59	54	53	57	59	62	65	62	64	58.8	
Brookville.....	Maximum	92	89	78	71	72	78	76	76	80	84	89	90	93	89	90	88	82	82	85	85	75	73	75	82	84	83	89	79	74	80	81.8 ^b		
	Minimum	57	56	46	39	35	49	46	41	40	55	54	55	55	60	64	64	61	49	46	49	52	58	58	54	49	49	54	55	60	59	62	52.1 ^b	
Butler.....	Maximum	95	91	76	70	74	81	78	79	81	83	91	91	93	88	87	86	84	82	83	86	85	78	68	78	83	85	87	90	80	71	80	82.7	
	Minimum	63	63	46	41	49	56	48	44	59	59	60	62	71	66	65	63	55	49	54	55	61	61	58	49	53	57	67	63	64	62	57.4		
Carlisle.....	Maximum	89	90	87	84	80	88	85	87	88	83	88	94	98	98	97	94	91	92	92	91	87	85	84	86	89	90	88	92	88	80	81	85.6	
	Minimum	62	58	65	55	48	52	56	58	50	63	68	63	65	68	70	69	68	70	64	61	59	62	64	60	56	58	62	62	64	64	68	61.7	
Catawissa.....	Maximum	84	84	84	76	79	71	79	82	83	80	84	92	96	98	95	89	88	85	80	87	86	73	82	78	77	87	87	89	84	80	78	83.7	
	Minimum	60	57	59	52	43	47	57	49	47	57	63	64	66	72	67	68	66	65	58	60	65	60	60	55	56	58	58	59	58	66	59.0		
Chambersburg.....	Maximum	85	83	83	80	75	73	81	79	80	77	82	90	92	92	89	87	85	83	82	82	79	78	79	83	85	84	88	82	78	78	82.7		
	Minimum	61	57	64	55	47	52	60	55	53	63	66	61	65	68	67	67	68	68	65	62	60	63	67	61	54	58	60	65	67	65	67	61.6	
Claysville.....	Maximum	98	94	83	77	79	86	86	82	86	91	92	96	96	94	89	89	89	88	86	88	94	91	82	82	87	90	91	90	82	85	88.3		
	Minimum	63	64	64	46	40	49	66	47	47	56	58	60	61	68	63	68	69	58	53	53	59	65	61	52	54	56	58	67	68	67	65	58.9	
Clearfield.....	Maximum	98	89	83	78	78	77	80	81	85	88	89	94	96	90	98	91	92	90	82	89	92	71	76	79	90	88	92	82	85	90	86.4		
	Minimum	44	60	51	44	40	50	56	46	44	59	58	66	61	71	68	62	69	57	60	64	62	60	58	59	53	54	61	60	71	63	64	57.6	
Coatesville.....	Maximum	80	79	83	76	75	73	88	82	83	74	81	91	93	94	93	92	87	86	80	85	85	76	84	81	85	89	90	92	88	88	84	84.4	
	Minimum	55	63	61	55	48	50	62	61	54	65	68	68	69	75	70	70	71	73	68	70	61	65	67	57	57	59	52	66	72	66	68	63.7	
Corry.....	Maximum	88	87	80	64	69	76	76	71	80	82	85	86	90	88	83	84	78	76	78	79	84	78	68	70	77	80	78	86	83	78	77	79.3	
	Minimum	59	59	57	42	41	54	61	47	48	55	58	61	62	67	66	65	65	51	45	51	53	63	60	57	53	51	58	49	60	52	61	55.8	
Emporium.....	Maximum	89	85	70	70	71	68	70	75	77	78	85	86	90	88	89	85	86	78	81	82	83	68	77	71	81	82	81	86	76	77	79	79.5	
	Minimum	64	57	60	43	40	45	55	45	42	52	59	60	62	65	70	66	70	56	50	54	56	60	63	60	58	55	59	50	62	60	66	56.7	
Erie.....	Maximum	88	86	71	67	70	81	70	75	79	80	82	86	93	81	81	82	81	73	77	72	82	75	71	71	78	83	82	87	77	77	74	78.5	
	Minimum	71	69	55	54	52	57	63	57	56	65	67	70	69	68	69	68	68	61	57	60	62	65	61	61	62	62	62	67	62	61	62	62.7	
Franklin.....	Maximum	95	91	70	70	74	82	73	77	80	85	89	93	93	88	86	87	83	82	82	85	86	76	70	77	84	84	90	78	80	74	82.5		
	Minimum	61	63	59	42	42	49	53	46	49	55	58	60	62	68	66	63	68	64	50	54	56	63	60	59	50	54	57	59	63	57	61	56.8	
Freeland.....	Maximum	81	81	78	71	70	71	80	78	81	80	81	87	92	93	90	88	83	84	82	77	81	85	72	79	74	80	82	84	86	83	81	74	80.8
	Minimum	53	58	58	46	44	50	56	48	52	56	62	63	67	67	68	66	64	64	59	56	59	58	58	56	54	62	62	60	62	58	64	58.4	
Gettysburg.....	Maximum	83	84	83	81	76	74	84	82	83	76	87	92	95	96	95	89	87	83	84	85	80	82	82	87	88	89	92	82	88	81	84.9		
	Minimum	69	69	65	56	50	53	63	57	57	64	67	65	67	73	69	68	67	71	66	59	62	66	68	60	60	61	64	67	66	67	63.4		
Greensburg.....	Maximum	91	92	85	75	76	82	78	82	84	90	91	94	90	88	88	80	88	80	83	87	90	80	84	79	82	85	86	89	84	87	80	84.8	
	Minimum	65	64	66	49	47	51	61	49	52	63	62	65	63	68	69	69	69	61	55	56	59	64	60	56	55	58	62	66	69	65	65	60.7	
Grove City.....	Maximum	92	87	75	64	74	77	77	70	75	78	83	86	88	84	80	80	75	75	78	78	77	64	72	77	78	74	84	83	70	73	78	78.1	
	Minimum	63	65	56	43	42	53	62	48	47	61	58	62	64	71	62	62	68	52	50	56	56	62	60	56	52	54	58	58	68	60	64	57.8	
Hamburg.....	Maximum	82	84	80	76	83	74	87	82	82	77	81	91	95	94	95	95	88	85	84	86	84	83	85	84	87	87	86	90	89	83	85.1		
	Minimum	54	62	48	46	49	46	57	58	50	62	66	63	64	66	67	65	66	65	57	60	61	64	65	55	59	60	59	61	62	61	59.3		
Harrisburg.....	Maximum	82	82	85	75	76	74	85	81	83	76	83	91	94	94	93	90	88	85	73	85	84	74	80	81	87	87	88	91	83	78	81	83.5	
	Minimum	61	63	66	57	55	55	65	61	56	63	69	68	71	75	72	71	70	71	66	63	63	67	64	63	63	62	65	66	67	68	68	65.0	
Hawley.....	Maximum	78	81	81	81	74	72	76	78	83	80	84	90	95	95	95	93	86	87	86	85	87	74	73	76	83	82	84	86	86	87	83.2		
	Minimum	55	56	54	50	39	39	54	52	41	58	60	58	63	67	64	68	66	66	54	51	58	61	61	54	56	50	56	58	62	54	65	56.3	
Huntingdon.....	Maximum	84	86	84	76	77	75	84	81	81	81	87	93	97	94	93	89	90	86	85	86	85	76	77	80	86	88	92	84	72	80	84.3		
	Minimum	67	59	64	51	42	49	62	48	49	65	61	62	62	65	65	67	67	63	56	61	58	66	64	64	50	56	58	62	63	61	66	59.8	
Indiana.....	Maximum	94	88	82	76	75	82	82	80	81	87	90	93	96	94	94	89	90	85	84	85	89	75	73	81	85	87	88	91	83	76	78	84.9	
	Minimum	65	63	64	51	48	50	60	50	50	64	62	64	63	67	67	70	69	63	55	57	59	65	61	59	53	57	59	65	70	67	66	60.6	
Lancaster.....	Maximum	83	85	86	83	72	68	82	83	83	80	84	94	96	94	91	89	88	90	89	89	84	87	83	88	85	92	94	91	75	85	86.3		
	Minimum	56	57	57	51	43	47	56	53	50	62	6																						



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII. AUGUST, 1927. No. 8

GENERAL SUMMARY.

This was the coolest August in the history of the State Weather Service, the mean temperature being 1.6° below that of August, 1912, which was the second coolest on record. The low mean was due to a moderate, but steady, deficiency throughout the month, and extremes for individual dates were not broken. However, the maximum of 92° for the State has been exceeded each August in the 40-year record. The cool nights were decidedly unfavorable for late corn, which in most cases was stunted beyond recovery. Early corn made a fair growth and development. The rainfall was below the normal at most places in the Ohio and Susquehanna basins, and was well above the normal in the Delaware basin. The excessive rains were favorable for pastures, potatoes, and truck crops, but damaged some grain and hay in the fields. In the Ohio and Susquehanna basins there was generally enough rain to preserve a healthy condition of the crops, while the weather was very favorable for field work, and especially for haying. The season, up to the end of August, was unusually good for hay. The yields were large, and the losses in curing were generally less than usual. Plowing was in progress during the latter half of the month, and a large portion of the wheat ground was prepared for seeding. The weather in August was not wholly favorable for orchard fruits. Apples developed slowly and fell from the trees more than usual. The peach crop was very light, and the fruit that was ripening at the close of the month began to rot in some instances before it was ripened enough for use. Only one severe storm was reported during the month, it being in the Perkiomen valley where the hail and high winds did considerable damage to crops, and destroyed a good many trees.

TEMPERATURE.

The mean temperature for the State, as determined from the reports of 82 stations, was 65.5°: a deficiency of 4.5° as compared with the normal and the lowest for any August since State-wide records have been kept. The highest monthly mean was 70.4°, at Philadelphia-Germantown and the lowest 59.2°, at Gouldsboro. The highest temperature recorded during the month was 92°, at Clearfield on the 1st and also at Claysville on the 7th. The lowest was 34 degrees, at three stations: Brookville on the 24th; and at Somerset and Gouldsboro on the 25th. The greatest daily range of temperature was 47°, at Brookville on the 7th.

PRECIPITATION.

The average precipitation for the State, as deduced from the observations of 135 stations, was 4.12 inches, which is 0.11 inch less than the August normal. The greatest monthly amount was 11.49 inches, at Snow Hill, while the least was 1.13 inches, at Selinsgrove. The greatest amount for any 24 consecutive hours was 4.04 inches at Snow Hill on the 13th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent				Velocity, in miles per hour			
				8 a m.	12 noon.	8 p. m.		Average	*Highest	Direction	Date
Erie.....	314.9	428.7	73	68	56	64	6,479	8.7	29	s.	7
Harrisburg.....	191.0	425.1	45	81	62	68	3,641	4.9	23	nw.	24
Philadelphia.....	234.3	425.1	55	84	70	78	5,676	7.6	33	ne.	26
Pittsburgh.....	238.6	426.9	56	82	57	62	5,431	7.3	32	nw.	19
Reading.....	231.2	425.1	54	79	60	69	3,559	4.8	20	nw.	1
Scranton.....	222.0	426.9	52	85	58	72	3,714	5.0	20	w.	5

* For any five-minute period.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	69.8	100	33	7.05	11.27	3.18	.....	.....	.....	.....
1889.....	67.4	100	37	3.24	7.07	0.83	.....	.....	.....	.....
1890.....	68.8	98	34	5.76	9.65	2.58	9	14	8	12
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11	12
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10	9
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7	8
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5	9
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6	8
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6	9
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9	12
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5	9
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9	11
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5	8
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10	14
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6	9
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7	12
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9	12
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9	10
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6	7
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6	7
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7	6
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12	13
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10	14
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5	8
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7	11
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10	15
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4	8
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6	10
1918.....	73.6	106	32	4.12	8.02	1.05	16	10	5	11
1919.....	68.2	94	35	5.43	12.03	2.35	18	10	8	12
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10	15
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6	9
1922.....	69.1	100	31	3.14	8.16	1.15	15	9	7	10
1923.....	69.2	96	30	3.10	7.30	0.59	15	11	5	9
1924.....	70.1	102	31	3.78	7.54	1.48	16	10	5	9
1925.....	69.7	97	26	2.28	5.14	0.65	18	9	4	7
1926.....	71.9	103	32	5.69	10.04	2.95	11	8	12	15
1927.....	65.5	92	34	4.12	11.49	1.13	12	10	9	12

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.0	6.3	30	2.1	14	28
Phillipsburg.....	Delaware.....	2.9	6.9	29	1.0	1	22
Mauch Chunk.....	Lehigh.....	-2.5	-1.5	31	-3.3	10	12
Wilkes-Barre.....	Susquehanna.....	2.5	3.6	4	1.9	26	20
Williamsport.....	Susquehanna.....	0.9	1.8	3	0.6	29	20
Harrisburg.....	Susquehanna.....	3.7	4.3	1	3.4	28	17
Freeport.....	Allegheny.....	5.3	10.8	31	2.8	13	22
West Newton.....	Youghiogheny.....	1.3	2.6	23	0.7	30	20
Lock No. 4.....	Monongahela.....	14.9	22.0	2	12.7	31	31
Pittsburgh.....	Ohio.....	11.2	14.4	3	9.8	31	25
Beaver Dam.....	Ohio.....	8.3	12.5	3	7.4	31	30

Climatological Data for August, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	66.8	.....	84	7†	42	25	32	7.49	+3.14	2.76	0	13	15	13	3	nw.	John A. Frick.
Altoona	Blair	1,615	40	62.8	-6.8	82	23	42	25	31	4.21	+0.82	1.90	0	12	17	6	8	w.	Lewis E. Biller.
Arendtsville	Adams	700	.....	67.2	.....	89	24	45	25	35	4.47	.....	1.00	0	14	12	7	12	n.	Dr. S. W. Frost.
Bethlehem	Northampton	295	43	67.6	-6.1	84	3	49	25	33	6.01	+1.69	2.17	0	10	12	12	7	sw.	Lehigh University.
Bustleton	Philadelphia	125	8	68.8	.....	87	8	46	25	33	7.87	.....	1.85	0	14	9	10	12	s.	Experiment Station.
Carlisle	Cumberland	467	60	69.2	-3.5	89	23	45	25	35	2.67	-2.29	0.78	0	11	16	3	12	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	65.0	-5.3	87	13	40	25	34	2.70	-1.42	0.56	0	10	19	7	5	.....	H. H. Yetter.
Center Hall	Center	1,272	31	.....	.....	90	23	.....	.....	.....	5.98	+2.02	3.52	0	9	14	5	12	.....	S. W. Smith.
Chambersburg	Franklin	580	27	66.8	-5.4	85	23	45	25	30	3.51	-0.73	1.42	0	11	8	11	12	s.	William B. Spear.
Clearfield	Clearfield	1,120	17	67.2	-2.7	92	1	40	3†	44	3.28	-1.86	1.32	0	11	17	8	6	w.	E. W. Hess.
Coatesville	Chester	380	39	66.8	-2.9	84	7†	40	25	34	4.48	+0.05	1.56	0	15	9	12	10	s.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	65.8	-4.8	85	23	43	25	31	3.00	-1.84	1.05	0	13	18	2	11	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	62.2	-4.7	82	13†	40	3	32	3.81	-0.26	0.92	0	11	11	13	7	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	67.2	-4.6	84	7†	46	25	29	5.26	+0.36	1.74	0	11	9	12	10	s.	Ira J. Keath.
Freeland	Luzerne	1,970	12	63.0	.....	82	13	43	25	27	5.74	.....	1.06	0	16	9	12	10	nw.	Theo. Reichmann.
George School	Bucks	190	20	68.2	-3.2	86	7	46	25	31	7.31	+2.71	2.53	0	13	11	11	9	s.	Prof. N. W. Swayne
Gettysburg	Adams	553	53	69.0	-2.7	88	23	47	25	31	2.97	-1.10	0.92	0	13	11	9	11	sw.	Dr. Henry Stewart
Gordon	Schuylkill	840	23	63.4	-4.8	84	23	38	3†	36	3.60	-1.17	0.78	0	11	12	9	10	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	3	59.2	.....	82	8	34	25	38	4.74	-0.44	1.94	0	11	15	9	7	w.	Gustav Holtz.
Hamburg	Berks	535	34	66.4	-5.3	83	23	43	25	34	.....	.....	.....	0	.....	.....	.....	.....	w.	State Sanatorium.
Hanover	York	600	23	67.2	-6.4	83	6	47	25	27	4.37	-0.41	1.73	0	11	18	4	9	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	67.6	-5.0	85	23	52	25	25	2.55	-1.70	1.02	0	10	5	12	14	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	8	63.8	.....	86	7	39	3†	39	6.20	.....	1.55	0	11	15	10	6	w.	J. S. Pennell.
Holtwood	Lancaster	200	12	68.6	.....	86	8	52	25	24	4.36	+0.86	1.10	0	13	10	10	11	w.	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	65.4	-5.3	84	11	42	25	35	3.44	-0.65	1.51	0	15	8	10	13	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	67.4	-3.5	87	23	42	25	39	3.08	-1.20	0.85	0	16	3	13	15	.....	John S. Madore.
Lancaster	Lancaster	255	39	67.6	-5.1	88	9	43	25	41	5.70	+1.67	1.12	0	12	13	10	8	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	64.4	-3.7	86	13†	40	25	42	2.46	-1.34	0.74	0	9	15	8	8	.....	C. P. Darling.
Lebanon	Lebanon	469	86	66.8	-5.2	86	23	45	25	30	3.21	-1.40	0.90	0	12	14	7	10	se.	S. B. Benzing.
Lewisburg	Union	450	52	67.6	-1.3	91	2	45	26	35	2.62	-2.05	0.37	0	15	10	10	11	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	67.2	-4.1	86	23	45	25	34	2.92	-1.25	0.57	0	14	11	10	10	w.	Joseph Beaver.
Lykens	Dauphin	680	12	65.6	-4.6	86	13†	40	25	38	3.28	-0.56	1.03	0	13	15	10	6	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	65.2	-5.1	85	7	41	3†	38	7.63	+2.66	1.69	0	13	17	6	8	sw.	R. K. Wintermute.
Mifflintown	Juniata	445	23	63.8	-6.8	80	5	44	25	34	5.03	+0.51	2.70	0	12	11	6	14	w.	Wellington Smith.
Monroeville	Susquehanna	1,720	24	62.9	-4.0	84	13	39	26	40	4.63	+0.42	1.12	0	11	13	9	9	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	59.4	-4.8	76	8†	36	3	32	5.15	+0.81	1.36	0	13	12	9	10	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	15	63.3	-4.4	89	2	37	25	36	3.31	-1.93	0.74	0	10	19	7	5	w.	A. H. Boatman.
Narberth	Montgomery	300	8	67.9	.....	85	7†	45	25	29	6.58	.....	1.59	0	16	9	7	15	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	66.4	-4.6	86	8	46	25	33	6.25	.....	1.88	0	13	12	13	6	w.	North Springfield Water Co
Palmerton	Carbon	398	10	65.2	.....	83	7†	42	25	35	4.30	.....	0.84	0	14	12	10	9	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	70.2	-4.6	85	8	54	27	21	7.27	+2.66	1.90	0	13	3	10	18	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	2	70.4	.....	86	9	55	27	23	7.10	.....	1.92	0	12	9	13	9	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	69.8	.....	86	8	54	27	26	7.76	.....	1.80	0	13	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	70.2	.....	87	8	54	27	22	7.01	.....	1.42	0	13	4	16	11	sw.	Atlantic Refining Co
Phoenixville	Chester	100	16	.....	.....	88	4†	46	30	34†	6.73	+2.21	1.34	0	12	15	11	5	s.	North Springfield Water Co
Quakertown	Bucks	496	42	66.5	-0.7	85	6†	41	25	34	6.88	+2.59	1.47	0	14	9	12	10	nw.	John E. Benner.
Reading	Berks	325	57	68.4	-4.0	84	7	54	27	24	3.99	-0.49	1.39	0	10	8	15	8	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	64.4	-5.4	83	23	44	25	29	4.77	+0.52	1.63	0	11	7	11	13	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	65.2	-6.3	85	13†	44	3†	35	1.13	-3.27	0.48	0	10	14	8	9	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	69.2	.....	84	1	50	25	27	6.13	+1.00	1.55	0	11	6	14	11	nw.	W. S. Guiles.
State College	Center	1,217	42	64.7	-4.0	83	13†	44	10	35	2.79	-0.99	1.20	0	8	8	13	10	sw.	C. A. Korn.
Stroudsburg	Monroe	500	.....	64.0	.....	84	7	40	3†	37	7.48	.....	1.53	0	10	13	12	6	nw.	State Normal School.
Towanda	Bradford	754	32	63.4	-5.1	85	23	40	25	33	3.90	+0.20	1.17	0	13	14	8	9	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	62.2	-4.2	91	13	37	3†	42	2.16	-1.55	1.09	0	9	20	6	5	w.	George W. Hill.
West Chester	Chester	455	89	.....	.....	83	9†	47	25	28	.....	.....	.....	0	.....	.....	.....	.....	.....	Arthur M. Hay.
Williamsport	Lycoming	521	40	63.8	-6.9	85	13	44	3†	30	3.10	-1.51	0.78	0	14	12	7	12	nw.	Miss Veronica E. April.
York	York	400	39	68.1	-4.5	90	23	44	25	36	4.38	+0.09	2.28	0	11	12	11	8	ne.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	66.0	-6.5	87	7†	43	25	32	3.36	-0.42	1.14	0	12	9	14	8	ne.	U. S. Engineer.
Bradford	McKean	1,460	12	.....	.....	89	12	34	24	47	3.20	-0.93	1.05	0	6	18	8	5	.....	City Engineer.
Brookville	Jefferson	1,173	36	60.7	-5.8	89	12	40	24	36	2.80	.....	0.62	0	13	16	4	11	nw.	John Fawcett.
Butler	Butler	1,152	2	63.2	.....	89	12	40	24	36	2.80	.....	0.62	0	13	16	4	11	nw.	Foraker Ferrell.
Claysville	Washington	1,150	23	67.0	-4.5	92	7	38	25	42	1.82	-2.51	0.63	0	9	18	3	10	s.	J. L. Melvin.
Corry	Erie	1,430	15	62.1	-3.3	85	13	38	25	37	2.28	-1.71	0.41							

Daily Precipitation for August, 1927

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.77	2.76					.17	.59					.45	.38	T.		.19	.35	T.				.01	T.			1.20	.04	.54	.04		7.49	
Altoona	Juniata	.11	.01					.09	.50	.05				.06	.83	.01			.50		1.90	.12						1.20	.04	.54	.03		4.21	
Ansonia	W. Br. Susq.	.07	.01				.05		.03	.22				.46	.62	.46			.44	.02	T.	.32						.03		.29	.03		3.05	
Arendtsville	Potomac	.27			.30	.30				1.00				.94	.51				.28	.50		.03	.01	.01				.05	T.	.14		.13	3.77	
Baker's Summit	Juniata	.08	.04					.23	.26					.70					.47		.95	.74								.22	.08		3.77	
Bethlehem	Lehigh	2.17						.09	.17					.77	.49				.56					.04				1.35	.32	.05			6.01	
Bloersville	Lower Susq.	.22				.70		.60					2.50	.60					.42										.02	.26			5.32	
Bustleton	Lower Del.	.40	.01			.07			.32	1.30				1.85	.63				1.15				.01	.09				*	1.68	.23	.13		7.87	
Carlisle	Lower Susq.	.28	.22			.26		T.	.05	.38		T.	.02	T.	.78				.32	T.									.06	.08	T.	T.	2.67	
Catawissa	N. Br. Susq.	.14						.07						.56					.41		.10						.07	.22	.44	.13	.52		2.70	
Center Hall	Susquehanna	.38						.18	.10					.82	3.52				.22						.12				.44	.20			5.98	
Chambersburg	Potomac	.29	.26	T.	.01			.13	.09					1.42	.79				.23									T.	T.	.05	.03	.21	3.51	
Clearfield	W. Br. Susq.	.05				.02		.40	.61					1.32					.35	.25	.10								.01	.01	.16		3.28	
Coatesville	Lower Del.	.79	.14			.05		.07	.18	.06			.11		.34				1.56				.16					.18	.49	.15	.04		.16	4.48
Colebrook	Lower Susq.	.42				.01		.02	1.03			T.		.07	.23				T.	.58		T.		.06				T.	.25	.13	.18	.01	.01	3.00
Conshohocken	Schuylkill	.20	T.			.04		.69	.32					.18	.21	.46			1.02									T.	1.01	.21				4.34
Cresson	Juniata	.08						.15	.25	.08				.74				.03	.40	.25	.85	.02											2.77	
Doylestown	Lower Del.	1.47	.32			.15		.25	.61	1.92				1.22	.21	.06			.53				.11					.04	1.60	.33	.04		T.	8.61
Driftwood	W. Br. Susq.	.35	.15				T.	*	.98					.74					.46	.03		.24			.02					.26	.06	T.	3.29	
Emporium	do	.04				T.		.16	.92					.51					.50	.07	T.	.73			.20			.07	T.	.30	.31		3.81	
Ephrata	Lower Susq.	.61	.55			T.		.62	1.12					.01	.06	T.			.72				.90					.42	.19	T.		.06	5.26	
Forest City	N. Br. Susq.	.53	.36					.27	.03					.42	.33				.52				.06					.71	.04	1.12	.06	T.	4.45	
Freeland	Lehigh	.22	.64	T.			.06	.54	.12					.12	1.06				.25	.20		.01		.02				.52	.17	.85	.71	.25	5.74	
George School	Lower Del.	.40	.01			.32		.60	.89					1.90	.63				.73	T.			T.	.06				.08	1.54	.12	.03		7.31	
Gettysburg	Potomac	.22	.19		.05	T.		.23	.03					.92	.36				.68			.02		.01				.06	.08				.12	2.37
Girardville	Susquehanna	.23	T.					.24	.05					1.46	.88				.62		T.		.07			.20		.37	.40	.36	.25	.17	5.30	
Gordon	Lower Susq.	T.	.56				.05	.07						.78					.43				.13					.32	.43	.18	.07	.58	3.60	
Gouldsboro	Lehigh	.21			.12		.20		.36					1.94					.42			.02						.84	.18	.42		.08	4.74	
Graterford	Schuylkill	2.48	.11			.06		T.	.18	2.24				1.23					.58	.42				.54				1.30	.33	.08		T.	9.13	
Hamberg	Schuylkill	.46						.14	.54	.70				.93					.26					.18									\$3.21	
Hamlin	Upper Del.	.90												1.00				.40	.40									.80	.40	.70	.15	.07	4.82	
Hanover	Lower Susq.	.96	.25		.02	.02		.23	.19					.79					1.73									.07	.09			.02	4.37	
Harrisburg	do	.25				.01		T.	1.02					.18					.35		T.		T.					.06	.04	.07		.29	2.55	
Harrisburg East	do	.34	.02			.01		.01	1.12					.50					.41				T.					.15	.09		.01	.24	2.90	
Harrisburg North	do	.37	.02			T.			1.11					.61	T.				.38									.09	.09		.02	.29	3.02	
Hawley	Upper Del.	.35	1.55						.12			.01			.27				.14	.09								.13	.09		1.20	.17	.94	6.20
Holtwood	Lower Susq.	.02	.72			.50	.80		.60					.06	.04				1.10			.83	.05	.02	.20			.17		.11	.02		4.36	
Huntingdon	Juniata	.07	.01			.15		.25	.02					.79		.02			.41	.02		.26	.07	.02	.09			T.	.02		.05	.02	3.44	
Hyndman	Potomac	.12	.20		.06	.05		.08	.38	.08		T.		T.	.85				.29			.26	.07	.02	.09				.01	.08	.44		3.08	
Lancaster	Lower Susq.	.75	.12			.02		1.02						.15					1.04									.34		1.12	.09	.15		5.70
Lansford	Lehigh	.44	1.14					*	1.06	.76					1.75				.17				.80						.49	*	.83	.06	.18	6.90
Lawrenceville	N. Br. Susq.	.23			.05		.17	.18						.39	.20				.20		.30		.02		T.			T.	T.	.74	T.	T.	2.46	
Lebanon	Lower Susq.	.90				T.		.75					.10	.30				.33	.12				.08					.17	.17	.02	.01		3.21	
Lewisburg	W. Br. Susq.					.08	.15	.22						.17	.27				.37		.03	.28		.02	.01			.13	.30	.37	.02	.20	2.62	
Lloyd	do				.04			.06	.18					.14						.18	.20							.06	.12	.21			1.19	
Lock Haven	do	.35	.05					.38	.21					.14	.45				.57	.02	.22	.08						.10		.25	.06	.04	2.92	
Lykens	Susquehanna	.03	.56			T.		T.	.08	.02				.39	.06				.35					.05				.16	.06	.11	.38	1.03	3.23	
Mauch Chunk	Lehigh	1.69						1.30	.52	.08				.96	1.34				.38				.05					.05	.53	.58	.06		.09	7.63
Mifflintown	Juniata	.10						.22					2.70	.51	.04				.56				.06					.05	.12	.17	.03	.47	5.03	
Montrose	N. Br. Susq.	1.02						.30						.35	.45				.53			.10		.04				.59	.07	1.12	.06		4.63	
Morris Run	N. Br. Susq.	.49				T.		.03	.24				.24		.08	.45			.10		.15			T.				.10	.05	.65	.03		3.61	
Mount Pocono	Upper Del.	.40																																

Daily Precipitation for August, 1927—Continued from page 38

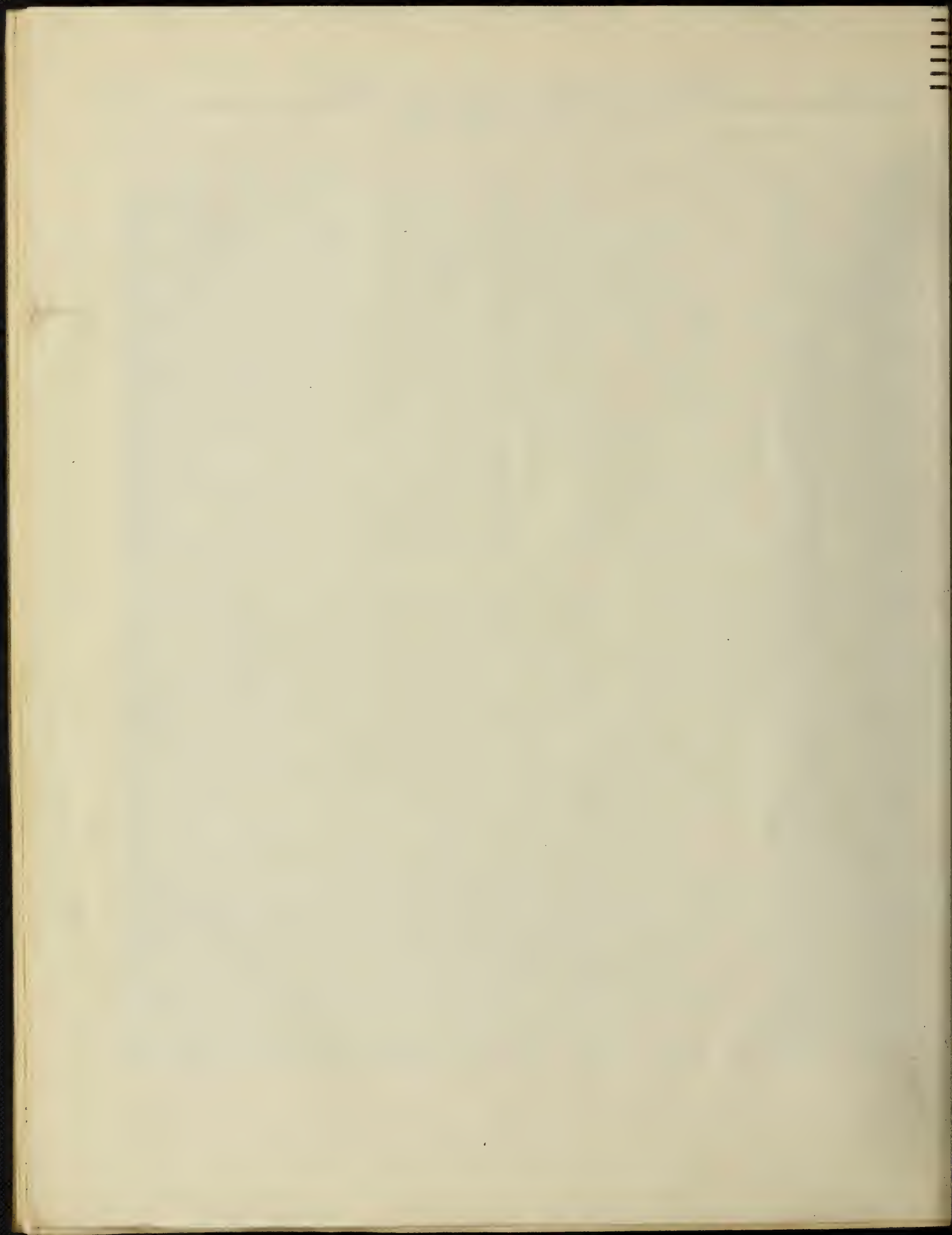
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....	.41						.03	.79	.08					.15	.99			.26	.14	.28				.05						.15	.01	3.36	
Beaver Falls|||	Beaver.....	1.11	.03					.28	.22	.14					.20	1.07			.21	.24	.04				.11						.11	.04	3.80	
Bradford.....	Allegheny.....							.28													.25			T.					.75	.10			3.20	
Brookville.....	do.....					T.		.25	1.05						.80							.17		.06	.05						.24	.13	2.80	
Butler.....	Ohio.....	.15						.59	.18				.08	.62					.38	.12	.03	.17									.24	.13	2.80	
Claysville.....	do.....	.32	.10	T.				.02	.31	T.					.63				T.	.17		.04									.14	.09	1.82	
Cloe|||	Allegheny.....	.05				.08		.15	.19						.60				.03	.43	.10	.06			T.						.10	.25	2.04	
Clymer|||	Conemaugh.....	.92						.26	.21	.57		.07			1.06				.46		.20										.20		3.95	
Confluence|||	Youghiogheny.....	.19	.15			.20			.05	.83					.05	.54			.73		.13	2.30		.40						.45	.08	.20	6.30	
Coraopolis|||	Ohio.....	.13	T.					.02	.78	.17					.07	.78			.21	.03	.58	.19			.02				T.		.12	.03	3.13	
Corry.....	Allegheny.....	"	.01			.05		.29	.30						.41				.06	.04		.27	T.	.22	.30						.10	.22	.01	2.28
Coudersport.....	do.....					.02		.70	.23						.85				.49		.05			.07							.35		2.76	
Creekside.....	Allegheny.....	.11						*	.71	T.		.01			1.03			.52			.02									*	.15		2.55	
Derry.....	Conemaugh.....	.43						.82		T.	T.				.65				.33		.34										.39		2.96	
Donora.....	Monongahela.....	1.33	.37					*	.55	.37					*	.73			.20		.01	.04			.08						.05		3.73	
Ebensburg.....	Conemaugh.....	.48	.11					.04	.40						.75	.06			.56		1.85				.06								4.44	
Elk Lick.....	Youghiogheny.....	.20		.10						1.10		.19			.80				.45	.22	.13										.75	.17	2.71	
Falls Creek.....	Allegheny.....		.12			.16		.17	.86						.38				.45	.07					.18						.15			
Franklin|||	Allegheny.....		.06			.02		.25	.53	.18					.09	.23			.21	.05	.14	.09			.20						.42	.03	2.50	
Freeport|||	Allegheny.....	2.00	.19					.54	.25	.70					.06	.88			.40		.26	.53	.01		.05						T.	.46		5.92
Greensburg.....	Youghiogheny.....	.10		T.				.21	.53	.07					.95			T.	.44	T.	.07	T.			.09							T.		2.92
Greenville.....	Beaver.....	.03				.04		.12	.33						.36			T.	.08	.01					.27	T.					.58	.01	1.83	
Grove City.....	Beaver.....	.32				T.		1.18	.60						.25				.23	.08					.25						.20	.04	3.15	
Herr's Isl. Dam|||	Ohio.....	.28	T.					.01	.15	.26					T.	.91			.13	.03	.01										.08	T.	1.86	
Indiana.																																		
Indiana.....	Conemaugh.....							.13	.53	T.					.98				.27	.04	.13				.01						.06	.15	2.29	
Ingram.....	Ohio.....	.04						.06	.35	.05					.78				T.	.27		.10			.04						.29		2.04	
Irwin.....	Youghiogheny.....	.10						.32	.63	.08		T.			.70				.02	.64	.02	.56	.02	.01							.12	.31	3.51	
Johnstown.....	Conemaugh.....	.07		.01				.31	1.18						.53				.55	T.	.03	.17		.14	.03						.11	.09	3.41	
Kregar|||	Youghiogheny.....	.27						.04							.06	.38			.03	.01		.02		.30							.13		2.50	
Linesville|||	Beaver.....					.04			1.01	.14																								
Lock No. 4|||	Monongahela.....	.25	.48	T.				.35	.53	.75					.77				.22			.03			.11						.10	.03	3.62	
Lycippus.....	Conemaugh.....	T.						.40	1.18	.65					.83				.30	T.	.45				.08						.25		4.14	
Mount Lebanon.....	Ohio.....	.51						.06	.20	.15					.60			T.	.27		.07				.03						1.00		2.89	
New Castle|||	Beaver.....	.02	.02	T.		T.		T.	.35	.09					.66	.11	T.	T.	.21	.13	.04	T.			.15	T.					.12	.11	2.01	
Newell.....	Monongahela.....	.19	.32						.52	.05					.10	.31			.30		.07				.04						.05	.15	2.10	
Parkers Landing|||	Allegheny.....	T.	.05			T.	T.		.60	.50					.10	.85			.40	.12			.10	.40	.08						.22	T.	3.42	
Pennline|||	Beaver.....					.05		.08	1.23						.12	.83									.16						.10	.09	.04	2.70
Pittsburgh***	Ohio.....	.01						.08	.48						.96				.12	.12	.03	T.			T.						.04	.02	T.	1.86
Ridgway.....	Allegheny.....														.25					.02											.58	.80	2.47	
Saegertown|||	Allegheny.....					.08		.06	.28						.02	.48			.35		.53				.11						.07	.07	3.80	
Saltsburg|||	Conemaugh.....	.59	.10						.45	1.03					.48	.15			.10		T.	.05									.52	.45	T.	3.04
Sharon|||	Beaver.....		.06			T.		.81	.53	.19																								
Somerset.....	Youghiogheny.....	.60	.30					.42	.96	.08					.80				.45	.05	1.03	.15									.30		5.14	
Springdale|||	Allegheny.....	.20	T.					.03	.26	.12					.02	.50			.12	.24	.03	1.32	.14		.01						.10	.03	3.12	
Uniontown.....	Monongahela.....	.35		.01				.15	.75	.06					.60			T.	.33		.09				.03						.04	.20	2.61	
Unity Reservoir|||	Youghiogheny.....	.09						.20	.67	.28					1.20	.05			.53	.03	.08				.12						.58		3.83	
Vandergrift.....	Conemaugh.....	.14						.71	.95						.79				.33	.21	.23										.04	.03	3.45	
Warren.....	Allegheny.....	.05				.10			.16	.08					.25				.14	.08	.20	.06	.36	.10	.15						.41	.46	.03	2.63
Washington|||	Ohio.....	.62		.01		T.		.07	.72						.81				.06	.05	T.	.04		.09		T.					.01	.14	.10	2.72
Westford|||	Beaver.....					.05			.53						.32	.22									.44						.16		1.72	
West Newton|||	Youghiogheny.....	.70	.15	.06	T.			.08	.36	.40					T.	.77			.25		T.	.15			.07						.35	.03	3.37	
Zelienople|||	Ohio.....	.72	.20			T.		.58	.52	.16	T.				.18	.98			.32	.43	.12	T.	T.		.09						.14	.06	4.50	
Lake Drainage.																																		
Erie***	Lake Erie.....					.01		.09	.12						.57					T.	.06				.21	.09					T.	.01	.05	1.21
West Bingham.....	Genesee.....																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg.
‡ Mdt. to mdt.

Daily Temperatures for August, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum...	78	76	74	81	83	80	84	84	83	79	80	82	84	74	74	76	81	59	77	75	79	81	83	70	74	68	59	65	76	79	82	76.8	
	Minimum...	69	62	48	53	59	56	59	59	66	51	53	56	62	62	62	51	55	57	56	59	57	59	62	65	62	50	52	53	58	54	55	56.8	
Altoona.....	Maximum...	80	71	70	77	77	79	77	72	75	73	73	77	79	67	70	72	78	65	71	65	73	73	82	73	72	70	63	61	69	75	74	72.7	
	Minimum...	61	60	47	53	58	48	53	61	64	43	49	53	57	60	57	46	50	55	52	56	55	54	57	56	42	45	52	51	50	47	52	53.0	
Beaver Dam.....	Maximum...	86	84	78	79	79	82	87	85	82	76	81	82	87	84	72	76	77	73	75	76	79	84	84	83	72	74	74	67	70	72	78	78.6	
	Minimum...	62	55	50	50	54	50	57	65	59	46	51	52	58	64	53	46	50	58	52	54	54	55	59	53	43	45	49	51	52	53	54	53.4	
Brookville.....	Maximum...	81	71	75	78	76	80	81	73	74	...	83	89	86	74	71	74	76	70	73	71	79	84	67	72	74	65	64	68	75	77	...	75.2 ^b	
	Minimum...	60	40	36	38	41	40	63	61	38	...	36	48	54	47	41	37	47	56	55	53	50	45	41	34	38	46	51	51	48	46	...	46.2 ^b	
Butler.....	Maximum...	81	71	77	78	76	84	83	77	75	77	83	89	73	85	72	75	77	70	76	77	79	86	84	69	75	75	66	65	66	70	80	76.5	
	Minimum...	54	43	47	53	46	51	54	58	41	48	47	58	54	56	42	48	53	55	55	44	54	57	54	40	44	44	51	46	53	50	47	49.9	
Carlisle.....	Maximum...	84	80	75	81	82	86	82	79	83	82	81	86	88	82	76	80	80	78	80	82	81	84	89	88	75	75	68	65	79	84	83	80.8	
	Minimum...	64	63	55	60	64	52	55	63	70	47	53	63	60	64	59	50	60	54	62	60	59	58	67	63	45	45	54	57	55	51	58	57.7	
Catawissa.....	Maximum...	80	74	77	81	81	76	79	79	81	78	79	84	87	79	75	78	69	78	73	78	79	84	73	74	71	63	67	76	71	79	76.9		
	Minimum...	64	59	43	49	54	50	52	60	64	45	50	57	59	60	56	45	51	55	50	58	55	55	55	58	40	45	46	54	51	55	57	53.1	
Chambersburg.....	Maximum...	80	76	74	78	80	80	79	77	80	77	74	78	82	79	74	75	78	72	76	72	78	77	85	80	73	70	65	66	73	80	83	76.5	
	Minimum...	65	60	57	58	59	52	56	63	70	47	53	63	60	63	60	47	51	58	53	61	59	58	65	61	45	46	54	57	56	53	57	57.0	
Claysville.....	Maximum...	86	81	73	82	83	82	82	86	82	83	84	89	90	84	78	82	79	71	77	77	85	91	89	83	77	76	72	73	72	76	83	81.2	
	Minimum...	64	57	53	48	59	46	55	68	61	41	50	48	56	65	54	42	45	57	58	51	55	53	64	52	38	42	43	48	53	57	50	52.7	
Clearfield.....	Maximum...	92	88	78	83	83	80	81	82	81	83	83	87	86	78	87	81	75	71	73	86	86	88	83	80	81	77	74	62	74	77	81	81.3	
	Minimum...	62	67	40	49	49	46	67	46	64	42	50	52	58	61	56	42	49	56	56	57	56	56	55	55	53	40	53	52	53	49	53	53.0	
Coatesville.....	Maximum...	79	80	72	80	81	81	84	83	84	77	77	82	84	75	75	76	82	69	76	75	79	82	83	72	74	67	60	64	74	80	83	77.1	
	Minimum...	66	63	56	56	55	55	56	62	68	52	52	51	59	65	61	50	52	57	58	57	53	54	68	57	40	51	53	57	58	50	80	56.5	
Corry.....	Maximum...	80	73	74	76	71	75	79	71	69	74	81	82	85	81	72	70	76	74	68	75	74	82	81	74	72	73	68	61	64	71	74	74.2	
	Minimum...	59	51	40	42	53	43	55	62	53	42	47	45	56	62	45	41	47	56	53	48	50	50	60	50	38	42	47	50	53	54	50	50.0	
Emporium.....	Maximum...	77	69	71	76	75	76	77	73	72	71	73	75	79	61	69	71	73	69	68	71	72	78	82	66	69	71	71	67	69	68	70	72.6	
	Minimum...	62	53	40	46	50	48	47	62	53	43	43	54	60	60	51	42	48	56	58	55	58	55	58	49	42	42	51	55	55	54	55	51.8	
Erie.....	Maximum...	79	66	70	75	71	76	85	74	68	72	77	80	76	67	71	73	73	68	73	73	81	78	65	70	71	67	64	68	72	74	72	72.8	
	Minimum...	62	56	53	54	59	54	64	67	57	52	58	57	66	65	58	57	56	59	59	55	57	61	58	54	49	57	57	53	58	57	62	57.8	
Franklin.....	Maximum...	84	70	78	80	76	81	82	74	72	78	83	84	88	77	70	75	76	73	72	77	79	82	83	67	75	76	69	62	67	73	78	76.2	
	Minimum...	63	50	41	45	49	45	49	62	56	43	47	49	43	60	49	43	45	54	52	52	52	51	54	52	40	43	46	50	53	54	53	49.8	
Freeland.....	Maximum...	78	70	70	75	76	76	81	80	73	71	76	80	82	68	66	69	73	64	74	73	76	77	81	72	70	66	58	64	70	72	75	72.8	
	Minimum...	63	56	45	52	56	51	55	61	62	46	53	55	58	57	54	46	52	51	48	54	52	58	62	52	43	51	47	52	54	50	55	53.3	
Gettysburg.....	Maximum...	80	79	75	78	82	83	85	78	83	81	76	82	83	80	76	78	83	77	79	77	80	81	88	80	75	72	65	65	74	81	82	78.6	
	Minimum...	67	62	58	57	54	57	54	75	64	70	51	52	64	61	63	61	61	52	57	55	61	62	62	67	64	47	49	53	57	54	64	56	59.3
Greensburg.....	Maximum...	84	73	72	79	78	83	84	80	77	78	83	82	86	74	74	75	69	75	73	81	83	85	78	78	75	74	68	68	77	78	77.3		
	Minimum...	65	57	59	55	59	49	61	68	63	45	57	54	60	66	57	46	48	57	47	47	55	57	59	55	43	48	53	52	52	54	51	54.8	
Grove City.....	Maximum...	74	74	69	74	72	72	80	71	71	70	76	78	81	77	71	69	70	68	68	76	77	79	78	68	70	64	60	65	72	72.1			
	Minimum...	64	51	43	46	53	46	56	63	54	44	49	56	64	52	43	50	55	53	52	51	49	57	49	40	47	41	53	48	54	50	51.0		
Hamburg.....	Maximum...	78	76	70	79	80	81	80	79	81	80	81	82	80	72	80	76	75	77	81	80	80	83	82	73	71	...	...	...	...	...	...	78.4 ^a
	Minimum...	56	53	44	54	55	56	53	60	69	47	50	57	58	61	61	46	50	57	52	52	55	59	60	53	43	51	...	...	...	...	...	54.5 ^a
Harrisburg.....	Maximum...	80	77	69	80	82	80	82	79	81	77	74	78	83	70	73	76	81	67	78	74	77	79	85	71	73	70	61	64	73	78	79	75.8	
	Minimum...	64	62	55	60	64	56	60	66	63	57	57	63	66	59	56	56	58	56	62	60	64	67	60	52	52	54	58	58	56	60	59.5		
Hawley.....	Maximum...	76	74	76	82	79	81	86	85	79	77	80	84	84	67	72	74	76	67	77	74	76	77	83	83	77	75	69	64	63	71	79	76.4	
	Minimum...	66	57	39	43	48	45	49	56	66	41	47	51	57	53	56	41	46	51	49	51	50	57	54	62	58	39	45	50	55	56	46	51.1	
Huntingdon.....	Maximum...	84	75	78	80	81	82	78	75	79	77	76	82	83	69	76	76	79	68	76	69	77	80	84	75	74	73	66	66	74	78	76.2		
	Minimum...	61	60	47	57	51	47	54	62	67	43	50	58	59	62	55	45	47	57	54	59	59	57	64	59	42	45	54	56	55	50	57	54.6	
Indiana.....	Maximum...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Johnstown.....	Maximum...	78	77	72	80	79	84	79	75	80	81	80	87	90	78	76	77	80	65	77	69	80	81	88	72	78	78	62	67	68	81	75	77.2	
	Minimum...	62	59	53	59	58	50	54	63	60	47	51	61	61	66	60	47	48	58	57	59	57	58	61	56	44	49	53	54	50	51	53	55.5	
Lancaster.....	Maximum...	86	84	78	84	85																												



57.03
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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII. SEPTEMBER, 1927. No. 9

GENERAL SUMMARY.

September was an ideal month for out-of-door pursuits. It averaged slightly above normal in temperature and well below the average in rainfall. The first half was generally warm, with the maximum for the month, and in many sections for the entire summer, occurring on the 15th, when readings well over 90° were recorded. From the 18th to 28th temperatures were well below the seasonal average and light to heavy frosts formed in many sections on the 23d and 24th. The month closed with temperatures well above the normal. Rainfall was generally light and unevenly distributed. Some stations in the northern tier of counties reported less than a half-inch, while others in south-central sections showed an excess for the month. On the average rain fell on but six days, while twenty-five days averaged either clear or partly cloudy. A severe wind and rain storm visited portions of Delaware and Schuylkill counties on the 15th, blowing down trees and poles and unroofing several small buildings. There was no evidence of tornadic action, however. Another severe storm did considerable similar damage at Harrisburg on the 18th. Crops regained considerable of the ground lost during August, although late corn, while a large crop, was of very inferior quality and of little use except for ensilage. Pastures were good to excellent at the close of the month, but early rains would benefit them. Potatoes were good in most sections, although rot was increasing to some extent. Tobacco, while not so good as last year, was reported as fair to good. Unfavorable weather conditions during August affected the apple crop to a great extent and the crop at best is only fair. Truck crops, except sugar corn, were plentiful and appeared to be the best for several seasons.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined from reports of 84 stations, was 64.9°, or 0.9° in excess of the September normal. The highest monthly mean was 70.0°, at Donora, and the lowest, 56.8°, was recorded at Gouldsboro. The highest temperature recorded during the month was 97°, at Vandegrift on the 15th, while the lowest for the month occurred at two stations: Brookville and Somerset, on the 24th. The greatest daily range of temperature was 51°, at Carlisle, on the 25th.

PRECIPITATION.

The average precipitation for the State, deduced from reports of 136 well-distributed stations, was 2.08 inches, a deficiency of 1.40 inches as compared with the normal September rainfall in Pennsylvania. The greatest monthly total was 7.00 inches, at Lancaster, and the least, 0.20 inch at Wellsboro. The greatest amount registered in any 24 consecutive hours was 6.60 inches, at Lancaster during the storm of the 18-19th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total move- ment, in miles	Velocity, in miles per hour			
				8 a m.	12 noon.	8 p. m.		Average	•Highest	Direction	Date
Erie.....	275.0	374.3	73	67	54	67	8,292	11.5	38	se.	30
Harrisburg.....	219.7	373.5	59	82	61	69	3,554	4.9	25	w.	18
Philadelphia.....	261.3	373.5	70	77	61	69	5,305	7.4	26	sw.	30
Pittsburgh.....	256.7	374.0	69	80	74	60	5,529	7.7	45	w.	18
Reading.....	245.7	373.5	66	79	52	70	3,246	4.5	25	se.	27
Scranton.....	202.2	374.0	54	92	67	78	3,791	5.3	23	sw.	30

* For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	59.6			4.84						
1889.....	61.9			5.05						
1890.....	62.2	91	25	4.57	8.54	2.05	10	9	11	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9	8
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5	6
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9	10
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9	10
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7	6
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10	11
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5	6
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7	9
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6	7
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6	7
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12	14
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4	3
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6	5
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9	10
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8	10
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11	12
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10	8
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5	8
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5	8
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5	6
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6	8
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6	9
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8	11
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4	4
1923.....	64.8	92	22	3.55	8.68	1.54	13	10	7	10
1924.....	59.8	99	26	6.44	11.72	3.46	11	7	12	11
1925.....	67.5	99	24	2.80	7.63	0.86	11	12	7	8
1926.....	64.2	99	25	5.86	13.90	2.23	11	7	12	12
1927.....	64.9	97	27	2.08	7.00	0.20	18	7	5	6

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.4	7.7	3	2.0	30	28
Phillipsburg.....	Delaware.....	2.9	9.7	3	1.0	30	22
Mauch Chunk.....	Lehigh.....	2.2	1.1	20	2.6	12	12
Wilkes-Barre.....	Susquehanna.....	3.0	5.6	4	1.9	28	20
Williamsport.....	Susquehanna.....	0.3	0.5	1	0.2	11	20
Harrisburg.....	Susquehanna.....	3.6	4.2	6	3.2	29	17
Greensboro.....	Allegheny.....	12.3	15.0	12	11.6	10	22
West Newton.....	Youghiogheny.....	0.5	0.9	1	0.3	25	20
Lock No. 4.....	Monongahela.....	9.5	10.1	20	9.2	6	31
Pittsburgh.....	Ohio.....	10.1	11.2	13	9.7	5	25
Beaver Dam.....	Ohio.....	7.6	8.8	13	7.1	14	30

Climatological Data for September, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	65.4		95	15	40	25	37	1.64	-1.71	0.72	0	5	20	10	0	s.	John A. Frick.
Altoona	Blair	1,615	40	63.2	+0.5	88	15	35	24	35	3.57	+0.79	0.96	0	6	23	5	2	w.	Lewis E. Boller.
Arendtsville	Adams	700		65.6		94	16	37	23	40	0.98		0.36	0	7	16	7	7	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	43	66.0	-0.2	93	15	41	25	32	1.03	-2.36	0.60	0	3	22	4	4	nw.	Lehigh University.
Bustleton	Philadelphia	125	8	67.2		96	15	42	24	37	3.29		1.47	0	6	14	9	7	w.	Experiment Station.
Carlisle	Cumberland	467	60	68.4	+3.7	96	15	35	25	51	1.74	-1.88	1.12	0	3	21	4	5	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	63.1	-0.4	94	15	34	24	39	0.88	-2.52	0.61	0	5	23	2	5	s.	H. H. Yetter.
Center Hall	Center	1,272	31	62.4	+0.4	90	15	32	22 [†]	43	0.76	-2.23	0.42	0	3	22	5	3	s.	S. W. Smith.
Chambersburg	Franklin	580	27	65.8	-0.1	92	15	35	22 [†]	43	0.76	-1.98	0.40	0	4	19	5	6	s.	William B. Spear.
Clearfield	Clearfield	1,120	17								2.48	-1.30	1.08	0	6	23	4	3	w.	E. W. Hess.
Coatesville	Chester	380	39	65.4	-0.7	93	15	36	26	38	3.00	-0.90	2.91	0	6	18	7	5	s.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	65.0	+0.9	93	15	37	23 [†]	39	3.35	-0.18	3.18	0	7	23	0	7	sw.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	61.2	-0.2	88	15	34	24	39	1.24	-2.20	0.42	0	6	20	6	4	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	65.4	-0.1	93	15	38	25	36	3.44	-0.04	3.26	0	4	18	5	7	n.	Ira J. Keath.
Freeland	Luzerne	1,970	12	61.3		87	15	38	24	31	1.60		1.19	0	8	13	10	7	nw.	Theo. Reichmann.
George School	Bucks	190	20	66.6	+1.7	94	15	39	26	38	2.35	-0.67	1.30	0	5	21	6	3	n.	Prof. N. W. Swayne
Gettysburg	Adams	553	53	67.0	+2.0	94	15	39	25	38	1.40	-1.97	1.15	0	4	15	9	8	s.	Dr. Henry Stewart
Gordon	Schuylkill	840	23	62.2	+0.4	92	15	30	24	42	2.81	-2.15	1.66	0	5	20	4	6	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	8	56.8		86	15	28	25	49	2.19	-1.13	0.97	0	9	18	7	5	w.	Gustav Holtz.
Hamburg	Berks	535	34	64.6	-0.9	93	15	35	26	40	0.94	-3.26	0.88	0	3	22	4	4	w.	State Sanatorium.
Hanover	York	600	23	65.5	-1.7	90	15	41	24	27	2.49	-0.36	2.18	0	5	20	4	6	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	66.8	+1.0	93	15	44	25	31	2.84	-0.01	2.69	0	3	11	8	11	n.	U. S. Weather Bureau.
Hawley	Wayne	900	8	61.0		86	15	32	24	43	2.57		1.46	0	8	21	3	6	nw.	J. S. Pennell.
Holtwood	Lancaster	200	12	67.9		92	15	46	25	28	1.39	-0.98	1.25	0	4	14			w.	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	64.6	+0.3	94	15	34	23	42	2.42	-1.00	0.78	0	6	21	3	6	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	67.1	+2.6	95	7	33	23 [†]	50	1.32	-1.84	0.77	0	4	16	8	6	.....	John S. Madore.
Lancaster	Lancaster	255	39	64.5	0.0	96	15	35	25	43	7.00	+3.66	6.60	0	5	24	5	1	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	62.7	+1.4	90	15	32	24	46	0.50	-2.53	0.18	0	4	20	5	5	.....	C. P. Darling.
Lebanon	Lebanon	469	86	65.5	+0.3	95	15	38	24 [†]	39	2.22	-0.96	1.95	0	4	20	6	4	nw.	S. B. Benzing.
Lewisburg	Union	450	52	65.4	+3.4	96	15	34	24	44	0.79	-2.74	0.32	0	7	18	4	8	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	66.0	+1.3	92	15	37	24	39	0.66	-2.84	0.56	0	3	16	10	4	sw.	Joseph Beaver.
Lykens	Dauphin	680	12	64.5	+0.3	94	15	32	24	48	2.72	-1.91	2.18	0	5	23	3	4	sw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	63.5	-0.5	94	15	32	25	47	1.18	-2.69	0.82	0	5	22	4	4	w.	R. K. Wintermute.
Midlinton	Juniata	445	23	64.2	+0.4	94	15	35	24	41	1.95	-1.84	1.25	0	4	20	3	7	w.	Wellington Smith.
Montrose	Susquehanna	1,720	24	61.7	+0.7	85	15	36	22	34	2.14	-1.78	0.80	0	6	18	6	6	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	59.4	+1.3	88	15	34	23	33	2.29	-2.60	1.20	0	7	16	7	7	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	15	60.9	-0.5	92	15	31	24	40	0.93	-2.55	0.36	0	5	22	4	4	w.	A. H. Boatman.
Narberth	Montgomery	300	8	66.4		94	15	41	25	34	3.74		2.04	0	8	17	6	7	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	64.8	-0.6	96	15	38	25 [†]	38			1.45	0	5	24	2	4	w.	North Springfield Water Co.
Palmerton	Carbon	398	10	64.2		94	15	35	22 [†]	42	0.99		0.61	0	5	11	14	5	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	69.4	+1.4	95	15	51	24	31	2.59	-0.79	1.67	0	6	14	9	7	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	2	69.2		95	15	49	24	31	2.95		1.62	0	4	15	8	7	.....	Julius Bernstein.
Phila. Navy Yard.	Philadelphia	12	11	68.9		93	15	48	25	28	2.92		1.97	0	6				.....	Commandant, Navy Yard.
Phila-Point Breeze.	Philadelphia	90	2	69.8		93	15	51	24 [†]	28	2.20		1.56	0	6	10	14	5	w.	Atlantic Refining Co.
Phoenixville	Chester	100	16	64.3	+0.7	95	15 [†]	30	24 [†]	47	3.37	+0.29	1.54	0	7	23	5	2	s.	North Springfield Water Co.
Quakertown	Bucks	496	42	64.8	+1.2	93	15	33	25	43	1.35	-2.31	0.77	0	5	17	6	7	nw.	John E. Benner.
Reading	Berks	325	57	67.4	+1.1	95	15	43	25	31	2.08	-1.57	1.53	0	5	15	9	6	s.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	63.4	+0.5	90	15	39	24	35	1.45	-1.41	1.01	0	5	12	7	11	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	64.7	+0.3	94	15	35	23	42	0.64	-3.02	0.52	0	4	20	6	4	nw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31	67.0		91	15 [†]	43	25	31	2.87	-0.36	2.06	0	5	17	7	6	w.	W. S. Guiles.
State College	Center	1,217	42	64.6	+2.2	90	15	36	22	39	1.96	-1.10	0.87	0	5	15	9	6	w.	C. A. Kern.
Stroudsburg	Monroe	500		61.5		92	15	32	24 [†]	44	1.36		0.71	0	6	19	6	5	nw.	State Normal School.
Towanda	Bradford	754	32	62.1	+0.1	88	15	35	22 [†]	41	0.86	-2.17	0.31	0	6	21	4	5	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	69.4	+0.7	88	15	28	24	45	0.20	-3.01	0.17	0	2	26	3	1	sw.	George W. Hill.
West Chester	Chester	455	89	65.8 ⁴	+0.5	93 ¹	15	42 ¹	23	33 ⁴	3.21	-0.71	2.40	0	5	19	5	6	w.	Arthur M. Hay.
Williamsport	Lycoming	521	40	61.9	-2.0	92	15	35	24	37	0.64	-2.57	0.30	0	7	15	8	7	nw.	Miss Veronica E. April.
York	York	400	39	66.8	+1.2	95	15	35	24	43	1.95	-1.38	1.87	0	3	20	7	3	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	67.0	+0.8	95	15	36	24	38	2.20	-0.39	0.68	0	6	13	10	7	sw.	U. S. Engineer.
Bradford	McKen.	1,460	12										1.25	0	5				.....	Bradford Electric Co.
Brookville	Jefferson	1,173	36	60.2 ¹	0.5	91 ¹	15	27 ¹	24	47 ¹	1.88	-1.44	0.99	0	6	19	4	7	nw.	John Fawcett.
Butler	Butler	1,152	2	65.0		92	15	34	23	39	3.53		0.83	0	5	19	7	4	w.	Foraker Ferrell.
Claysville	Washington	1,150	23	68.2	+3.0	96	16	32	22	47	1.34	-1.46	0.66	0	11	19	10	1	.....	J. L. Melvin.
Corry	Erie	1,430	15	63.8		89	15	30	24	44	2.17	-1.92	0.66	0	11	19	10	1	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	30	65.7	+0.3	90	15	33	24	42	2.57	-0.22	0.98	0	4	16	14	0	sw.	Ted R. Wineman.
Donora	Washington	762	1	70.0		94	15	43	24	38	2.09		0.85	0	6	10	12	8	nw.	Donora Zinc Works.
Ebensburg	Cambria	2,000	9	61.8		84 ¹	15	30	22	38 ¹	2.93		1.28	0	6	18	7	5	w.	D. H. Jones.
Elk Lick	Somerset	2,680	10	61.1		86	18	31	24	41	1.56		0.96	0	5	23	3	4	w.	J. S. Stevanus.
Franklin	Venango	957	54	63.4	+1.1	93	15	32	24	44	2.47	-1.02	1.13	0	5	15	6	9	w.	Robert A. Fergus.
Greensburg	Westmoreland	1,150	19	67.1	+2.9	91	15	34	24	40	2.25	-0.95	1.18	0	6	18	8	4	w.	Westmoreland Water Co.
Greenville	Mercer	950	32	65.2	+3.4	96	15	35	22	43	1.25	-1.97	0.54	0	8	17	7	6	sw.	J. R. Marks.
Grove City	Mercer	1,256	20	62.6	+0.3	84	15	32	23	40	2.70	-0.38	0.89	0	7	15	10	5	nw.	Prof. H. W. Harmon.
Indiana	Indiana	1,320	30											0					.....	Frank M. Smith.
Ingram	Allegheny	850	4	66.3		92	15	36	22	36	2.19		0.67	0	8	8	12	10	nw.	W. R. Gormly.
Irwin	Westmoreland	1,100	30	63.6	-0.8	92	15	33	24	40	1.36	-1.41	0.45	0	6	26	3	1	.....	W. F. Gallagher.
Johnstown	Cambria	1,184	45	66.7	-1.5	93	15	36	21	42	3.98	+0.48	2.37	0	9	15	13	2	w.	E. C. Lorentz.
Lycippus	Westmoreland	1,420	35	67.1	+1.5	88	15	39	22 [†]	33	1.82	-1.21	0.75	0	4	13	14	3	sw.	Westmoreland Water Co.
Mount Lebanon	Allegheny	1,200	1	65.8		90	15	38	22	37	2.46		0.66	0	6	18	8	4	nw.	Fred

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

Reference letters, a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow
 !! Post-Office addresses are as follows: of Beaver Dam, Beaver; of Elk Lick, Salisbury; of Ingram, Crafton, Pittsburgh; of Lycippus, Greensburg; of Neshaminy, Oak-
 ford; of Sharon, Farrell; of Shawmont, Manayunk; of West Bingham, Genesee.

Daily Precipitation for September, 1927

Continued on page 44

Daily Precipitation for September, 1927—Continued from page 43

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio								.05			.68		.42						.56										.45	.04		2.20	
Beaver Falls|||	Beaver								.16			.72		.38						.66		T.								.33	.04		2.29	
Bradford	Allegheny																																	
Brookville	do							.25			1.25		.25								.03								.10				1.88	
Butler	Ohio							.78			.37		.50		.01					.99									.88				3.63	
Claysville	do							T.			.08		.02	.31						.83									.10				1.34	
Cloet||	Allegheny							.10	.27		.48		.38							.51		.03							.08				1.85	
Clymer||	Conemaugh	T.					1.11					.56		.38						.30	.17								.10				2.74	
Confluence|||	Youghiogheny							.13	.06			.38		.10	.20		.05			.95													1.87	
Coraopolis|||	Ohio							.22				.53		.43						.78		.01							.25	.01			2.23	
Corry	Allegheny			T.				.05			.45	.21	.57							.17		T.	.02	.08	.03				.02	.45	.12			2.17
Coudersport	do							.10				.23	.35																.06				0.74	
Creekside	Allegheny								1.21			.45	.25			.07				.79			.03						.11				2.91	
Derry	Conemaugh							.53				.82	.26							.98													2.59	
Donora	Monongahela							.01	.21			.85	.34			T.				.58		T.							.08	T.			2.07	
Ebensburg	Conemaugh							1.10				.47	.08							1.21	.07								*				2.93	
Elk Lick	Youghiogheny							.05				.35	.05							.96													1.56	
Falls Creek	Allegheny							.33			1.28		.31							.41									.10				2.43	
Franklin|||	Allegheny							.12				1.13	.39							.50										.33			2.47	
Freeport|||	Allegheny							.50	.02			.45	.24	.02						.40		.04								.13	T.		1.80	
Greensburg	Youghiogheny							.15			.55	.15	.22							1.14	.04									*	*		2.25	
Greenville	Beaver							.04			.11	.02	.53	T.					.54		T.	T.		.01						*	*		1.25	
Grove City	Beaver							.39			.38	.09	.51							.89	T.								.28	.16			2.70	
Herrs Isl. Dam|||	Ohio							.25				.72	.56							.45		.01							.27				2.28	
Indiana																																		
Ingram	Conemaugh																			.47	T.								.20	.10			2.19	
Irwin	Ohio							.35	.01	.67	.01		.37							.45	.05		.01						.10				1.36	
Irwin	Youghiogheny							.12				.36	.28							.45	.05								.10				1.36	
Johnstown	Conemaugh							.57			.50	.13	.06		.25	.04	.01			2.37									.05	T.			3.98	
Kregar|||	Youghiogheny							.20	.05		.66	T.		.14		.04				.54									T.	T.			1.63	
Lanesville||	Beaver										.87	.01	.73							.33		.01							.37				2.32	
Lock No. 4|||	Monongahela							T.				.47	.29				.07			.01	.82								.08				1.74	
Lycippus	Conemaugh							.11				.75	.23							.73													1.82	
Mount Lebanon	Ohio							.41			.46	.20	.60							.52									.27				2.46	
New Castle|||	Beaver							.36				.27	.01	.51	.01					.84									.09				2.09	
Newell	Monongahela										.25	.11	.33					.01		.07	.05								.09				0.91	
Parkers Landing||	Allegheny							.78				1.65	.26							.95									.65				4.28	
Pennline|||†																																		
Pittsburgh**	Beaver											1.60	.82							.61		.36							.45				3.84	
Pittsburgh	Ohio	T.					.25	T.	T.		.63		.48		T.				.59		.01								.19	.03			2.18	
Ridgway	Allegheny																																	
Saegerstown|||	Allegheny										.95		.49							.41									.40	.04			2.29	
Saltsburg|||	Conemaugh							.80	.15		.63		.35	.03						.78									.08				2.82	
Sharon|||	Beaver							.11				.20	.33							.56		T.							.17	T.			1.37	
Somerset																																		
Springdale|||	Youghiogheny							.28				1.05	.10				.29			.34									.12				2.18	
Springdale|||	Allegheny							.43				.51	.32	.02					T.	.63		.04							.15				2.10	
Uniontown	Monongahela							T.	T.		.33	.02	.35	.02						.47									T.	.01			1.20	
Unity Reservoir†	Youghiogheny							.11			.18	.32	.20							.81									.08				1.70	
Vandergrift	Conemaugh							.40	.53		.74		.32						1.05		.05								.13	.03			3.25	
Warren	Allegheny							.05			.10	.10	.42							.16		.04							.10	.24			1.21	
Washington†																																		
Westford|||	Ohio							T.			.22		.25	.01	T.				.80		.01	T.							.08				1.37	
Westford|||	Beaver							.05				.95	.56							.35									.37	.08			2.36	
West Newton|||	Youghiogheny							T.				.97	.30							.45													1.82	
Zelienople|||	Ohio							.46				.69	.53	.10						.85		.01							.56	.02			3.22	
Lake Drainage.																																		
Erie***	Lake Erie			T				.04	T.			.09	T.		.56				T.			.05	.11	.62	.20					.24	.01		1.92	
West Bingham	Genesee																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of Unity Reservoir, Greensburg.
‡ Mdt. to mdt.

Daily Temperatures for September, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	69	81	86	82	80	83	83	81	82	80	81	77	73	79	95	81	83	83	72	74	70	70	68	71	76	78	80	63	80	86	78.2		
	Minimum	62	61	60	60	53	51	52	58	55	55	55	55	50	54	60	58	51	54	62	51	48	42	43	42	40	41	44	49	55	61	52.7		
Altoona.....	Maximum	75	79	83	80	77	80	86	70	69	73	75	73	76	82	88	84	84	81	71	68	60	61	61	68	75	75	80	62	80	80	75.2		
	Minimum	52	51	52	56	48	47	55	61	57	54	62	45	50	66	66	64	54	59	56	41	43	36	39	35	40	40	46	50	55	55	51.2		
Beaver Dam.....	Maximum	78	80	86	84	80	87	90	88	83	84	78	76	85	89	93	93	89	87	75	72	68	63	67	74	78	79	83	83	81	81	81.3		
	Minimum	51	51	51	56	51	50	53	63	61	57	66	51	54	64	65	65	55	60	50	41	38	38	41	36	44	43	49	56	58	65	52.8		
Brookville.....	Maximum	81	81	81	81	81	89	74	78	81	77	77	77	77	77	81	89	91	81	85	83	68	70	59	63	63	71	77	79	81	73	80	81	77.7 ^d
	Minimum	46	46	46	46	41	38	45	54	49	49	45	45	39	56	54	53	49	54	58	32	32	30	29	27	34	32	37	42	56	52	52	42.8 ^d	
Butler.....	Maximum	79	81	86	83	82	86	90	76	80	83	76	78	82	86	92	86	88	82	69	69	71	62	65	70	78	79	83	77	82	80	79.3		
	Minimum	48	46	54	46	43	50	59	57	54	62	45	52	62	65	66	62	57	51	39	40	36	43	34	40	45	44	48	62	66	56	50.7		
Carlisle.....	Maximum	78	86	90	87	86	88	92	90	72	77	82	77	83	85	96	92	87	83	88	76	70	76	72	81	86	84	87	80	88	94	84.1		
	Minimum	58	58	53	59	58	45	51	62	61	55	66	50	48	65	60	68	47	62	57	45	46	40	38	40	35	37	41	52	62	60	52.6		
Catawissa.....	Maximum	77	78	84	84	76	82	81	79	81	76	79	76	75	78	94	80	85	81	63	74	68	70	67	63	77	78	79	79	80	84	77.6		
	Minimum	57	57	56	48	52	54	45	53	47	51	54	45	45	52	56	54	48	55	58	44	43	35	39	34	40	39	40	43	57	57	48.6		
Chambersburg.....	Maximum	73	82	85	82	78	84	88	83	69	74	83	76	84	84	92	87	86	90	76	73	68	67	67	72	78	75	81	73	83	90	79.4		
	Minimum	58	58	55	57	53	45	53	62	63	57	66	47	48	61	62	65	51	63	57	43	48	35	36	36	35	46	42	52	56	55	52.2		
Claysville.....	Maximum	82	85	91	88	88	93	95	87	85	87	85	82	87	94	95	96	95	92	76	74	67	67	70	80	83	85	89	85	88	82	85.1		
	Minimum	47	46	47	56	46	50	52	65	64	57	55	47	54	59	64	65	52	63	37	33	32	35	33	40	42	47	54	62	68	68	51.2		
Clearfield.....	Maximum	71	81	86	82	79	82	84	77	78	78	82	75	79	78	93	79	78	86	72	74	68	68	67	70	74	74	78	80	83	83	77.5		
	Minimum	62	62	62	59	52	49	54	63	58	54	65	48	44	63	61	60	54	59	60	51	44	39	37	36	42	36	42	56	60	61	53.2		
Corry.....	Maximum	75	76	84	75	79	86	86	81	86	80	73	76	80	83	89	82	86	82	71	68	57	60	60	74	77	82	83	78	79	80	77.6		
	Minimum	48	51	46	48	43	44	48	61	53	54	63	43	51	58	61	61	55	55	48	39	39	36	43	30	49	43	48	56	58	65	49.9		
Emporium.....	Maximum	74	79	83	75	71	84	83	77	80	76	76	71	71	79	80	88	78	82	74	67	69	60	61	63	67	74	77	65	78	80	74.8		
	Minimum	54	56	55	54	42	45	44	54	45	52	51	44	48	48	55	56	49	55	52	41	40	36	39	34	35	36	39	45	60	60	47.5		
Erie.....	Maximum	70	76	84	71	72	82	84	79	77	80	73	72	77	78	83	72	82	78	66	68	57	58	59	71	78	77	72	77	80	80	74.4		
	Minimum	55	58	61	60	55	59	60	66	63	61	60	53	62	63	71	64	63	66	55	49	44	48	47	43	59	56	60	61	61	68	58.4		
Franklin.....	Maximum	79	82	85	80	84	87	91	78	81	83	76	79	85	87	93	85	88	80	70	69	61	63	62	72	77	79	81	77	80	82	79.2		
	Minimum	49	50	47	49	43	44	47	51	55	53	55	47	48	62	61	62	55	56	47	38	37	36	37	32	33	39	40	45	52	57	47.6		
Freeland.....	Maximum	68	73	79	72	69	75	77	76	74	75	72	65	69	72	77	78	79	73	68	68	63	62	60	62	70	74	62	72	79	71	71.4		
	Minimum	57	55	57	58	49	52	55	60	52	53	60	44	50	56	59	47	53	60	52	45	43	40	40	38	47	46	51	48	51	57	51.2		
Gettysburg.....	Maximum	77	83	85	85	81	84	90	80	68	77	84	79	84	84	94	89	81	89	84	74	66	70	67	70	77	76	81	72	83	87	80.0		
	Minimum	61	58	55	60	55	48	53	63	60	58	64	51	49	64	65	67	50	66	56	47	48	40	42	42	39	40	45	54	60	60	54.0		
Greensburg.....	Maximum	78	81	85	82	83	87	89	83	80	85	79	76	81	88	91	86	89	90	82	72	62	64	63	74	80	80	82	77	84	83	80.5		
	Minimum	54	50	49	60	52	58	59	62	60	60	65	49	54	64	66	63	53	65	57	42	42	37	39	34	42	42	46	58	63	65	53.7		
Grove City.....	Maximum	72	75	79	78	75	76	81	81	73	73	68	69	76	81	84	83	76	74	68	68	60	62	66	70	76	76	79	77	79	80	74.6		
	Minimum	49	47	47	53	50	49	52	60	57	57	64	46	56	59	66	60	52	62	47	40	37	35	32	41	40	39	39	55	61	65	50.6		
Hamburg.....	Maximum	82	81	82	84	83	82	84	78	79	81	82	76	84	86	93	92	84	86	74	71	70	66	64	70	76	75	78	76	80	85	79.5		
	Minimum	51	52	55	62	48	47	51	52	58	52	59	49	45	52	55	59	46	49	50	45	47	40	41	42	38	35	40	55	57	58	49.7		
Harrisburg.....	Maximum	69	83	81	80	76	81	89	70	73	75	81	74	81	78	93	79	79	79	67	69	71	67	67	66	69	74	78	66	80	85	76.5		
	Minimum	62	62	60	64	58	54	58	66	62	58	62	56	63	67	64	58	55	67	57	50	54	47	47	46	44	49	48	57	61	64	57.0		
Hawley.....	Maximum	77	69	84	79	78	82	82	81	79	79	78	71	70	75	86	81	80	76	74	77	65	68	63	66	75	78	77	68	73	80	75.7		
	Minimum	61	59	51	53	45	41	45	57	41	46	60	42	42	58	51	47	41	50	56	42	40	33	35	32	33	35	39	51	53	54	46.4		
Huntingdon.....	Maximum	73	82	86	83	79	83	91	71	74	75	83	75	81	87	94	86	88	89	71	73	66	66	66	71	78	78	80	67	83	86	78.8		
	Minimum	52	57	56	54	49	48	49	61	61	56	58	45	47	62	58	63	54	58	60	40	41	37	34	35	38	36	41	47	56	58	50.4		
Indiana.....	Maximum	70	82	87	85	86	90	90	70	71	89	79	82	85	87	93	88	87	90	78	74	64	66	68	77	80	81	84	70	84	83	80.8		
	Minimum	55	52	51	56	51	49	54	63	60	59	65	62	61	65	63	64	56	62	60	43	36	38	38	37	38	39	44	39	59	58	52.6		
Lancaster.....	Maximum	79	85	85	85	78	76	85	71	69	72	80	88	80	83	96	92	80	86	85	75	74	73	74	77	68	73	65	73	80	80	78.8		
	Minimum	59	59	55	59	48	46	48	58	56	50	62	45	45	58	55	61	49	50	59	45	47	39	38	36	35	37	39	52	55	60	50.2		
Lawrenceville.....	Maximum	69	78	85	79	78	85	87	81	83	74	77	73	72	79	90	82	86	78	72	64	67	64	67	71	80	82	79	70	74	85	77.4		
	Minimum	53	60	56	52	48	43	48	61	42	51	63	43	47	49	54	54	47	54	54	40	37	35	37	32	37	36	40	46	60	61	48.0		
Lebanon.....	Maximum	71	83	85	83	81</																												

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CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII. OCTOBER, 1927. No. 10

GENERAL SUMMARY.

October was an unusual month with the temperature and precipitation both above the normal. The temperature excess was moderate, but fairly uniform, and averaged 3.2°. The rainfall excess was large excepting in a few northwestern counties where there was a slight deficiency. A fairly large number of stations recorded rainfalls more than twice as great as their normals. These rains caused floods in a few streams, with some damage, and filled other streams bank full. In South Scranton the flood waters filled basements, and covered the first floors of a good many homes, while in Kirby Park, Wilkes-Barre, the damage was estimated at \$10,000. From 2.0 to 3.0 inches of snow fell in Somerset County on the 18th. Despite the heavy rainfall, there was the usual amount of fair and fine October weather with the sunshine above the normal in most sections. The heavy rains made the fields muddy, and caused serious delays in finishing up of fall work. Plowing was difficult, or impossible, in most sections while potatoes that remained in the ground sustained heavy losses by rotting. Most of the wheat was sown before the heavy rains began, and made an excellent growth, while the mild temperatures, in conjunction with ample moisture, helped to prolong good pasturage beyond the usual time. The rains did not interfere with the gathering of the winter apples, and a larger quantity than anticipated was stored in most sections. Many kinds of late truck were good nearly through the month, and an unusually fine crop of celery was matured.

TEMPERATURE.

The mean temperature for the State, as determined from reports of 83 stations, was 55.6°, or 3.2° above the normal for October. The highest monthly mean was 60.5°, at Philadelphia-Germantown, while the lowest, 49.0°, was reported from Gouldsboro. The highest temperature recorded during the month was 99°, at Carlisle on the 1st, a new State record for October, and the lowest was 21°, at Gouldsboro, on the 30th. The greatest daily range of temperature was 54°, at Bradford on the 25th, and also at Clearfield on the 27th.

PRECIPITATION.

The average precipitation (from rain and melted snow) for the State, as deduced from observations at 136 well-distributed stations, was 6.40 inches. This is 3.22 inches in excess of the monthly normal and a new record for October. The greatest monthly amount reported was 11.91 inches at Paupack, also a new State record for the month. The least was 1.58 inches, at Sharon. The greatest amount recorded in 24 consecutive hours was 3.84 inches, at Pottsville on the 3d-4th. Snowfall for the State averaged 0.1 inch, which coincides with the October normal. The greatest monthly snowfall was 3.0 inches, at Somerset, which amount fell on the 18th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour			
				8 a m.	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	207.0	343.1	60	73	63	72	10,886	14.6	48	se.	12
Harrisburg.....	204.6	345.2	59	82	62	72	4,552	6.1	35	se.	12
Philadelphia.....	234.4	345.2	68	77	62	69	6,677	9.0	40	n.	4
Pittsburgh.....	205.4	344.1	60	83	57	64	7,358	9.9	45	se.	12
Reading.....	217.4	345.2	63	83	60	73	4,069	5.5	26	s.	12
Scranton.....	148.2	344.1	43	92	72	80	4,868	6.5	30	se.	12

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14	10
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17	15
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11	8
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7	6
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9	8
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11	9
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6	5
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12	9
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9	6
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13	12
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10	6
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11	8
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10	9
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11	9
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8	7
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10	9
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17	14
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7	5
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8	5
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11	7
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13	11
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9	7
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15	13
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11	9
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9	8
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6	8
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11	13
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8	10
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14	17
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7	8
1922.....	54.8	94	12	2.51	5.60	0.65	18	6	7	7
1923.....	51.0	87	12	2.38	6.01	0.90	15	8	8	8
1924.....	52.9	87	14	0.28	2.30	0.00	21	7	3	2
1925.....	46.1	83	9	4.83	8.90	2.02	6	8	17	15
1926.....	51.9	90	16	4.51	7.98	2.56	10	9	12	14
1927.....	55.6	99	21	6.40	11.91	1.58	17	5	9	9

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date		Lowest stage	Date		Flood stage
Port Jervis.....	Delaware.....	4.9	12.2	20	1.8	3	18		
Phillipsburg.....	Delaware.....	6.2	19.0	20	1.0	1	22		
Mauch Chunk.....	Lehigh.....	-0.2	6.6	13	-2.9	1	12		
Wilkes-Barre.....	Susquehanna.....	7.4	25.6	21	1.8	3	20		
Williamsport.....	Susquehanna.....	2.4	8.8	21	0.1	2	20		
Harrisburg.....	Susquehanna.....	5.8	14.5	21	3.2	1	17		
Greensboro.....	Allegheny.....	13.2	25.6	20	10.8	31	22		
West Newton.....	Youghiogheny.....	2.3	16.0	20	0.3	1	20		
Lock No. 4.....	Monongahela.....	14.6	25.3	21	12.5	1	21		
Pittsburgh.....	Ohio.....	11.7	22.2	21	9.7	1	25		
Beaver Dam.....	Ohio.....	9.0	23.3	21	7.0	29	30		

Climatological Data for October, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	15	56.5		92	2	36	16	37	6.84	+3.43	2.00	0	10	22	4	5	s.	John A. Frick.
Altoona	Blair	1,615	40	55.0	+3.1	88	1	34	11	38	7.38	+4.89	2.27	0	11	20	8	3	w.	Lewis E. Biller.
Arendtsville	Adams	700	...	57.3 ^a		93 ^a	2	33 ^a	16	39 ^a	7.95		2.30	0	11	19	5	7	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	43	57.2	+1.7	89	2	37	16	30	5.66	+2.43	2.02	0	10	21	3	7	sw.	Lehigh University.
Bustleton	Philadelphia	125	8	58.0		91	1	32	31	39	7.64		1.68	0	12	19	2	10	sw.	Experiment Station.
Carlisle	Cumberland	467	60	59.0	+6.7	99	1	32	26	44	8.51	+5.25	2.80	0	10	20	3	8	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	30	54.8	+1.2	92	2	31	16	40	7.19	+4.09	2.23	0	12	19	5	7	...	H. H. Yetter.
Center Hall	Center	1,272	31	54.6	+3.2	88	2	30	24	42	5.91	+2.86	1.85	0	9	20	3	8	...	S. W. Smith.
Chambersburg	Franklin	580	27	56.4	+3.6	91	1	32	15	39	7.64	+4.44	2.09	0	10	18	5	8	s.	William B. Spear.
Clearfield	Clearfield	1,120	17	55.8	+2.8	95	1	31	11	54	5.43	+2.11	1.63	0	9	16	5	10	w.	E. W. Hess.
Coatesville	Chester	380	39	55.0	+0.7	88	1	29	16	38	6.40	+2.88	2.16	0	10	19	5	7	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	55.7	+2.7	90	2	33	16	37	8.00	+4.99	2.71	0	10	17	4	10	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	39	52.0	+2.0	87	2	27	26	45	5.96	+2.66	2.43	0	10	18	3	10	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	56.0	+0.9	88	2	34	16	37	5.22	+2.05	1.49	0	10	18	5	8	s.	Ira J. Keath.
Freeland	Luzerne	1,970	12	51.8		86	2	29	30	26	10.65		3.15	0	11	14	7	10	nw.	Theo. Reichmann.
George School	Bucks	190	20	57.3	+2.4	90	1	31	31	35	7.87	+4.62	1.81	0	9	22	2	7	w.	Prof. N. W. Swayne.
Gettysburg	Adams	553	53	57.2	+5.0	90	1	34	16	39	9.34	+6.14	2.98	0	10	19	6	6	s.	Dr. Henry Stewart.
Gordon	Schuylkill	840	23	53.0	+2.3	87	2	28	30	44	9.57	+5.19	2.74	0	10	16	4	11	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	3	49.0		88	2	21	30	46	9.14	+5.69	2.60	0	8	13	5	13	w.	Gustav Holtz.
Hamburg	Berks	535	34	55.0	+1.1	89	2	31	16	38	6.29	+2.23	2.18	0	7	19	5	7	w.	State Sanatorium.
Hanover	York	600	23	57.8	+1.7	86	1	37	15	35	7.51	+5.05	2.18	0	10	19	6	6	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	57	57.4	+2.6	90	1	38	26	33	7.78	+4.83	2.54	0	11	15	7	9	w.	U. S. Weather Bureau.
Hawley	Wayne	900	8	52.2		91	2	26	30	44	9.36		2.82	0	10	15	8	8	nw.	J. S. Pennell.
Holtwood	Lancaster	200	12	59.0		89	2	41	16	27	5.23	+2.95	1.92	0	9	18	6	7	...	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	56.2	+3.7	92	1	32	26	46	6.09	+3.08	1.79	0	9	17	4	10	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	1	57.2	+3.9	94	1	31	16	47	7.03	+4.17	2.78	0	11	19	2	10	...	John S. Madore.
Lancaster	Lancaster	255	39	55.4	+2.0	90	1	30	16	45	5.66	+2.58	1.65	0	9	21	4	6	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	29	53.6	+3.1	94	2	29	11	49	5.48	+2.72	2.10	0	7	16	7	8	...	C. P. Darling.
Lebanon	Lebanon	469	86	56.3	+3.1	90	1	35	16	42	8.17	+4.65	2.55	0	10	20	1	10	se.	S. B. Benzing.
Lewisburg	Union	450	52	55.6	+5.4	93	2	33	24	39	7.59	+4.35	1.85	0	10	15	5	11	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	37	56.0	+2.7	93	2	35	11	34	4.76	+1.51	1.56	0	10	16	3	12	nw.	Joseph Beaver.
Lykens	Dauphin	680	12	55.2	+1.8	90	1	30	15	43	9.25	+6.02	2.40	0	11	18	4	9	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	36	54.3	+2.0	88	2	29	30	46	9.03	+5.27	3.34	0	10	19	0	12	n.	R. K. Wintermute.
Mifflintown	Juniata	445	23	55.5	+3.1	90	1	34	16	44	8.23	+4.99	2.44	0	10	18	6	7	w.	Wellington Smith.
Montrose	Susquehanna	1,720	24	53.7	+4.7	88	2	32	14	35	9.10	+5.58	2.43	0	8	13	8	10	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	52.7	+5.3	89	2	29	15	36	8.01	+2.99	2.16	0	10	19	4	8	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	15	49.1	-1.5	89	1	29	5	45	7.61	+4.25	2.30	0	8	18	7	6	...	A. H. Boatman.
Narberth	Montgomery	300	8	57.0		88	1	35	31	35	6.83		1.87	0	10	16	6	9	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	38	55.8	+1.8	89	1	29	31	40	7.53		2.65	0	9	23	3	5	n.	North Springfield Water Co.
Palmerton	Carbon	398	10	54.4		92	2	30	11	41	6.55		1.71	0	9	15	7	9	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	60.4	+2.6	89	1	45	15	24	5.71	+2.61	1.73	0	10	18	3	10	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	2	60.5		90	1	42	31	27	6.01		1.37	0	10	19	5	7	...	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	59.6		91	1	38	31	32	4.98		1.16	0	9				...	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	60.1		90	1	45	22	31	5.97		1.44	0	10	14	10	7	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	16	57.4	+3.0	90	1	30	26	43	7.95	+5.15	2.42	0	8	20	7	4	s.	North Springfield Water Co.
Quakertown	Bucks	496	42	55.0	+2.9	90	2	29	31	44	7.71	+4.34	2.02	0	10	18	4	9	nw.	John E. Benner.
Reading	Berks	325	57	58.2	+3.5	89	2	38	16	31	4.61	+1.35	1.28	0	11	17	6	8	n.	U. S. Weather Bureau.
Scranton	Lackawanna	805	32	55.1	+3.2	91	2	33	30	34	9.16	+6.25	2.89	0	11	11	7	13	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	56.0	+3.4	90	2	34	11	39	6.70	+3.16	2.76	0	9	15	5	11	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	31			37	26				5.85	+2.51	1.31	0	9	12	9	10	sw.	W. S. Guiles.
State College	Center	1,217	42	54.6	+3.6	89	2	33	24	42	6.33	+3.44	2.19	0	10	17	9	5	sw.	C. A. Kern.
Stroudsburg	Monroe	500	...	53.2		91	2	27	31	45	7.48		2.30	0	10	18	5	8	nw.	State Normal School.
Towanda	Bradford	754	32	53.7	+2.9	92	2	31	11	43	6.70	+3.60	2.32	0	9	15	5	11	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	50.6	+1.5	91	2	26	11	43	4.70	+1.50	2.02	0	8	20	5	6	sw.	George W. Hill.
West Chester	Chester	455	89	56.6 ^d	+2.1	87 ^d	1	37 ^d	27	30 ^d	6.29	+2.55	1.75	0	9	21	6	4	w.	Arthur M. Hay.
Williamsport	Lycoming	521	40	54.2	+1.6	93	2	32	30	37	8.32	+4.95	2.82	0	8	15	4	12	ne.	Miss Veronica E. April.
York	York	400	39	56.8	+3.2	94	1	32	15	45	9.12	+6.24	3.16	0	10	20	4	7	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	34	56.6	+1.1	89	2	32	15	44	2.67	+0.16	1.03	0	8	14	9	8	sw.	U. S. Engineer.
Bradford	McKean	1,460	12			26 ¹	17 ¹	54 ¹						0					w.	Bradford Electric Co.
Brookville	Jefferson	1,173	36																...	John Fawcett.
Butler	Butler	1,152	2	54.2 ^a		90 ^a	2	27 ^a	17	45 ^a	3.52		1.64	0	6	16	2	13	sw.	Foraker Ferrell.
Claysville	Washington	1,150	23	58.2	+4.5	96	2	27	17	51	5.28	+1.96	1.30	0	8	21	2	8	s.	J. L. Melvin.
Corry	Erie	1,430	15	54.2	+7.4	91	2	27	9	47	2.70	-1.17	0.82	0	15	18	6	7	...	Nevin R. Dickson.
Derry	Westmoreland	1,172	30	57.0	+2.6	92	2	31	25	47										

Daily Precipitation for October, 1927

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh			*	1.70					.11	.18	.18								.83	2.00	.84	.99	.01									6.84	
Altoona	Juniata		.70	.26					.08				1.95	.32			.02	.11	1.85	1.51	.95											.03	6.84	
Ansonia|||	W. Br. Susq.			.92					.07				T	1.76		T			.38	.81	1.35	.08	T										6.87	
Arendtsville|||	Lower Susq.			2.30				.01	.03	.03	.05		.01	2.25				.28	.97	1.42	.60												7.95	
Baker's Summit	Juniata		.60	.11					.05				1.80	.37				.20	2.05	.76	.44												6.88	
Bethlehem	Lehigh		.02	.87					.10	.43			.01	2.01				.14	1.35	.48	.25												6.66	
Bloersville|||	Lower Susq.		2.95						.12	.18			1.35					1.18	1.22	1.45	.10												8.55	
Bustleton	Lower Del.		.13	1.03					1.07	.63			.01	1.16				.29	1.68	1.24	.33	.01		.06									7.64	
Carlisle	Lower Susq.		.56	2.24					.16	.06			.50	1.58				.84	1.02	1.42	.13												8.51	
Catawissa|||	N. Br. Susq.		2.02	.21				.01	.20				1.20	.10			.22	.82	.94	1.19	.25	.03											7.19	
Center Hall	Susquehanna		.16	.12									1.69					.12	1.42	1.85	.36	.05											5.91	
Chambersburg	Potomac		.73	1.60					.06	.07			.40	.97				.63	2.09	1.05	.04												7.64	
Clearfield	W. Br. Susq.		.55	1.08				.03	.40				.90	.45		T	T	.96	.70	.36	T												5.43	
Coatesville	Lower Del.		.22	.87					.35	.77			.13	2.03				.14	.35	1.34	.20												6.40	
Colebrook	Lower Susq.		1.16	1.55					.12	.08			.53	2.02				.60	.75	1.04	.15												8.00	
Conshohocken	Schuylkill		T	1.63					.47	.83			.03	1.90				T	1.07	1.55	.30												7.78	
Cresson|||	Juniata		.80						.21				1.70	.07			1.60	.83	1.50	.48													7.19	
Doylestown	Lower Del.		.26	.99					.23	.82			.01	1.57				.13	1.66	1.47	.37	T											7.51	
Driftwood|||	W. Br. Susq.			1.80					.23				2.32					.50	.90	.36			.37										6.48	
Emporium	do.		2.43				.15	.05					1.62	.21	.04	T		.44	.20	.61	.21	T		T									5.96	
Ephrata	Lower Susq.		.71	.64					.14	.24			.04	1.32				.03	.39	1.49	.22												5.22	
Forest City	N. Br. Susq.			2.01					.33				T	1.45				.59	1.40	2.15	.41												8.34	
Freeland|||	Lehigh		T	2.41				T	.26		.13		3.15	.04				.45	1.21	1.40	1.02	.51	.07		T								10.65	
George School	Lower Del.		.11	1.70					.41	.79			T	1.22				.60	1.61	1.00	.43	T		T									7.87	
Gettysburg	Potomac			.72	2.16				.09	.10			.21	2.77				.46	1.48	1.31	.04												9.34	
Girardville|||	Susquehanna		2.54	.56					.16	.15			.79	1.81			.08	1.40	.71	1.20	.51	.09	.03	T									10.03	
Gordon	Lower Susq.		.70	2.00					.25	.14			.09	2.74				1.02	.95	1.30	.38												9.57	
Gouldsboro|||	Lehigh			2.60					.42		.04		.21					.20	1.60	1.68	.42												9.14	
Graterford	Schuylkill			.08	1.67				.28	.48			.19					.03	1.26	1.65	.31	T		.02									7.72	
Hamburg	Schuylkill		2.18						.18				1.40					.40	.42	1.38	.33												6.29	
Hamlin	Upper Del.		2.00					.40	.10				1.75	.05				1.10	2.00	.85	.30												8.55	
Hanover	Lower Susq.		.30	1.85					.20	.14			.11	2.07				.60	1.19	1.34	.11												7.91	
Harrisburg***	do.		2.44	.10				.05	.14	.04			.97	.10		T		1.04	1.08	.70	.12												7.78	
Harrisburg East	do.			2.40					.24				.08	1.96				.91	1.16	1.09	.14												8.18	
Harrisburg North	do.			2.45					.17	.06			2.15					.65	.98	1.06	.42												7.94	
Hawley|||	Upper Del.			2.82			.01		.41	T			1.78	.03				.39	.96	2.32	.31	.33	T										9.86	
Holtwood|||	Lower Susq.			1.92					.19	.33	.12		T	1.23				T	.31	.80	.25	.08											5.23	
Huntingdon	Juniata		1.09	.70				T	.14				1.40	T				.24	1.30	1.09	.08	T											6.09	
Hyndman	Potomac			.70	.19			T	T	.01			1.75	.12	.05		.05	.32	2.78	.67	.39												7.03	
Lancaster	Lower Susq.		.65	.90					.16	.33			1.65					.04	.52	1.25	.16												5.66	
Lansford|||	Lehigh			3.53					.16		.05		2.35					.52	.84	1.42	.59	.19	.02										9.67	
Lawrenceville	N. Br. Susq.		.20	.63				T					1.0	1.38					.62	2.10	.45	T											5.48	
Lebanon	Lower Susq.		2.55					.42	.04	.03			2.45				.40	.58	.83	.69	.18												8.17	
Lewisburg	W. Br. Susq.		.41	1.44				.01	.26				.66	1.30				.83	.94	1.49	.25	T											7.59	
Lloyd	do.														T				.09	1.10	.86	.14	.03										4.76	
Lock Haven	do.		.30	.46				.22					.44	1.12	T			.09	1.10	.86	.14	.03											9.25	
Lykens	Susquehanna			.36	2.04			.08	.10	.16			.70	2.10				.88	.89	1.62	.32	T		T									9.03	
Mauch Chunk	Lehigh		2.17	1.17				.10		.03			.22	1.94				.36	1.38	1.32	.34													9.03
Mifflintown	Juniata			.98	.78				.17				1.31	1.13				.59	1.29	1.86	.07												.05	8.23
Montrose	N. Br. Susq.			10.00					.15				1.80					.62	1.58	2.43	.42												9.10	
Morris Run	N. Br. Susq.			.40	.94				.15				1.90	.35	.03			.04	.64	2.96	.70	.09											8.20	
Mount Pocono	Upper Del.		.90	2.00			.30						.16	2.00				.22	1.10	1.00	.29	.04											8.01	
Muncy Valley	W. Br. Susq.			* 1.62			1.75																											

Daily Precipitation for October, 1927—Continued from page 48

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.....				.29				.20				.06	.97	.09				.22	.55	.29												2.67
Beaver Falls|||	Beaver.....				.36			T.	.25				.08	.78	.01				.14	.45	.21	.01									T.		2.29
Bradford.....	Allegheny.....				\$								1.05		.05				.11	.33	.98	.10											\$
Brookville.....	do.....																		*	.75	.25												3.52
Butler.....	Ohio.....				.84								1.64	.04					*	.75	.25												5.28
Claysville.....	do.....				.85			.03	.28				1.30	.20					1.25	1.06	.31												
Cloeti.....	Allegheny.....			1.10				.50	.06				.78	T.	T.		T.	.26	1.10	.62	.30												4.72
Clymer††.....	Conemaugh.....			.62	.40			.48					.88	.33	T.		*		1.02	1.36	.90												5.99
Confluence|||	Youghiogheny.....			1.04				.07					.10	1.05					.70	1.35	1.23	.08											5.62
Coraopolis|||	Ohio.....				1.35			.29					.02	1.18	.03			T.	.32	.99	.55	.01											4.74
Corry.....	Allegheny.....			.19	.36	.26		.27			.01		.82	.10	.22	.01	.01		.02	.08	.29	.05		.01									2.70
Coudersport.....	do.....			1.82				.24					1.90					.31	.08	.86		.24											5.45
Creekside.....	Allegheny.....			.87				.50					*	1.20				*	*	3.09													5.66
Derry.....	Conemaugh.....			.73	.23			.41					1.15	.08			T.		1.42	1.41	.82												6.25
Donora|||	Monongahela.....			.05	.81			.35					.13	1.15	.02			.01	1.10	1.28	1.17										T.		6.07
Ebensburg.....	Conemaugh.....			.90	.40			.19					1.00	.38					2.01	1.30	.45												6.63
Elk Lick.....	Youghiogheny.....							.15					1.65	.10					1.50	1.30	1.30												6.00
Falls Creek.....	Allegheny.....			.88				.25					.86		.05				.54	.90	.48												3.96
Franklin|||	Allegheny.....			.61				.02	.40				.05	.95	.02	.03			.05	.10	.29												2.52
Freeport|||	Allegheny.....			.34				.42					.01	1.03	.04			.01	.46	.89	.70	T.											3.90
Greensburg.....	Youghiogheny.....			1.20	.07			.07	.45				1.52	.13			.03		1.37	1.19	.93												6.96
Greenville.....	Beaver.....			.18	.23	.28		.19	.02				.92	.02	.06				.06	.15	.05												2.16
Grove City.....	Beaver.....			.61	.15			.10					1.30	.05	.02				.10	.24	.19												2.76
Herrs Isl. Dam|||	Ohio.....			.49				.37					.04	1.25	.03				.37	1.21	.59	T.											4.35
Indiana.....	Conemaugh.....							.02	.39				1.36	.05	.01		T.		1.19	.78	.20												4.60
Ingram.....	Ohio.....			.60				T.	.25				.83	.06					1.60	.80	.25												4.50
Irwin.....	Youghiogheny.....			.66	.05			.12					1.52	.06					1.81	1.53	1.30	.69										.08	7.03
Johnstown.....	Conemaugh.....			1.50	.05								1.26	.07			T.		.88	2.37	1.89	.28										.06	8.85
Kregar|||	Youghiogheny.....			1.67				.37											.01	.02	.20												2.58
Linesville|||	Beaver.....			.32		.48		.07			.10				.83	.42	.13			.01	.02	.20											5.82
Lock No. 4|||	Monongahela.....				.83				.35				.04	1.18	.04				.89	1.50	.97	.02											7.00
Lycippus.....	Conemaugh.....			1.04	.17								.88	.17			T.		2.19	1.45	1.10												5.13
Mount Lebanon.....	Ohio.....			.50				.04	.47				1.19	.16	T.		T.		1.48	1.06	.23												2.34
New Castle|||	Beaver.....			.01		.64	.01	.02	.29				.26	.53		.02	T.			.14	.27	.15											.01
New Castle|||	Monongahela.....			.57	.12			.18					1.23	.25					1.65	.79	.45												5.25
Newell.....	do.....				.70			.18					.10	1.42	T.	T.	T.		1.52	.24	.45	T.											3.21
Parkers Landing|||	Allegheny.....																																2.31
Pennline|||††	Beaver.....			.20		.39							.66	.70	.17				.05	.04	.10												4.09
Pittsburgh***	Ohio.....			.45				.22	.09				1.18	.01	T.		T.	T.	1.66	.37	.11												5.02
Ridgway.....	Allegheny.....			.65	.25			.26	.15				1.35	.24	.04				.23	.52	.53	.80											2.14
Saegertown.....	Allegheny.....			.40				.30					.70		.45				.08	.21													6.31
Saegertown.....	Conemaugh.....			.99				.37					.08	1.22	.02				.75	1.44	1.42	.02											1.58
Saltsburg|||	Beaver.....			.05		.38		.10					.03	.83	T.				.02	.10	.07												6.22
Sharon|||	do.....																																4.53
Somerset.....	Youghiogheny.....			.78	.18			.20					1.05	.32					2.05	.90	.74												6.48
Springdale|||	Allegheny.....			.30				.59					.01	1.15	.03	.01		.01	.44	1.11	.87	.01										.04	7.25
Uniontown.....	Monongahela.....			.84	.01			.03	.42				.68	.11					2.10	1.29	.96												4.68
Unity Reservoir††	Youghiogheny.....			1.16	.10			.10	.42				1.12	.18			.06		1.52	1.35	1.24												4.68
Vandergrift†	Conemaugh.....			.45				.28	.23				.91	.02				.09	1.55	.62	.53												3.68
Vandergrift†	Allegheny.....			.45	.45	.21		.26	.10				1.24		.11				.06	.08	.64	.08											4.67
Warren.....	do.....																.01	.01	1.99	.46	.18												2.34
Washington†	Ohio.....			.68				.18	.08				1.00	.08						.05	.17												5.35
Westford|||	Beaver.....			.48									1.34	.22	.08			T.	.60	1.10	.98	.15											3.14
West Newton|||	Youghiogheny.....			.93				.28					.04	1.25	.02																		.01
Zellenople|||	Ohio.....			.59				.26					.07	1.32	.05				.12	.41	.31												
Lake Drainage.																																	
Erie***	Lake Erie.....			.69		.31	.14			.35		.01		.55	.15	.34			.08	.01	.55	.16	.01										3.85
West Bingham.....	Genesee.....																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. †† Post Office addresses are as follows: of Blosserville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg.
† Mdt. to mdt.

Daily Temperatures for October, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	89	92	82	77	74	78	81	59	55	65	68	73	69	61	61	65	55	50	52	58	60	63	61	66	65	70	75	76	69	59	63	67.5
	Minimum	61	63	65	66	48	46	50	56	45	39	38	42	54	42	38	36	37	45	45	48	51	43	42	37	37	39	39	42	39	37	45.5	
Altoona.....	Maximum	88	87	79	67	78	81	78	69	62	60	68	64	55	50	58	60	50	44	46	57	54	65	69	67	66	74	78	74	62	63	66.2	
	Minimum	58	55	56	58	41	45	53	48	36	38	34	55	40	41	36	34	40	36	41	46	44	40	51	39	36	36	43	46	50	38	45	43.8
Beaver Dam.....	Maximum	85	89	85	69	76	84	81	69	66	64	77	74	61	55	62	60	57	52	51	66	63	71	73	70	69	74	75	80	75	72	77	70.4
	Minimum	58	59	55	58	41	44	57	49	36	40	39	54	43	43	32	36	34	40	45	47	41	33	44	35	36	33	35	36	42	40	43	42.8
Brookville.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butler.....	Maximum	85	90	76	66	70	84	70	66	66	60	74	77	58	55	61	57	55	50	49	62	56	68	70	65	65	76	80	78	78	.....	67.9 ^a	
	Minimum	57	60	64	57	45	46	36	40	32	37	40	32	45	42	32	32	27	40	44	48	44	32	35	32	32	34	32	40	40	40	40	40.6 ^a
Carlisle.....	Maximum	99	96	90	78	81	86	88	80	65	71	77	70	70	61	69	72	61	47	50	62	64	71	73	75	74	76	75	80	76	70	66	73.3
	Minimum	57	58	63	60	42	44	54	54	40	38	53	44	40	35	33	44	43	44	48	50	46	40	35	40	32	34	36	46	38	40	44.7	
Catawissa.....	Maximum	88	92	79	74	78	76	81	81	60	63	69	71	64	58	63	67	48	49	52	55	57	68	61	67	66	72	74	73	75	64	64	68.0
	Minimum	55	59	61	58	42	44	53	50	41	35	33	60	44	35	35	31	41	42	43	41	44	35	37	31	32	32	35	36	40	33	35	41.7
Chambersburg.....	Maximum	91	89	80	74	74	80	80	74	65	67	71	68	66	56	61	67	58	46	50	64	60	70	67	72	66	70	69	74	68	63	66	68.6
	Minimum	57	58	59	59	42	45	52	55	45	37	41	57	41	39	32	33	44	43	45	49	49	40	42	39	41	34	34	35	42	41	41	44.2
Claysville.....	Maximum	95	96	83	78	82	89	83	69	70	68	82	69	58	54	68	61	58	61	48	68	60	73	78	74	68	82	85	82	76	82	76	73.1
	Minimum	60	60	63	57	37	48	62	49	37	38	42	54	43	41	28	36	27	38	41	43	43	35	55	32	31	31	34	36	45	51	43	43.2
Clearfield.....	Maximum	95	90	86	79	83	88	86	68	70	75	68	58	58	65	67	52	55	48	49	58	58	69	69	72	74	84	86	83	71	70	67	71.3
	Minimum	46	58	60	43	39	41	48	46	34	36	31	50	39	38	34	33	36	40	44	48	46	37	39	35	35	32	32	34	41	34	37	40.2
Coatesville.....	Maximum	88	87	81	75	73	75	79	69	56	64	69	75	68	56	59	64	55	53	50	57	59	63	62	64	62	68	72	70	72	57	64	66.6
	Minimum	62	62	59	60	46	42	52	52	43	35	33	50	52	34	38	29	43	45	48	48	39	32	36	45	40	31	34	37	47	38	31	43.3
Corry.....	Maximum	88	91	80	64	71	83	74	59	64	61	76	64	58	50	62	55	51	46	50	60	55	65	66	65	77	79	77	66	72	74	66.7	
	Minimum	59	57	62	52	40	47	52	45	27	41	31	53	43	40	40	33	39	42	46	41	34	37	28	34	30	35	41	46	34	47	41.8	
Emporium.....	Maximum	84	87	76	66	70	78	76	62	60	58	69	66	58	53	56	52	49	46	52	57	52	63	60	65	62	72	75	75	63	63	65	64.2
	Minimum	58	59	44	48	41	40	48	37	32	35	28	58	41	42	39	32	30	42	41	52	45	32	38	33	37	27	31	35	41	32	35	39.9
Erie.....	Maximum	86	87	77	65	74	80	76	57	62	53	74	65	54	52	59	54	50	51	53	60	56	64	63	63	58	74	75	76	55	62	76	64.9
	Minimum	64	67	64	55	52	58	53	46	40	44	44	51	43	43	46	48	41	43	47	50	48	44	47	41	44	47	56	55	45	42	53	49.1
Franklin.....	Maximum	88	87	75	67	73	82	75	62	65	64	75	64	52	50	60	57	52	48	51	63	51	61	69	69	70	77	79	79	69	68	78	67.0
	Minimum	58	58	56	56	38	39	44	46	32	34	32	36	43	40	33	34	30	32	43	43	45	33	34	30	32	30	31	33	35	35	37	38.8
Freeland.....	Maximum	80	86	73	69	66	70	74	68	53	56	60	67	61	50	52	58	52	46	48	49	49	54	61	56	54	64	70	62	52	53	60.7	
	Minimum	60	65	58	54	45	48	56	42	37	38	37	50	44	35	32	36	38	36	40	40	41	35	40	34	39	40	48	50	46	29	36	42.9
Gettysburg.....	Maximum	90	91	80	76	74	79	80	74	61	67	72	70	66	55	62	67	58	47	49	59	60	67	73	70	66	70	75	76	71	65	65	68.8
	Minimum	60	61	63	60	41	41	58	58	44	40	42	55	45	40	37	34	44	44	45	45	47	41	43	42	45	36	36	38	48	40	41	45.6
Greensburg.....	Maximum	90	93	82	67	78	84	77	66	64	60	79	70	59	50	65	56	55	48	46	46	52	56	69	73	69	66	77	78	75	73	66	69.1
	Minimum	61	62	61	60	42	50	59	50	40	39	42	57	43	43	38	33	40	43	46	44	44	36	54	36	35	36	39	50	43	50	45.2	
Grove City.....	Maximum	86	87	80	64	73	82	73	63	64	59	74	66	58	50	59	54	50	47	48	59	55	67	66	69	63	76	78	80	70	69	74	66.5
	Minimum	60	60	62	56	39	46	58	47	33	44	38	54	43	41	31	39	31	40	44	47	44	34	42	32	32	32	36	36	45	41	50	43.1
Hamburg.....	Maximum	88	89	84	78	75	80	75	74	72	66	67	72	70	59	60	64	62	56	53	58	56	62	64	65	64	67	70	73	70	68	64	68.5
	Minimum	56	58	62	62	43	46	43	39	38	35	34	54	50	39	34	31	40	47	47	46	44	35	33	38	32	34	35	32	33	31	41	41.6
Harrisburg.....	Maximum	90	87	77	74	72	76	79	69	60	64	70	72	64	55	60	65	50	48	52	60	58	67	64	68	62	71	70	73	66	59	65	66.7
	Minimum	62	67	67	57	50	50	58	48	45	42	44	58	47	45	41	40	44	45	46	50	49	47	44	44	44	38	41	40	50	43	46	48.1
Hawley.....	Maximum	84	91	80	73	71	78	81	73	50	56	63	68	67	59	65	56	48	51	52	52	58	60	60	60	60	72	78	78	69	58	61	65.5
	Minimum	52	56	52	61	41	39	41	39	32	28	46	51	33	29	28	44	42	45	42	43	40	35	28	30	28	34	34	43	26	26	39.0	
Huntingdon.....	Maximum	92	90	84	70	75	82	81	72	65	66	71	68	68	54	62	64	54	46	50	60	60	69	73	72	68	76	80	82	71	64	68	69.6
	Minimum	53	60	59	60	40	43	51	52	38	33	35	58	39	44	35	34	42	40	45	49	50	39	42	38	34	32	34	36	41	35	38	42.9
Indiana.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum	91	92	75	79	79	85	79	68	68	62	75	66	55	54	63	55	54	45	50	56	56	67	67	69	68	77	75	77	74	67	69	68.3
	Minimum	57	61	57	43	43	45	51	50	43	38	39	52	43	42	39	35	40	40	43	49	46	45	42	46	41	34	37	37	55	41	42	44.4
Lancaster.....	Maximum	90	88	84	81	76	78	81	74	64	70																						

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CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII.

NOVEMBER, 1927.

No. 11

GENERAL SUMMARY.

The month as a whole was unusually mild, the temperature being above the normal on 19 days. The week comprising the 4th to 10th inclusive was moderately cold, while minimum temperatures for the month were recorded at most places during a short cold period from the 19th to 21st inclusive. A temperature of 85° at Clearfield, on the 1st, establishes a new high record for November in Pennsylvania. The month closed with temperatures 20° or more above the normal. Rains were of frequent occurrence, there being an average of 14 days with 0.01 inch or more of precipitation. However, the excessive rainfall was due chiefly to three periods of heavy rains. The first of these occurred on the 3d and 4th, the second period on the 17th and 18th, and the last period from the 27th to 29th inclusive. During the second period of heavy rains there were many severe local storms. A tornado swept the Oley valley in Berks County on the 17th causing damage estimated at upwards of \$200,000. No loss of life was reported. A total rainfall of 11.36 inches at Bradford establishes a new high precipitation record for November in Pennsylvania. The rainy weather with the resultant muddy fields caused considerable delay in finishing up the fall work, and it also caused some losses of crops in the field. Some potatoes remained in the ground when the first period of heavy rains occurred, and they were nearly a total loss. Corn was kept too wet to crib and husking was consequently slow. Many farmers hauled the corn from shocks in the field and stored it near their barns to be husked at favorable times during the winter. Pasturage was fair to good at most places during the first half of the month, or until the severe freeze of the 19th to 21st, to be more exact.

TEMPERATURE.

The mean temperature for the State, as determined from reports of 84 stations, was 46.2°, or 5.2° above the November normal. The highest monthly mean was 51.2°, at Philadelphia-Germantown, and the lowest, 40.6°, was recorded at Wellsboro. The highest temperature recorded during the month was 85° at Clearfield on the 1st, and the lowest for the State was 10°, at Bradford on the 8th and also at Somerset on the 29th. The greatest daily range of temperature was 45°, at Muncy Valley on the 1st.

PRECIPITATION.

The average precipitation, from rain and melted snow, as deduced from observations at 135 well-distributed stations, was 4.95 inches; an excess of 2.14 inches as compared with the normal for the month. Monthly totals ranged from a maximum of 11.36 inches at Bradford to a minimum of 2.21 inches at Harrisburg. The greatest amount recorded in any 24 consecutive hours was 3.24 inches, at Lansford on the 17-18th.

Snowfall for the State averaged 1.8 inches, or 0.8 inch less than the monthly normal. The greatest total snowfall was 16.6 inches, at Erie, of which 7.4 inches fell in one storm on the 19th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour			
				8 a. m.	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	70.6	294.9	24	76	74	74	11,955	16.6	50	sw.	29
Harrisburg.....	81.3	299.4	27	81	69	74	5,019	7.0	42	sw.	17
Philadelphia.....	133.1	299.4	44	79	70	74	6,823	9.5	35	sw.	30
Pittsburgh.....	77.9	297.0	26	76	70	73	9,850	13.7	54	nw.	30
Reading.....	118.4	299.4	40	80	64	74	4,586	6.4	30	sw.	30
Scranton.....	60.1	297.0	20	88	80	84	5,270	7.3	44	w.	30

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14	11
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17	15
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11	8
1891.....	39.7	76	5	2.65	5.70	1.09	9	8	13	9
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16	12
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11	8
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12	9
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11	10
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13	10
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16	14
1898.....	40.0	73	2	4.03	7.34	1.44	8	9	13	11
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12	7
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15	12
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15	8
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12	8
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11	7
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11	6
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11	9
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12	8
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9	10
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10	5
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19	7
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10	11
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16	10
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12	7
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15	11
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9	6
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11	10
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11	9
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9	5
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12	7
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16	11
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18	16
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13	9
1923.....	40.7	70	10	2.83	6.84	1.55	12	5	13	10
1924.....	40.7	78	-9	1.54	3.29	0.56	12	8	10	7
1925.....	39.5	71	4	3.56	6.07	1.50	11	7	12	10
1926.....	40.4	79	-1	4.49	9.84	2.00	9	7	14	10
1927.....	46.2	85	10	4.95	11.36	2.21	7	7	16	14

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	5.8	10.1	18	3.4	1	18
Phillipsburg.....	Delaware.....	7.4	15.0	19	3.5	1	22
Mauch Chunk.....	Lehigh.....	-0.5	5.5	18	-2.0	16	12
Wilkes-Barre.....	Susquehanna.....	10.2	19.2	19	4.7	3	20
Williamsport.....	Susquehanna.....	5.5	11.6	30	1.6	2	20
Harrisburg.....	Susquehanna.....	6.5	10.1	30	4.4	3	17
Greensboro.....	Allegheny.....	14.5	19.8	28	10.9	1	22
West Newton.....	Youghiogheny.....	2.9	6.6	29	1.0	1	20
Lock No. 4.....	Monongahela.....	16.6	20.9	29	13.1	2	31
Pittsburgh.....	Ohio.....	14.6	23.1	29	10.8	2	25
Beaver Dam.....	Ohio.....	12.6	24.2	30	6.7	3	30

Climatological Data for November, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy	
Atlantic Drainage.																					
Allentown	Lehigh	254	15	45.5	.....	74	1	26	20†	39	3.88	+1.48	1.34	T.	12	18	7	5	n.	John A. Frick.
Altoona	Blair	1,615	40	44.6	+3.8	73	2	20	20	34	4.74	+2.83	2.02	3.0	14	13	4	13	w.	Lewis E. Biller.	
Arendtsville	Adams	700	.....	46.2 ^b	.....	75 ^b	2	19 ^b	20	36 ^b	3.40	.....	1.60	.....	15	.....	.....	.....	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	43	48.8	+4.8	74	2	25	20	41	5.28	+2.17	2.92	T.	12	11	9	10	sw.	Lehigh University.	
Bustleton	Philadelphia	125	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle	Cumberland	467	60	47.6	+6.9	79	1	21	20	39	3.43	+0.24	1.99	T.	9	11	6	13	s.	Prof. C. E. Miller.	
Catawissa	Columbia	520	30	45.4	+3.0	76	1	21	8†	41	3.57	+0.86	1.88	T.	12	5	10	15	.....	H. H. Yetter.
Center Hall	Center	1,272	31	45.1	+5.2	75	1	17	20	32	4.23	+2.21	2.86	3.5	7	13	7	10	.....	S. W. Smith.
Chambersburg	Franklin	580	27	46.4	+5.0	73	1†	21	20	34	4.62	+1.97	3.23	0.3	10	5	12	13	sw.	William B. Spear.	
Clearfield	Clearfield	1,120	17	46.6	+5.9	85	1	20	20	42	6.56	+3.72	0.90	4.0	16	4	12	14	nw.	E. W. Hess.	
Coatesville	Chester	880	39	46.2	+3.3	70	1†	21	14†	40	4.90	+1.71	2.86	0.8	11	8	11	11	nw.	Prof. W. T. Gordon.	
Colebrook	Lebanon	560	17	46.3	+5.3	73	1	21	20	32	2.67	+0.19	1.37	0.5	10	9	4	17	w.	Wm. A. Rorer.	
Emporium	Cameron	1,050	39	44.2	+5.0	73	2	21	8	33	6.84	+4.13	1.45	2.8	15	4	.....	.....	w.	T. B. Lloyd.
Ephrata	Lancaster	380	26	47.8	+5.4	72	1†	24	20	32	3.18	+0.79	1.25	0.2	12	8	7	15	s.	Ira J. Keath.	
Freeland	Luzerne	1,970	12	41.7	.....	67	1	16	20	29	5.71	.....	2.81	5.0	15	2	11	17	se.	Theo. Reichmann.
George School	Bucks	190	20	48.7	+6.1	76	2	24	14†	37	2.67	-0.04	1.01	0.7	11	15	7	8	n.	Prof. N. W. Swayne.	
Gettysburg	Adams	553	53	48.6	+7.3	73	1†	24	20	32	2.23	-0.44	1.20	T.	12	5	16	9	s.	Dr. Henry Stewart.	
Gordon	Schuylkill	840	23	45.2	+6.2	73	1	17	20	35	4.09	+1.30	1.30	1.0	11	10	3	17	sw.	Capt. J. G. Johnson.	
Gouldsboro	Wayne	1,875	3	40.7	.....	72	2	15	8	36	4.62	+1.79	1.60	3.0	13	4	11	15	w.	Gustav Holtz.
Hamburg	Berks	535	34	45.6	+3.4	72	1	22	19†	31	5.03	+2.17	2.60	T.	9	6	15	9	w.	State Sanatorium.	
Hanover	York	600	23	49.6	+5.4	76	1	21	20	30	2.53	+0.60	1.40	0.8	12	15	5	10	s.	Mrs. Mabel C. Wolcott.	
Harrisburg	Dauphin	361	57	47.1	+4.3	71	1	26	20	26	2.21	-0.14	1.25	0.4	12	3	10	17	nw.	U. S. Weather Bureau.	
Hawley	Wayne	900	8	43.6	.....	74	1	18	20	37	6.14	.....	2.17	.....	11	9	5	16	w.	J. S. Pennell.
Holtwood	Lancaster	200	12	48.5	.....	72	2†	28	20	29	2.31	+0.33	1.00	.....	9	7	12	11	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	39	46.6	+5.1	75	1	17	20	39	3.96	+1.70	1.73	1.5	15	5	6	19	w.	Prof. W. J. Swigart.	
Hyndman	Bedford	977	1	47.2	+5.2	78	1	16	20	39	3.19	+1.65	1.54	T.	10	6	6	18	.....	John S. Madore.
Lancaster	Lancaster	255	39	47.1	+4.0	75	2	20	20	36	3.08	+0.66	1.10	T.	10	18	5	7	s.	Supt. of Water Works.	
Lawrenceville	Tioga	1,000	29	44.3	+5.6	73	1	20	8	28	5.65	+3.51	2.07	1.0	10	8	4	18	.....	C. P. Darling.
Lebanon	Lebanon	469	86	46.1	+3.9	78	17	23	20	41	2.76	-0.13	1.52	0.3	14	12	8	10	nw.	S. B. Benzing.	
Lewisburg	Union	450	52	46.4	+7.3	74	1†	23	20	33	3.96	+1.45	1.61	1.0	14	7	6	17	s.	Prof. W. G. Owens.	
Lock Haven	Clinton	560	37	46.7	+4.8	73	2†	23	20	32	5.28	+2.84	1.33	2.5	14	6	9	15	sw.	Joseph Beaver.	
Lykens	Dauphin	680	12	47.4	+6.4	77	1	15	20	37	3.94	+0.89	1.09	T.	9	13	7	10	sw.	Susquehanna Collieries Co.	
Mauch Chunk	Carbon	600	36	44.3	+3.7	74	1	20	20	37	6.90	+3.57	2.96	0.1	13	8	9	13	nw.	R. K. Wintermute.	
Midlinton	Juniata	445	23	45.8	+5.2	73	1†	21	20	34	4.13	+2.29	1.87	0.4	12	5	1	24	w.	Wellington Smith.	
Montrose	Susquehanna	1,720	24	44.2	+7.3	69	1	14	20	32	4.43	+2.03	1.40	8.0	9	3	6	21	s.	Silas Jagger.	
Mt. Pocono	Monroe	1,658	23	41.8	+6.0	70	1	16	8	35	5.68	+2.96	1.60	2.0	12	10	7	13	nw.	Cecil J. Hoskinson.	
Muncy Valley	Sullivan	1,045	15	42.7	+3.5	74	1	18	8	45	6.25	+8.83	2.45	T.	9	8	5	16	w.	A. H. Boatman.	
Narberth	Montgomery	300	8	48.4	.....	75	2	23	20	32	5.30	.....	2.13	1.2	15	8	10	12	sw.	Charles Decker.
Neshaminy Falls II	Bucks	60	38	46.0	+4.5	76	2	21	20†	43	3.73	.....	1.00	T.	9	12	7	11	s.	North Springfield Water Co
Palmerton	Carbon	398	10	46.0	.....	74	1	25	8†	33	4.13	.....	1.95	1.4	13	6	10	14	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	56	50.9	+5.2	73	2	28	20	22	3.59	+0.53	1.50	0.3	11	5	9	16	sw.	U. S. Weather Bureau.	
Philadelphia-Ctn.	Philadelphia	113	2	51.2	.....	73	1†	27	20	26	4.07	.....	1.70	0.5	12	6	12	12	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	11	50.0	.....	74	2	27	20	29	3.77	.....	1.25	T.	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	2	50.4	.....	73	2	30	7†	26	3.29	.....	1.31	T.	9	5	10	15	sw.	Atlantic Refining Co
Phoenixville	Chester	100	16	49.2	+6.6	73	1†	23	20	34	4.99	+2.27	2.61	T.	8	16	7	7	s.	North Springfield Water Co	
Quakertown	Bucks	496	42	46.1	+5.1	77	17	21	14	36	5.86	+2.70	2.36	T.	13	8	6	16	nw.	John E. Benner.	
Reading	Berks	325	57	48.5	+6.0	73	1	25	20	29	2.83	-0.49	1.46	T.	13	5	8	17	s.	U. S. Weather Bureau.	
Scranton	Lackawanna	805	32	44.6	+4.1	73	1	26	8	30	4.26	+1.97	1.69	T.	14	2	6	22	s.	U. S. Weather Bureau.	
Selinsgrove	Snyder	455	37	46.3	+4.8	71	1†	22	20	33	4.62	+1.94	2.00	T.	12	8	10	12	nw.	Dr. George E. Fisher.	
Shawmont II	Philadelphia	51	31	49.0	.....	71	2	27	8†	29	4.38	+1.50	1.62	0.5	13	8	10	12	nw.	W. S. Guiles.
State College	Center	1,217	42	44.8	+5.1	72	2	20	20	30	5.27	+2.97	1.42	1.8	15	3	12	15	w.	C. A. Kern.	
Stroudsburg	Monroe	500	.....	43.9	.....	73	1	20	14	41	6.87	.....	1.80	T.	7	5	10	15	se.	State Normal School.
Towanda	Bradford	754	32	44.2	+4.9	73	1	22	8	29	4.66	+2.66	1.27	0.2	15	3	6	22	sw.	Hiram E. Bull, C. E.	
Wellsboro	Tioga	1,419	61	40.6	+3.1	69	2	17	8	37	6.19	+3.56	1.65	5.0	12	15	3	12	sw.	George W. Hill.	
West Chester	Chester	455	89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	ne.	Joseph W. Belt.
Williamsport	Lycoming	521	40	45.4	+4.6	74	30	24	3†	32	5.20	+2.80	2.06	T.	10	16	5	7	18	ne.	Miss Veronica E. April.
York	York	400	39	48.8	+6.3	76	11	18	20	41	2.51	-0.04	1.58	T.	10	13	8	9	e.	York Water Co.	
Ohio Drainage.																					
Beaver Dam II	Beaver	700	34	46.8	+3.5	76	15	19	20	34	6.02	+3.68	1.84	.....	17	2	4	24	sw.	U. S. Engineer.
Bradford	McKean	1,460	12	43.4	.....	74	1†	10	8	35	11.36	.....	2.88	8.8	24	8	0	22	sw.	Bradford Electric Co.
Brookville	Jefferson	1,173	36	43.6 ^b	+6.0	72 ^b	1†	18 ^b	19	41 ^b	5.85	+3.01	0.95	T.	13	2	10	18	.....	John Fawcett.
Butler	Butler	1,152	2	47.2	.....	76	1	22	20	34	7.02	.....	2.78	T.	16	9	3	18	sw.	Foraker Ferrell.
Claysville	Washington	1,150	23	47.8	+6.3	78	15	18	20	34	6.17	+4.23	2.15	T.	17	8	6	16	nw.	J. L. Melvin.	
Corry	Erie	1,430	15	43.2	+5.0	73	1	20	13	32											

Daily Precipitation for November, 1927

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh			.84	1.20	.07	.01				T.							.11	1.23				.07		.07	.03			.16	.09			3.88	
Altoona	Juniata	.03	2.00	.17	.15	.22			.08									.47					.08		.37		.05	.41	.61	.02	.08		4.74	
Ansonia	W. Br. Susq.		1.54	.94	.19	T.	T.			.02		.03	.01					.61	1.28						.14	.41	.64	.49	.44	.12		6.86		
Arendtsville	Lower Susq.										.65				.10		T.	.13	1.60			.20		.05	.08		.02	.22	.33	.02		3.40		
Baker's Summit	Juniata		1.89	.28														.71										.10	.26	.48		3.72		
Bethlehem	Lehigh	.01	2.92	.23	.11	T.		T.	.05								1.44					.08		.16		.05		.18	.04	.01		5.28		
Blosserville	Lower Susq.			.50	.35	T.			.20								2.15					.20		T.		.20		.40				4.00		
Bustleton	Lower Del.																																	
Carlisle	Lower Susq.		T.	.56	T.	T.			.05	.08								1.79	.20			.15		.22		.02	.36	T.	T.			8.43		
Catawissa	N. Br. Susq.		T.	.34	.30	.06	T.		.02								.03	1.88				.22		.22		.24	.05	.19		.02		3.57		
Center Hall	Susquehanna			.48	.36													2.86				.12		.14		.22				.05		4.23		
Chambersburg	Potomac			.39	.13		T.		.17	.01							3.23	.08				.16		.19		.02	.24					4.62		
Clearfield	W. Br. Susq.		.90	.85	.12	.74	.07	T.					.05				T.	.50	T.			1.12	.07	.07	.52		.27	.70	.88	.30	.40	6.56		
Coatesville	Lower Del.		1.10	.18	.05				.08				.03				2.83	.03						.03			.02	.52	.03			4.90		
Colebrook	Lower Susq.		.50	.10	.07	T.	T.		.05	.01							T.	1.37				.14	T.		.08		T.	T.	.33	.02	T.	2.67		
Conshohocken	Schuylkill		1.87	.35	T.				.21								T.	1.71	T.			T.					.11	.44	T.			4.69		
Cresson	Juniata	1.00	.98	.10	.05	.05	.02	.02					*	*			.55						*	.35		*	*	.55		.25		3.92		
Doylestown	Lower Del.		2.33	.44	T.			T.	.11								.03	1.41				T.		.01	.03		.04	.40		T.		4.80		
Driftwood	W. Br. Susq.			.95	.06	.19	T.	T.					.20			.03		.20	.35				.10	T.		.58		.85	.65	.10		5.16		
Emporium	do.	.06	.91	.82	.17	.15	.05	.03	T.						T.		.145	T.	T.	T.		.14	T.		.60	T.	.31	.79	.66	.29	.41	6.84		
Ephrata	Lower Susq.		1.25	.27	.06				.03	.01							.56	.38				.11		.08		.01	.41	.01				3.18		
Forest City	N. Br. Susq.		T.	.72	.09	.07	T.										.05	.13	1.33			.06		.20	.28	.07	.96	.27	.45	.06		4.74		
Freeland	Lehigh		.60	.80	.17	.03	.05		.09				T.				.18	2.81			T.		.21		.14	.11	.32	.10	.08			5.71		
George School	Lower Del.		.03	T.		.41			.18	.03							T.	.24	1.01			.02			.04	.15		.03	.53			2.67		
Gettysburg	Potomac		.29	.16	.03			.09	.04								.98	.22				.14			.04			.02	.20	.04	T.	2.23		
Girardville	Susquehanna		T.	.30	.34	.19	.04	T.	.06								.03	1.70	.44			.34		.19		.15	.16	.09	.02	.08		4.13		
Gordon	Lower Susq.		.25	.45	.27	T.		.07									T.	1.30	.99			.31		.25		.13	.14	.03				4.09		
Gouldsboro	Lehigh		.80	.69	.18				.06							.02		.46	1.60				.06		.12	.20	.08	.15	.20			4.62		
Graterford	Schuylkill		2.02	.11	.03			.11	.03									.34	1.86				.06		*	*	.04	.17				4.77		
Hamburg	Schuylkill		1.40	.20	.10				.04								.10	2.60				.22		.15				.22				5.03		
Hamlin	Upper Del.		1.45	.66	.10				.05		.05							1.70	.45	.10					.35			.47	.25		.25	5.88		
Hanover	Lower Susq.		.16	.42	.02			.08	.02									.87	.53			.12			.04			.02	.22	.03		2.53		
Harrisburg	do.		.01	.29	.03	.03	T.	T.	.04	T.							T.	1.25				.13	T.		.12		T.	.02	.23	.02	.04	2.21		
Harrisburg East	do.		.13	.28	.04	T.			.12					.01			T.	.93	.34			.21		.10		.01	.30	.05				2.52		
Harrisburg North	do.		.04	.65					.10								.04	.02	1.32				.19		.11		.02	.19	.18			2.86		
Hawley	Upper Del.		.93	1.43		.26			.13		.22						T.	.21				.01		.11		.26	.18	.44				6.14		
Holtwood	Lower Susq.		.65	.15	T.				.07								.02	1.00						.05			.28	.07	T.			2.31		
Huntingdon	Juniata		1.73	.22	.23	T.	.05	.09	.06								.40	.02			.14		.02		.30		.03	.19	.45	.03	.02	8.96		
Hyndman	Potomac		1.54	.25	.16	T.		.16	T.								.64	T.			.02	T.		.07		.09	.03	.23				3.19		
Lancaster	Lower Susq.	1.10	.13	.22	.09				T.								.96				.10		.03	.08		.02	.35					3.08		
Lansford	Lehigh		1.22	.36					.03								.26	3.24				.15		T.	.57	T.	.58	.40		.12		5.74		
Lawrenceville	N. Br. Susq.		.48	1.60	.64	.18		.01	T.								2.07											.22	.06			5.65		
Lebanon	Lower Susq.		T.	.49	.10	.03	T.		.03						.05	.01	1.52				.02		.02	.06		.03	.22	.15		.03		2.76		
Lewisburg	W. Br. Susq.		.67	.31	.12	.02	T.		.06	.03							1.61	.06			.17		.34		.25	.24	.07	.01				3.96		
Lloyd	do.																																	
Lock Haven	do.		1.29	.39	.26	.01		.04										1.24	.09			.10		.04	.55		.70	.44	.08	.05		5.28		
Lykens	Susquehanna		.03	.78	.12	T.											1.09	.96			.40		.21		.06	.29						3.94		
Mauch Chunk	Lehigh		1.27	.58	.20	T.		.25								.01	2.96	.73			.18		.30		.25	.07	.05	.05				6.90		
Mifflintown	Juniata	.01		.72	.50	.14		.02	.01								1.87				.20		.27		.09	.28	.02	T.				4.13		
Montrose	N. Br. Susq.			.30	.40			T.	T.		.25						.78	.62			T.	.08		.50		.60	.90					4.43		
Morris Run	N. Br. Susq.		.31	1.32	.92		.03		.04		.03						1.94	.02			.08		.10	.45		.70	.41	.07	.04			6.46		
Mount Pocono	Upper Del.			.29	.16	T.									.06	T.	1.00	1.60	1.00	T.		.06	.10	.11	T.		.70	.50	.10			5.68		
Muncy Valley	W. Br. Susq.		.68	.45	.23	T.											2.45	.26			.16		.37				1.42	.23			6.25			
Nar																																		

Daily Precipitation for November, 1927—Continued from page 53

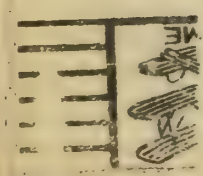
Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.....			.59	.05	.25		.32		.02			.07			.11	1.84	.80			.03	.04		.21	.04			.23	1.11	.27	.04		6.02
Beaver Falls|||	Beaver.....	.01		.51	.04	.22	.04	T.		.04		.01	.04			.01	2.10	.73	T.	.01	.09	.05		.21	.06	T.		.40	.68	.30		5.49	
Bradford.....	Allegheny.....	.15	.34	.59	.06	.34		.08	.37			.09	.09		.07		.06	2.88	*	.50	.05		.16	.99	.05	.05	1.62	.28	.33	2.16		11.36	
Brookville.....	do.....		.38	.95	.12												.75	.10	.15		.75			.30	.05	.75	.95	.50	.10			5.85	
Butler.....	Ohio.....	.18	*	.92	.14			.40							.08		* 2.78				.10		.05	.30	.06		.75	.67	.19	.40		7.02	
Claysville.....	do.....		.18	.91	.24	.23	T.		.18	T.		T.			.14		.15	2.15	.03		.29		.32	.01	.16		.15	.69	.09	.25		6.17	
Cloett.....	Allegheny.....		.48	.95	.14	.17		.06		T.		.10		.06		.05	.65				.09	T.	.08	.30	T.	.30	.58	.62	.17	.38		5.18	
Clymer††	Conemaugh.....		.27	1.37	.22	.12	.06		.03	.04			.06		*		.66	T.			.08	*	*	.28	.02	.06	.73	.63	.14	.16		4.93	
Confluence|||	Youghiogheny.....			1.27	.64	.40	.08		.32				.32					.38				.08		.13	.16		.18	.83				4.47	
Corapolis|||	Ohio.....	T.		.99	.07	.32	.19	T.		.04		T.	.04		.02		1.45	.86			.05	.05		.12	.01	T.	.20	1.13	.26	.16		5.96	
Corry.....	Allegheny.....	.29	.26	T.	.12	.30	.15	.45	.02		.11	.07		.01	T.	.41	2.08	.07	.34	.01	.04	.01	.25	.95	.06	.06	1.23	.22	.26	1.40		9.17	
Coudersport.....	do.....		.95	.53		.25										.62	1.30				.05		.30	.90			1.35	.53		.99		7.77	
Creekside.....	Allegheny.....		1.46	T.	*	.53		.10				.20					.76				.11		*	.38	*	*	1.83		.34		5.71		
Derry.....	Conemaugh.....		.22	1.00	.29	.12	T.	.08				.10		T.		.71					.06			.32	.02	.20	.51	1.10	.11	.12		4.94	
Donora|||	Monongahela.....		1.15	.22	.19	T.		.15				.04		.04		.90	.21				.13		.15	*	*	1.07	.03	.04			4.32		
Ebensburg.....	Conemaugh.....		.42	.80	T.	T.	.30		T.			.53		.08		.34						.02	.35		.13	.34	.86		.05		4.22		
Elk Lick.....	Youghiogheny.....		.32	.65	.20	.40											.96	.04			.10		.40		.22	.28	.80				2.37		
Falls Creek.....	Allegheny.....		.18	1.50		.13	.60	.30			.04		.08					.04			.07		.46			.94	.75	.20	.28		6.53		
Franklin|||	Allegheny.....	.34		.49	.05	.26		.07	.09			.06			.02		1.91	.93			.05		.42	.23		.42	.21	.34	.23		6.12		
Freeport|||	Allegheny.....		T.	.94	.24	.23	.04		.03		T.	.06		.05		.90	.72			.03	.01		.10	.03	T.	.23	1.00	.25	.26		5.12		
Greensburg.....	Youghiogheny.....		.32	1.10	.20	.24	T.	.12			.18		.03		.03		.01	.60	.03	T.		T.	T.	.38	.01	.23	.43	.97	.08	.05		4.98	
Greenville.....	Beaver.....	.03	.27		.22	.27	.12	T.			.01		.02		.02		.73	.88	.04	.02	T.	.08		.14	.82	.03	.14	.33	.40		2.33		
Grove City.....	Beaver.....	.34	.42	.05	.20	.24	.20	.09			.02		.01			.20	2.29	.06	.02	T.	.01		.01	.57	T.	.18	.73	.30	.15	.83		6.91	
Herr's Isl. Dam|||	Ohio.....		1.00			.32	.28							.01		.06	.91	.88	T.		.05	.05		.11	.01	T.	.16	1.16	.17	.08		5.25	
Indiana.....	Conemaugh.....											T.			.02		.38	1.75	.02	T.		.13		T.	.11	.01	.22	.50	.90	.05	.39		6.20
Ingram.....	Ohio.....	.26	.77	.17	.38	.06		.08							T.		.53	T.			.15		.20	.01	.26	.60	.76		.16		3.84		
Irwin.....	Youghiogheny.....	.12	.70	.11	.12	T.		.09				.03					.21	.01	T.		.06	.02	.02	.36	.03	.27	.45	.89		.04		4.49	
Johnstown.....	Conemaugh.....	.20	1.17	.50	.17	.01		.08			T.				T.		.05	.46	T.		.12		.21	.04	.03	.29	1.37	.11		.15		5.60	
Kregar|||	Youghiogheny.....	1.05	.69	.54	.29			.17			T.	.03					.05	.46	T.			.12		.21	.04	.03	.29	1.37	.11		.15		5.38
Linesville|||	Beaver.....	.12		.19	.40	.25	.19	.01			.02			.05		.05	* 1.14	.61	.05	.02	.02	.01	.04	1.12	.02		.28	.09	.37	.33		5.38	
Lock No. 4|||	Monongahela.....		1.12	.27	.45	.03		.20			.01				.05		.38	.75			.05	.11		.18	.02		.19	1.06	.06		4.93		
Lycippus.....	Conemaugh.....	.05	1.85	.22	T.	T.		.22				.32				T.	.61	.05	T.		.12		.32	T.	.27	.39	1.10		.08		5.60		
Mount Lebanon.....	Ohio.....	.27	.94	.03	.30	.10		.07								.28	1.55	T.		.14		.15		.18	.43	.93	.06	.50		5.94			
New Castle|||	Beaver.....	.51		.44	.03	.18	T.	.02	T.			.10		T.		.01	1.02	.76	T.		.07	.06	.03	.39	.04	.01	.83	.38	.09	.17		4.54	
Newell.....	Monongahela.....		1.04	.26	.16	.02		.03	.14			.10			.01		.78	.09			.16		.20		.20		.19	.90	.04	.09		4.21	
Parkers Landing|||	Allegheny.....	T.		.70	.22	.30	.25	.10	T.		T.		.16		.02		2.10	.95	T.		.12	T.	.02	.30	.20		.45	.45	.30	.16		6.80	
Pennline|||††	Beaver.....	.15			.39	.15	.15	.02				.10				.17	1.14	.53	.06		.01	.03	.93	.03		.27	.08	.49	.30		5.00		
Pittsburgh***	Ohio.....	.46	.58	.23	.22	.01	T.	.05	T.		T.	.10			.02		.36	1.22	T.		.06		.10	T.	.15	.77	.47	.02	.35		5.18		
Ridgway.....	Allegheny.....	.32	1.12	.04	.12	.26	.18	.02						.14		.30	1.55	.02	.02	.04	.04		.08	.45	.05	.18	.65	.45	.22	.22		6.47	
Saegertown.....	Allegheny.....							T.	.08		T.	.16			.02		.22	.58			.07	.01		.02	.18	T.	.22	1.15	.23	.05		4.58	
Saltsburg|||	Conemaugh.....		.86	.27	.29	.17									.03	T.	1.32	.67	T.		.07	.02		.43	.04		.18	.28	.27	.02		4.31	
Sharon|||	Beaver.....	.30		.34	.03	.23	.06	.02																									
Somerset.....	Youghiogheny.....		1.45	.15	.20	.03	T.	.13	.15			.01	.05				.95	.81			.04	.05		.15	.04		.38	.72	.06		3.98		
Springdale|||	Allegheny.....		.86	.24	.26	.13		.07							.02			.87				.19		T.	.18	.03	.19	.23	.58	.07	T.		4.89
Uniontown.....	Monongahela.....	.23	1.51	.21	.20			.25			T.	.13		.15				.10			.10		.05		.23	.28	1.20	.11	.10		4.63		
Unity Reservoir††	Youghiogheny.....	.30	1.34	.28	.24			.15						.07		.67	.85	.02			.08		.20		.20	.64	.44	.22	.50		5.51		
Vandergrift†	Conemaugh.....		.40	.86	.29	.11	.01	.02						.07		.18	2.67		.22			.06	.04	.99		.32	.63	.40	.34	1.80		9.33	
Warren.....	Allegheny.....	.25	.30	.30	.10	.20	.20	.09			.12	.08			.04																		
Washington†	Ohio.....		.47	.61	.38	.08	T.	.20		T.		.06			T.	.40	1.42	.02			.20	.01	.03	.26	.02	.21	.50	.48	.04	.56		5.95	
Westford|||	Beaver.....	.12		.57	.25	.27	.08					.15				.35	1.35	.42	T.			.07	.62	.10		.15	.24	.14	.17		5.05		
West Newton|||	Youghiogheny.....		.83	.18	.20	.15		T.	.20			.05			.10		.40	.75			.04		.20		T.	.18	1.11	.08	T.		4.47		
Zelienople|||	Ohio.....	.01		.65	.03	.26	.09	T.		.06			.05		.11		1.95	.87	T.		.05	T.		.28	.06	.01	.35	.64	.87	.13		5.97	
Lake Drainage.																																	
Erie***	Lake Erie.....	.04	.25	T.	.06	.53	.12	.09	T.	T.	.01		.13		T.	T.	.98	1.05	.32	.24	T.	T.	T.	.27	.72	T.	.26	.73	.46	T.	2.02		8.78
West Bingham.....	Genesee.....																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

Daily Temperatures for November, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	74	71	54	47	50	45	43	39	43	59	65	68	50	57	68	69	69	45	39	40	42	56	56	52	46	55	58	45	64	68	54.5	
	Minimum	39	43	48	38	35	35	32	29	30	28	30	43	32	27	29	52	59	43	30	26	26	31	41	40	32	33	42	39	41	.....	36.5
Altoona.....	Maximum	72	73	54	38	44	34	33	30	37	45	71	67	48	65	70	71	62	40	32	34	40	62	67	62	49	54	63	57	67	67	53.6	
	Minimum	45	45	34	33	30	27	26	23	28	29	37	48	25	32	36	46	40	31	22	20	28	40	56	48	38	28	43	41	43	46	35.6	
Beaver Dam.....	Maximum	74	70	46	48	43	43	41	36	50	60	70	70	50	64	76	72	59	39	34	38	43	62	63	53	50	57	55	65	67	70	55.9	
	Minimum	50	44	35	33	33	28	29	29	31	31	55	44	24	34	42	54	37	30	22	19	34	41	52	46	40	80	48	46	48	46	55.9	
Brookville.....	Maximum	72	68	42	45	.....	.....	46	45	59	71	54	49	58	72	71	54	34	30	34	41	59	59	61	44	58	60	59	64	67	.....	55.0*
	Minimum	38	35	32	21	.....	27	26	26	53	27	20	26	31	44	31	24	18	23	27	40	45	39	30	26	45	42	58	66	68	.....	52.1*
Butler.....	Maximum	76	66	45	43	42	41	40	34	47	60	70	69	60	58	74	74	68	40	32	32	42	58	61	58	63	55	62	58	66	68	55.4	
	Minimum	51	45	33	36	31	32	27	26	31	31	58	48	49	40	40	39	32	23	22	28	41	47	52	40	31	50	46	52	48	.....	59.0
Carlisle.....	Maximum	79	78	68	46	61	46	47	38	47	47	70	63	57	63	73	70	60	59	42	42	37	62	68	62	50	60	62	62	72	70	58.7	
	Minimum	41	45	42	36	30	33	32	32	28	35	40	28	24	36	50	50	42	28	21	26	36	40	50	50	40	28	42	47	42	40	56.7	
Catawissa.....	Maximum	76	75	51	48	44	43	44	41	47	72	66	49	60	69	70	69	40	41	41	43	55	64	64	50	60	62	62	72	70	.....	56.5
	Minimum	35	52	44	33	29	28	27	21	22	23	37	60	24	23	31	45	59	37	26	21	30	38	41	40	46	28	32	33	40	41	56.0	
Chambersburg.....	Maximum	73	73	64	45	46	40	42	35	45	47	69	62	48	64	75	71	48	38	74	62	37	34	39	43	65	63	65	59	66	67	56.9	
	Minimum	41	42	39	36	32	33	31	27	32	29	35	43	31	25	35	48	56	35	26	21	25	36	41	41	38	34	39	36	42	46	56.9	
Claysville.....	Maximum	76	71	48	47	47	38	39	36	48	64	75	71	48	63	78	74	62	37	34	39	43	65	63	62	48	62	64	66	71	71	57.0	
	Minimum	53	45	32	28	31	27	24	30	31	30	59	44	22	39	53	59	35	29	21	18	32	42	57	45	40	32	53	51	49	50	38.7	
Clearfield.....	Maximum	85	78	62	46	48	47	42	38	43	43	72	67	67	47	74	74	70	41	41	41	36	40	60	60	60	52	62	70	63	67	70	57.7
	Minimum	44	36	36	34	32	30	28	30	29	30	45	44	26	34	42	41	33	21	20	30	40	60	60	60	52	62	70	63	67	70	57.7	
Coatesville.....	Maximum	70	70	63	47	49	42	41	40	44	47	66	66	48	57	66	66	67	62	38	38	41	62	69	61	55	52	63	60	66	68	56.1	
	Minimum	30	43	45	35	32	32	28	24	31	25	43	47	30	21	47	54	60	36	27	21	30	37	42	40	35	31	45	40	46	40	35.8	
Corry.....	Maximum	73	65	44	41	43	34	35	33	36	55	67	66	52	62	70	67	57	36	29	32	39	56	57	56	41	55	57	57	60	60	51.2	
	Minimum	54	42	37	34	31	25	24	23	27	27	51	39	20	32	51	55	35	26	22	21	30	37	42	40	35	31	45	40	46	40	35.8	
Emporium.....	Maximum	46	46	34	33	30	29	23	21	29	27	45	65	45	55	66	72	64	40	33	34	42	60	60	61	46	56	60	51	61	68	52.7	
	Minimum	73	63	46	45	45	35	35	34	45	60	72	68	48	65	73	59	43	33	31	38	50	60	60	60	43	59	62	65	65	65	53.3	
Erie.....	Maximum	60	46	42	38	30	29	29	30	30	36	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	53.3	
	Minimum	70	63	43	45	46	36	36	36	36	36	48	64	70	51	50	62	74	62	45	33	30	40	54	60	59	62	61	64	65	65	53.3	
Franklin.....	Maximum	42	47	33	32	31	26	25	24	28	29	36	43	22	22	40	41	40	30	23	24	25	36	52	42	39	32	33	33	45	45	34.0	
	Minimum	67	65	60	58	44	36	32	34	36	44	64	63	40	50	60	60	64	54	32	32	38	57	59	54	46	46	56	54	58	62	50.2	
Gettysburg.....	Maximum	46	49	36	30	27	25	20	19	24	25	35	40	22	27	42	52	54	30	19	16	24	32	48	37	31	30	40	38	46	46	33.2	
	Minimum	73	73	65	46	49	42	41	40	48	45	69	64	51	58	69	72	68	62	38	42	36	66	68	65	63	56	66	65	70	66	57.9	
Greensburg.....	Maximum	44	47	44	36	34	34	31	29	32	31	37	50	31	26	42	54	59	37	28	24	29	35	47	52	45	31	45	49	48	51	39.4	
	Minimum	73	71	46	42	42	36	38	33	42	63	72	65	51	66	75	75	61	38	30	35	42	63	62	63	47	60	63	65	67	70	55.2	
Grove City.....	Maximum	52	46	38	34	32	29	28	28	33	31	58	42	26	39	50	57	61	30	24	18	31	42	57	47	41	32	55	52	52	56	39.8	
	Minimum	81	79	53	54	49	45	37	38	57	61	79	65	46	60	72	68	57	37	29	35	41	58	58	61	46	54	59	60	65	61	55.5	
Hamburg.....	Maximum	55	43	34	35	31	26	22	25	31	33	55	40	23	37	52	56	34	29	23	22	31	32	40	43	33	34	50	44	41	43	36.6	
	Minimum	72	71	65	54	46	44	40	42	45	64	60	52	56	67	66	69	60	39	38	36	53	63	61	52	58	58	56	63	62	.....	55.1
Harrisburg.....	Maximum	41	41	48	35	33	30	27	25	30	23	37	40	28	25	52	56	54	37	22	22	27	34	44	42	41	27	40	40	39	41	36.0	
	Minimum	71	71	55	46	46	41	40	37	41	45	66	62	45	56	67	70	67	45	38	40	37	60	65	59	51	54	62	59	68	67	54.4	
Hawley.....	Maximum	49	52	37	36	37	34	34	31	31	35	42	45	35	31	46	58	45	35	29	26	32	36	51	48	45	35	48	42	42	48	39.8	
	Minimum	74	69	65	46	39	40	36	34	35	45	68	67	50	56	64	66	65	34	33	39	58	61	60	41	53	58	53	62	71	.....	53.6
Huntingdon.....	Maximum	37	37	44	33	28	30	27	19	27	22	41	45	25	20	43	48	59	32	27	18	23	36	47	34	54	26	43	32	37	.....	53.5
	Minimum	75	74	61	43	46	40	37	34	45	47	72	67	51	58	71	73	68	35	36	37	66	67	65	56	63	66	61	71	69	.....	57.0
Indiana.....	Maximum	43	41	37	35	29	32	31	24	30	27	37	41	25	24	32	46	53	35	27	17	29	36	61	50	41	27	44	45	48	39	36.2	
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum	74	72	48	39	40	34	35	34	38	55	71	56	52	60	70	74	65	39	30	36	52	64	62	64	46	60	64	64	71	.....	54.4
	Minimum	46	42	36	34	34	29	29	32	32	32	48	36	30	31	37	43	39	30	26	20	28	44	52	46	41	30	51	53	50	47	37.5	
Lancaster.....	Maximum	72	75	73	63	55	53	45	35	38	43	63	62	50	58	69	69	70	67	44	43	42	64	73	69	68	60	66	64	58	64	59.2	
	Minimum	39	39	48	34	30	28	23	28	25	33	42	28	23	40	48	55	36	24	20	23	35	38	44	42	27	44	42	42	42	39	35.0	
Lawrenceville.....	Maximum	73	62	50	44	44	39	37	34	42	47	70	66	46	52	66	72	63	42	44	42	42	59	66	55	53	56	59	53	64	65	58.5	

No.	Name	Rank	Regiment	Remarks
1	John Smith	Private	1st Regt.	
2	James Brown	Private	2nd Regt.	
3	William Jones	Private	3rd Regt.	
4	Robert Taylor	Private	4th Regt.	
5	Thomas White	Private	5th Regt.	
6	Charles Black	Private	6th Regt.	
7	George Green	Private	7th Regt.	
8	Edward Hall	Private	8th Regt.	
9	Samuel King	Private	9th Regt.	
10	David Lee	Private	10th Regt.	
11	John Miller	Private	11th Regt.	
12	James Wilson	Private	12th Regt.	
13	William Moore	Private	13th Regt.	
14	Robert Clark	Private	14th Regt.	
15	Thomas Adams	Private	15th Regt.	
16	Charles Baker	Private	16th Regt.	
17	George Evans	Private	17th Regt.	
18	Edward Foster	Private	18th Regt.	
19	Samuel Green	Private	19th Regt.	
20	David Hill	Private	20th Regt.	
21	John Hunt	Private	21st Regt.	
22	James King	Private	22nd Regt.	
23	William Lewis	Private	23rd Regt.	
24	Robert Martin	Private	24th Regt.	
25	Thomas Nelson	Private	25th Regt.	
26	Charles Phillips	Private	26th Regt.	
27	George Reed	Private	27th Regt.	
28	Edward Scott	Private	28th Regt.	
29	Samuel Turner	Private	29th Regt.	
30	David Wall	Private	30th Regt.	
31	John Ward	Private	31st Regt.	
32	James Wright	Private	32nd Regt.	
33	William Young	Private	33rd Regt.	
34	Robert Zane	Private	34th Regt.	
35	Thomas Allen	Private	35th Regt.	
36	Charles Baker	Private	36th Regt.	
37	George Clark	Private	37th Regt.	
38	Edward Davis	Private	38th Regt.	
39	Samuel Evans	Private	39th Regt.	
40	David Foster	Private	40th Regt.	
41	John Green	Private	41st Regt.	
42	James Hall	Private	42nd Regt.	
43	William Hill	Private	43rd Regt.	
44	Robert King	Private	44th Regt.	
45	Thomas Lee	Private	45th Regt.	
46	Charles Miller	Private	46th Regt.	
47	George Nelson	Private	47th Regt.	
48	Edward Phillips	Private	48th Regt.	
49	Samuel Reed	Private	49th Regt.	
50	David Scott	Private	50th Regt.	
51	John Turner	Private	51st Regt.	
52	James Wall	Private	52nd Regt.	
53	William Ward	Private	53rd Regt.	
54	Robert Wright	Private	54th Regt.	
55	Thomas Young	Private	55th Regt.	
56	Charles Zane	Private	56th Regt.	
57	George Allen	Private	57th Regt.	
58	Edward Baker	Private	58th Regt.	
59	Samuel Clark	Private	59th Regt.	
60	David Davis	Private	60th Regt.	
61	John Evans	Private	61st Regt.	
62	James Foster	Private	62nd Regt.	
63	William Green	Private	63rd Regt.	
64	Robert Hall	Private	64th Regt.	
65	Thomas Hill	Private	65th Regt.	
66	Charles King	Private	66th Regt.	
67	George Lee	Private	67th Regt.	
68	Edward Miller	Private	68th Regt.	
69	Samuel Nelson	Private	69th Regt.	
70	David Phillips	Private	70th Regt.	
71	John Reed	Private	71st Regt.	
72	James Scott	Private	72nd Regt.	
73	William Turner	Private	73rd Regt.	
74	Robert Wall	Private	74th Regt.	
75	Thomas Ward	Private	75th Regt.	
76	Charles Wright	Private	76th Regt.	
77	George Young	Private	77th Regt.	
78	Edward Zane	Private	78th Regt.	
79	Samuel Allen	Private	79th Regt.	
80	David Baker	Private	80th Regt.	
81	John Clark	Private	81st Regt.	
82	James Davis	Private	82nd Regt.	
83	William Evans	Private	83rd Regt.	
84	Robert Foster	Private	84th Regt.	
85	Thomas Green	Private	85th Regt.	
86	Charles Hall	Private	86th Regt.	
87	George Hill	Private	87th Regt.	
88	Edward King	Private	88th Regt.	
89	Samuel Lee	Private	89th Regt.	
90	David Miller	Private	90th Regt.	
91	John Nelson	Private	91st Regt.	
92	James Phillips	Private	92nd Regt.	
93	William Reed	Private	93rd Regt.	
94	Robert Scott	Private	94th Regt.	
95	Thomas Turner	Private	95th Regt.	
96	Charles Wall	Private	96th Regt.	
97	George Ward	Private	97th Regt.	
98	Edward Wright	Private	98th Regt.	
99	Samuel Young	Private	99th Regt.	
100	David Zane	Private	100th Regt.	



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXII. DECEMBER, 1927. No. 12

GENERAL SUMMARY.

This was a month of mostly mild temperatures, the cold periods being of short duration, and not very severe. The coldest period in most parts of the State was the 9th and 10th, when temperatures averaged from 10° to 15° below the normal. The precipitation for the month was heavy, but the snowfall was only about one-half of the December normal. Most of the snow fell during the middle of the first week, and had nearly disappeared in the southeastern counties by the end of the week. The ground was generally bare in the chief winter wheat growing regions when the cold period occurred on the 9th and 10th, and the frost penetrated to a considerable depth. This was followed by an unusually mild period from the 12th to the 16th inclusive, during which the frost came out of the ground again in the greater portion of the State, and farmers started plowing. Another hard freeze occurred from the 24th to the 26th inclusive, and was followed by unseasonably mild conditions during the remainder of the month. This alternate action of freezing and thawing without snow cover resulted in some damage to winter wheat, especially on heavy soils. The extent of the damage cannot be estimated for some time to come. The monthly precipitation of 8.93 inches at Grove City has been exceeded in December only twice in the last forty years. There were no severe or damaging storms during the month. On the night of the 3d and 4th an ice coating formed on paved roads in some parts of the State and was followed by a deposit of sleet that made the roads skiddy and almost impassible for about 24 hours, when a rapid melting occurred and facilitated the scraping of the main highways.

TEMPERATURE.

The mean temperature for the State, as determined from the reports of 83 stations, was 32.7°, an excess of 1.6° as compared with the normal. The highest monthly mean was 38.9°, at Philadelphia Weather Bureau, and the lowest was 26.5° at Gouldsboro. Extremes for the month ranged from a maximum of 73° at Newell on the 1st to a minimum of 6° below zero at Bradford on the 25th. The greatest daily range of temperature was 49°, at Claysville and Pittsburgh on the 8th.

PRECIPITATION.

The average precipitation, (from rain, sleet and melted snow) for the State, computed from reports of 132 stations, was 4.41 inches, or 1.18 inches greater than the normal for December. The greatest monthly total was 8.93 inches, at Grove City, while the least, 2.16 inches, was recorded at Center Hall. The greatest amount recorded in any 24 consecutive hours was 2.94 inches at Grove City on the 13th. Sleet in amounts varying from trace to over 2 inches fell in the southeastern portion of the State on the 4th. The average snowfall for the State was 4.5 inches, or just about half the normal December amount. The greatest monthly snowfall was 26.4 inches at Corry. The greatest 24-hour snowfall was 6.0 inches and fell at several stations on the 2d, 17th, 19th and 20th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent				Velocity, in miles per hour			
				8 a m	12 noon.	8 p. m.		Average	*Highest	Direction	Date
Erie.....	56.1	284.5	20	75	68	74	12,742	17.1	62	sw.	8
Harrisburg.....	103.3	290.6	36	75	66	65	6,520	8.8	32	s.	8
Philadelphia.....	135.9	290.6	47	74	63	66	8,137	10.9	35	ne.	3
Pittsburgh.....	63.6	287.3	22	77	74	74	10,262	13.8	47	sw.	8
Reading.....	107.2	290.6	37	78	69	75	6,365	8.6	41	se.	16
Scranton.....	70.3	287.3	24	87	81	86	6,033	8.1	34	se.	7

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15	9
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11	12
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16	12
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11	10
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15	9
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14	12
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12	10
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12	7
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12	6
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17	12
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13	10
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11	10
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14	7
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15	11
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17	14
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14	9
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17	11
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14	8
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21	14
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16	12
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14	10
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14	8
1910.....	24.4	68	-14	2.65	4.41	0.64	8	6	17	12
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19	13
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15	9
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15	8
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18	14
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17	12
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11	12
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13	8
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15	11
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14	11
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15	10
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15	10
1922.....	31.5	69	-9	2.75	4.55	1.19	10	8	13	10
1923.....	39.6	71	1	4.99	8.55	2.42	9	7	15	14
1924.....	29.8	69	-23	2.13	4.42	0.56	7	7	17	11
1925.....	30.7	62	-15	1.72	3.93	0.69	8	7	16	10
1926.....	27.3	62	-20	2.58	4.61	0.90	8	7	16	12
1927.....	32.7	73	-6	4.41	8.93	2.16	9	6	16	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	5.7	8.2	14	3.0	28	18
Phillipsburg.....	Delaware.....	7.1	15.0	9	4.0	29	22
Mauch Chunk.....	Lehigh.....	+0.4	3.5	7	-1.7	25	12
Wilkes-Barre.....	Susquehanna.....	13.1	15.9	9	9.5	7	20
Williamsport.....	Susquehanna.....	6.9	13.6	17	2.0	27	20
Harrisburg.....	Susquehanna.....	7.7	10.9	18	4.9	29	17
Greensboro.....	Allegheny.....	14.5	30.4	14	11.0	27	22
West Newton.....	Youghiogheny.....	3.5	12.2	15	1.4	28	20
Lock No. 4.....	Monongahela.....	17.0	31.4	14	13.5	26	31
Pittsburgh.....	Ohio.....	16.9	30.4	15	11.8	28	25
Beaver Dam.....	Ohio.....	17.3	37.9	15	8.9	28	30

Climatological Data for December, 1927

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No of days				Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																			
Allentown	Lehigh	254	15	34.4		61	8	15	9†	31	6.54	+2.69	2.57	2.0	11	14	10	7	John A. Frick.
Altoona	Blair	1,615	40	30.8	+1.8	69	1	5	9†	39	3.27	+0.92	0.62	9.0	16	10	4	17	Lewis E. Biller.
Arendtsville	Adams	700		33.6		67	1	8	10	38	4.57		0.92	2.0	12	16	6	9	Dr. S. W. Frost.
Bethlehem	Northampton	295	43	35.8	+2.7	66	1	14	9†	31	6.33	+2.83	1.85	5.0	8	13	7	11	Lehigh University.
Bustleton	Philadelphia	125	8																Experiment Station.
Carlisle	Cumberland	467	60	34.8	+3.5	64	1	10	10	34	3.35	+0.34	1.20	T	9	14	3	14	Prof. C. E. Miller.
Catawissa	Columbia	520	30	32.5	+0.9	68	1	8	25	35	4.13	+1.13	0.90	2.0	10	6	7	18	H. H. Yetter.
Center Hall	Center	1,272	31	27.9	-1.1	61	14	4	9	28	2.16	-0.59	0.85	7.5	9	11	7	13	S. W. Smith.
Chambersburg	Franklin	580	27	33.8	+0.9	66	14	10	10	33	3.53	+0.91	0.77	0.6	11	12	5	14	William B. Spear.
Clearfield	Clearfield	1,120	17	32.0	+3.3	62	1	6	10	39	5.87	+2.78	1.20	13.0	13	10	2	19	E. W. Hess.
Coatesville	Chester	380	39	33.2	+0.2	66	1	6	10	35	4.42	+0.20	1.35	4.4	12	10	8	13	Prof. W. T. Gordon.
Colebrook	Lebanon	560	17	33.1	+1.2	65	1	8	10	37	4.29	+0.84	1.00	0.5	13	13	5	13	Wm. A. Rorer.
Emporium	Cameron	1,050	39	30.0	+0.9	63	14	0	25	41	6.21	+2.95	1.56	5.5	14	10	5	16	T. B. Lloyd.
Ephrata	Lancaster	380	26	34.8	+3.5	68	1	12	10	33	4.23	+0.72	1.04		12	11	7	13	Ira J. Keath.
Freeland	Luzerne	1,970	12	27.6		57	14	2	9	37	6.21		1.89	7.6	16	8	5	18	Theo. Reichmann.
George School	Bucks	190	20	36.4	+4.1	64	2†	12	10	39	3.80	-0.01	0.93	2.2	10	14	5	12	U. S. Weather Bureau.
Gettysburg	Adams	553	53	35.2	+3.5	65	1	12	9†	30	4.00	+0.67	1.14	2.0	14	10	8	13	J. S. Pennell.
Gordon	Schuylkill	840	23	32.0	+3.5	63	1	5	10†	33	5.23	+0.96	1.27	1.0	16	13	4	14	Prof. N. W. Swayne.
Gouldsboro	Wayne	1,875	3	26.5		58	1	2	24	41	4.00	+0.89	1.26	8.0	12	9	9	13	Dr. Henry Stewart.
Hamburg	Berks	535	34	34.7	+2.7	65	1	9	10	30	4.71	+0.86	1.03	1.0	11	15	7	9	Capt. J. G. Johnson.
Hanover	York	600	23																Gustav Holtz.
Harrisburg	Dauphin	361	57	34.9	+2.2	64	14	14	9	41	3.33	+0.68	0.72	T	12	8	4	19	State Sanatorium.
Hawley	Wayne	900	8	29.7		63	1	5	26	32	3.50		0.87		12	10	9	12	Mrs. Mabel C. Wolcott.
Holtwood	Lancaster	200	12	36.2		68	1	16	10	34	2.71	+0.22	0.82	T	13	10	8	13	U. S. Weather Bureau.
Huntingdon	Huntingdon	650	39	32.5	+1.0	69	1	6	10†	37	2.71	-0.37	0.66	5.5	12	12	3	16	H. W. Lowy, C. E.
Hyndman	Bedford	977	1	34.2	+2.1	69	1†	9	9	40	2.33	-0.54	0.55	5.5	11	8	4	19	Prof. W. J. Swigart.
Lancaster	Lancaster	255	39	34.7	+1.3	63	14	10	10	36	4.12	+0.71	1.45	4.0	10	16	6	9	John S. Madore.
Lawrenceville	Tioga	1,000	29	31.8	+4.4	66	1	4	25	39	2.80	+0.67	0.90	6.0	10	6	4	21	Supt. of Water Works.
Lebanon	Lebanon	469	86	33.4	+1.5	61	13	12	11	33	4.41	+0.79	1.06	2.5	10	11	8	12	C. P. Darling.
Lewistown	Union	450	52	32.9	+3.9	66	1	11	9	37	4.13	+0.87	1.03	3.5	15	13	5	13	S. B. Benzing.
Lock Haven	Clinton	560	37	33.1	+2.3	63	14	9	10	37	3.52	+0.43	0.75	6.0	10	5	8	18	Prof. W. G. Owens.
Lykens	Dauphin	680	12	34.2	+0.5	66	1	5	10	37	4.37	+1.34	0.92	T	14	10	6	15	Joseph Beaver.
Mauch Chunk	Carbon	600	36	31.2	+0.7	64	1	8	10	39	6.40	+2.16	1.40	1.5	13	13	4	14	Susquehanna Collieries Co.
Mifflintown	Juniata	445	23	32.7	+2.5	65	1	8	10	36	3.00	-0.08	0.81	5.0	12	14	1	16	R. K. Wintermute.
Montrose	Susquehanna	1,720	24	29.0	+3.4	66	1	3	24	39	3.94	+1.24	0.78	10.0	13	7	3	21	Wellington Smith.
Mt. Pocono	Monroe	1,658	23																Silas Jagger.
Muncy Valley	Sullivan	1,045	15	30.2	+2.5	57	14	7	10	33	4.65	+1.63	0.85	T	9	7	9	15	Cecil J. Hoskinson.
Narberth	Montgomery	300	8	35.7		67	1	12	10	35	3.64		0.98	2.1	13	9	7	15	A. H. Boatman.
Neshaminy Falls II	Bucks	60	38	33.8	+2.0	65	8†	9	10	41	5.52		2.85	3.0	10	16	2	13	Charles Decker.
Palmerton	Carbon	398	10	32.8		68	1	12	24†	40	5.36		0.86	2.4	13	9	8	14	North Springfield Water Co.
Philadelphia	Philadelphia	114	56	38.9	+2.6	67	1	18	25	38	3.99	+0.95	1.72	T	13	9	6	16	New Jersey Zinc Co.
Philadelphia-Gtn	Philadelphia	113	2	38.8		67	1	18	9†	32	4.07		1.72	T	11	10	7	14	U. S. Weather Bureau.
Phila. Navy Yard	Philadelphia	12	11	38.0		66	1	18	25†	38	3.87		1.71	T	11				Julius Bernstein.
Phila. Point Breeze	Philadelphia	90	2	38.8		68	1	19	9†	37	3.11		1.09	T	12	11	6	14	Commandant, Navy Yard.
Phoenixville	Chester	100	16	36.5	+3.2	67	1	13	10	27	4.95	+1.73	1.62		11	13	11	7	Atlantic Refining Co.
Quakertown	Bucks	496	42	33.6	+2.5	66	1	10	10	34	5.79	+2.25	2.20	2.6	12	11	8	12	North Springfield Water Co.
Reading	Berks	325	57	36.1	+3.9	68	1	16	9	39	4.38	+1.06	1.06	2.7	11	7	9	15	John E. Benner.
Scranton	Lackawanna	805	32	32.2	+1.5	60	8	12	24	41	3.64	+1.03	0.93	2.6	15	3	7	21	U. S. Weather Bureau.
Selinsgrove	Snyder	455	37	33.7	+2.3	65	1	11	9†	31	3.34	+0.13	0.80	0.5	14	8	12	11	Dr. George E. Fisher.
Shawmont II	Philadelphia	51	31	37.0		66	1	16	10	25	4.36	+0.47	1.77	3.5	11	5	13	13	W. S. Gules.
State College	Center	1,217	42	30.6	+1.0	63	13†	6	9†	38	3.57	+0.86	0.66	5.8	12	6	14	11	C. A. Kern.
Stroudsburg	Monroe	500		31.6		60	7†	9	26	38	5.35		1.20	T	11	12	5	14	State Normal School.
Towanda	Bradford	754	32	30.6	+2.0	66	1	10	4	40	3.11	+0.74	0.70	7.5	11	3	7	21	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	61	27.6	-0.6	62	1	5	25	34	3.15	+0.55	0.82	3.5	10	18	5	8	George W. Hill.
West Chester	Chester	455	89	36.3	+3.3	66	1	11	10	37	3.59	-0.50	1.00	4.0	6	11	7	13	Joseph W. Belt.
Williamsport	Lycoming	521	40	32.3	+1.8	68	1	11	9	36	3.91	+0.86	0.97	4.0	13	11	5	15	Miss Veronica E. April.
York	York	400	39	35.0	+2.2	67	1	10	10	35	3.59	+0.45	1.05	8.0	14	13	8	10	York Water Co.
Ohio Drainage.																			
Beaver Dam II	Beaver	700	34			63	13†	7m	9	37m	4.88	+2.16	1.32		12	6	3	22	U. S. Engineer.
Bradford	McKean	1,460	12	29.9		62	13	-6	25	39	6.21		1.03	5.0	14	15	0	16	Bradford Electric Co.
Brookville	Jefferson	1,173	36	27.0	-0.9	61	13	-2	25	41	6.20	+3.37	2.25	4.5	12	13	5	13	John Fawcett.
Butler	Butler	1,152	2	33.0		62	13†	7b	9†	31b	5.61		2.00	2.0	9	8	1	22	William C. Faust.
Claysville	Washington	1,150	23	33.2	+1.3	65	14	4	9	49	4.35	+1.40	1.06	4.9	13	12	0	19	J. L. Melvin.
Corry	Erie	1,430	15	28.9	+0.2	60	13	3	26	36	6.65	+3.09	1.12	26.4	20	7	10	14	Nevin R. Dickson.
Derry	Westmoreland	1,172	30	32.8	+1.1	70	1	2	25	44	3.76	+0.46	0.60	3.9	16	5	13	13	Ted R. Wineman.
Donora	Washington	762	1	35.8		65	13	12	25	40	2.67		0.62	3.0	13	0	6	25	Donora Zinc Works.
Ebensburg	Cambria	2,000	9	29.0		66	1	1	25	41	3.73		0.61	5.0	11	7	7	17	D. H. Jones.
Elk Lick II</																			

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Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh		T.	1.17		2.57			.91			.01	.37	.07	.46		.17	.23													.23	.30	T.	6.54	
Altoona	Juniata	.03	.35		.10			.02	.50	T.		.36	.27	.46	.20	.02	.62	.01	.02												.02	.26	T.	3.27	
Ansonia|||	W. Br. Susq.	.30		.19		.10			1.00			T.	.15	.09	.49		.38	.64													.11	.04	T.	3.49	
Arendtsville|||	Lower Susq.		.12	.90		.71			.92			.29	.29	.03	.38		.24	.33		T.												.04	.65	4.57	
Baker's Summit.	Juniata		.59		.17			.06	.45			.29	.16	.33	.05		.69														.17	.03	.17	3.15	
Bethlehem	Lehigh		1.08		1.85				.93			.65		.42			.57							T.							.49		.34	6.33	
Blosserville||	Lower Susq.		.40		.45		.60				.20			.22			.40														.28	.03	.15	2.73	
Bustleton	Lower Del.											.20	.07	.08		T.	.68														.28	T.	.16	3.36	
Carlisle	Lower Susq.		1.20	T.	.36	.32		T.	.40	.08		.22		.55		.03	.60														.40	T.	.30	4.13	
Catawissa	N. Br. Susq.		.90		.65	T.			.85			.24		.12		.01	.08															.08		.09	2.16
Center Hall	Susquehanna		.64		.05				.67			.16	.08	.11	.12		.55																	.16	3.53
Chambersburg	Potomac		.77	T.	.43	.12		T.																								.36			
Clearfield	W. Br. Susq.	.30	.20		T.			.05	.70			.70	.10	.90	.70	.08	1.20		T.	T.	.04				T.						.60		.30	5.87	
Coatesville	Lower Del.		1.02	.06	1.08	.27			.75			.14	.10	.05	.03		.37														.24	T.	.31	4.42	
Colebrook	Lower Susq.	T.	.90	.05	*	1.00		.01	.51			.33	.03	.23	T.		.50														.42	.01	.30	4.29	
Conshohocken	Schuylkill		.91	T.	1.71			T.	.57			.18	.04	.02	T.	.03	.39								T.						.15		.21	4.21	
Cresson|||	Juniata		.25		.05							.90	.88	.92			.10	.23															.03	3.36	
Doylestown	Lower Del.		.72		.40	1.72			.39		T.		.22	.23		.26	.03														.40	.02	.09	4.48	
Driftwood|||	W. Br. Susq.	.26	T.	.05		.01			.90			.60	.10	1.15		.60	.30	T.			.10				T.						.24		.30	4.62	
Emporium	do.	.14	.15		T.	T.		.31	.64		T.	.66	.14	.86	.34	.19	1.56		T.		.10	.20			T.						.66	T.	.26	6.21	
Ephrata	Lower Susq.	T.	1.04	.11	.55	.74		.42			.24	.02	.18	T.		.34	T.														.44	.01	.14	4.23	
Forest City	N. Br. Susq.	.15	.55	.51	.13	.51		1.05			.10	.41	.50	.73			.41			.09	T.	T.	T.	T.	T.	T.					.22	T.	.26	5.62	
Freeland|||	Lehigh	.08	T.	.91	T.	.89		1.87	.02		T.	.24	.22	.61		.05	.63		T.		.03	T.				.11	.02				.24	.26	.03	6.21	
George School	Lower Del.		.82		.93	.30					.51	.18	.22	.08		.61															.05	T.	.10	3.80	
Gettysburg	Potomac		1.07	.07	.63	.37		.03	.51			.14	.06	.07	.10		.43		T.	T.											.27	.01	.24	4.00	
Girardville	Susquehanna		.99		.56	.06		.59	.50			.20	.02	.54		.09	.37	T.	T.					.04	.01						.41		.29	4.67	
Gordon	Lower Susq.	.09	.82	.10	.20	.48		.02	1.27			.20	.10	.28	.25		.62	.05	T.												.55	.05	.15	5.23	
Gouldsboro||	Lehigh			.35		.53		1.26				.06		.62		.25	.33				.09		.09								.25	.09	.08	4.00	
Graterford	Schuylkill		.81	.30	.94	.21		.74			.08	.02	.09	.05		.36	.08														.37		.07	4.05	
Hamburg	Schuylkill		.91	.08	.15	.10		1.03			.44		.46			.74															.44	.16	.20	4.71	
Hamlin	Upper Del.		.90		.67			.60	.40			.10	.20	.15	.35		*	.60							.15						.05		.38	4.55	
Hanover	Lower Susq.																																		
Harrisburg***	do.		.72		.61	T.		.37	.13		.22		.19	.02	.01	.49			T.												.34	.02	.21	3.33	
Harrisburg East	do.		.82	.01	.64			.01	.40		.24		.23	.03	.43																.39	.03	.06	3.29	
Harrisburg North	do.		.01	.18	.63	.65		.41			.23	.02	.31	.17	.40																.25	.13	.18	3.52	
Hawley|||	Upper Del.		.05	.87		.85		.43		*	.16	.28	.30			.40					T.										.08	.07	.01	3.50	
Holtwood||	Lower Susq.		.20	.82	T.	.50		.45			.02	.11	.03	.04		.17	.06														.17	.10	.04	2.71	
Huntingdon	Juniata		.55	.02	.17			.42	T.		.14	.10	.31	.10	T.	.66															.10	.04	.10	2.71	
Hyndman	Potomac		.55		.19		.15	.30			.07	.16	.29	.04	T.	.38	T.	T.	T.	.01											T.		.19	2.33	
Lancaster	Lower Susq.		1.45		.40	.45		.53			.23	.11	.16			.41															.28		.10	4.12	
Lansford|||	Lehigh			.75		.88		1.30			.26	.16	.50			.01	.38														.18	.26		4.68	
Lawrenceville	N. Br. Susq.	.15	.30	T.	T.			.58			.10		.22	.40		.90	T.		T.	.05	T.					.05					.05			2.80	
Lebanon	Lower Susq.		1.06		.82			.61			.25		.37		.12	.37		T.													.25	.22	T.	.34	4.41
Lewisburg	W. Br. Susq.	.11	.87	.04	.20	.18		.56			.08	.05	.15	.50		1.03	.04														.14	.03	.15	4.13	
Lloyd	do.																																		
Lock Haven	do.		.14	.46		.18		.75			.33		.34	.52		.70																.11		.04	3.52
Lykens	Susquehanna		.10	.75	.04	.29	.41	T.	T.	.92		.06	.07	.25	.16	.74	.04	T.													.42	T.	.12	4.87	
Mauch Chunk	Lehigh		.05	.93		.62	.58	.06	1.40		.28	.04	.64	.17		.72															.55		.36	6.40	
Mifflintown	Juniata			.65		.23	.15		.44		.08	.07	.27	.09		.81																.14	.02	.05	3.00
Montrose	N. Br. Susq.		.30	.32		T.		.78			.13		.23	.60		.35				.10	.06										.75	.08	.16	3.34	
Morris Run	N. Br. Susq.	.42	.47		.07	.03		.07	.55		.15		.40	.23		.72	.20							.02		.22						.10		3.65	

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Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam	Ohio	.68		.05				.11				.10	.85	.20	1.32		1.08	.28												.17	.01	.08	4.88	
Beaver Falls	Beaver	.52		.04				.08	T.			.15	.67	.24	1.18		.99	.25	T.	.01	.01	T.			T.	T.				.27	.01	.13	4.55	
Bradford	Allegheny	.85	.03					.43				.58		.50	.79		1.03	.50			*	.06								.42	.45	.42	6.21	
Brookville	do		.20	T.	T.			.25			.05	.90	10.25			.90	.80		T.	.15	T.			T.						.30	.05	.25	6.20	
Butler	Ohio		.08									.95	.05	*	2.03		*	2.00		.05				T.								.45	5.61	
Claysville	do	.42	.18					T.	T.			.70	.58	.27	.80	.11	1.06			.03	.03	.06			T.					.02		.09	4.35	
Cloet	Allegheny		.14		T.			.18	.05		.06	.69	.11	1.62	.04	.52	.38			T.				.40							.21		.18	4.58
Clymer	Conemaugh	.07	.21		T.			*	.56			.62	.74	1.46		*	.86			T.	T.		.03							.23		.22	5.00	
Confluence	Youghiogheny	.12	.05	.42				.10					1.17	.12	.93		.10	.22		.06	.03										.13	.03	3.48	
Coraopolis	Ohio	.68		.10					T.	T.		.12	.75	.18	1.37		.77	.55	T.	.01	.03	T.								.10	.01	.10	4.77	
Corry	Allegheny		.68		T.			.01	.38	.11	.01	.26	.39	.45	.65		.85		.02	.38	.52	.09	.01	.04	.05		T.			.56	.07	1.12	6.65	
Coudersport	do							.98				.41		.92		1.09							.40								.31		4.11	
Creekside	Allegheny		*	.31				.22			.09	*	2.95				*	1.04	T.	.03			.10							.15		.22	5.15	
Derry	Conemaugh	.09	.36					.07	.10			.60	.30	.50	.52	.07	.56			.07	.06	.10				.07		T.	T.	.05		.24	3.76	
Donora	Monongahela		.20		.01			.10	T.			*	.94	.22	.40		.60		.05	.05	T.	.01									.02		.07	2.67
Ebensburg	Conemaugh		.40					.15	.61			.45	.55	.61	.21	.08	.07				.15											.45		3.73
Elk Lick	Youghiogheny		.60					.30				.40	.05	.34	.46				.30	.30	.10										.25		.40	4.10
Falls Creek	Allegheny		.30					.31				.64	.32	.92	.09		1.38			.05	.10			.05						.85		.23	5.74	
Franklin	Allegheny	1.87						.21			.10	.45	.17	1.65		.85	.77		.02	.28										.40	.04	.25	7.06	
Freeport	Allegheny	.41		.11				.14			.10	.96	.26	1.45		1.10	.37													.05	.02	.09	5.06	
Greensburg	Youghiogheny	.06	.26		T.			.02	.07	T.		.55	.61	.61	.37	.04	.60		T.	.05	T.	.07	.01	.01						T.	T.	.24	3.57	
Greenville	Beaver	.23						.07		T.		.31	.10	1.23	.26		1.02		.01	.06	.12	T.	T.							.02	.01	.77	4.21	
Grove City	Beaver	.39						.10	T.	T.		.72	.16	2.94	.80	1.02	1.34		.15	.34	.11	T.	T.							.87	T.	.49	8.93	
Herrs Isl. Dam	Ohio	.54	.22		T.			.08			.10	.85		.18		1.03	.40		.01	T.										.01		.03	3.45	
Indiana	Conemaugh							.03	.01	T.		.66	.35	.71	.39	.39	1.41		.01	.01	.02	T.								.02		.28	4.80	
Ingram	Ohio	.31	.20					.03	.01	T.		.66	.35	.71	.39	.39	1.41		.01	.01	.02	T.								.02		.28	4.80	
Irwin	Youghiogheny		.38	T.				.05				.56	.62	.64	.46	.06	.58		T.	T.	.02	T.								.08		.12	3.57	
Johnstown	Conemaugh	.12	.30		.09			.32	.01	.02		.72	.74	.38	.26	.10	.50		.03	.02	.05	.03	.01	.02		.01				.05	T.	.37	4.15	
Kregar	Youghiogheny	.03	.27		T.			.22	.02		.10	.47	.13	.91		.07	.28		.09	.04	.14	T.								.07		.16	2.26	
Linesville	Beaver	1.85						.01	.13	.01		.09	.15	.17	1.32		.63	.40		.11	.26	.04	.01	.01	.01					.36	.07	.34	5.97	
Lock No. 4	Monongahela	.18	.02	.27				.04			.14	.86	.15	.54		.55	.37	.01	.02	.01	.02	T.								.04	.01	.08	3.31	
Lycippus	Conemaugh	.09	.37		T.			.16	T.		.21	.95	.67	.33	.10	.47					.04	T.	T.							.12	.17	.13	3.81	
Mount Lebanon	Ohio	.15	.20			T.	T.				.61	.46	.78	.24	.30	1.13		T.	.04	T.										.05		.22	4.26	
New Castle	Beaver	1.32	T.	T.				.12	T.		.47	.32	.32	1.55	.01	.33	.50	T.	.05	.05	.05	T.								.23	.03	.21	5.56	
Newell	Monongahela	.01	.23	.03							.13	.80	.20	.38		.40	.05	.05	.05												.14		2.52	
Parkers Landing	Allegheny	.70		.05		T.		T.	.30	T.		.30	.85	.35	1.60		1.30	.55	T.	.05	.05	T.	T.							.32	.05	.20	6.67	
Pennline	Beaver	1.78						.09	.01	T.				1.18		T.	.38	.07		.17	T.									.33	.43	.45	4.89	
Pittsburgh	Ohio		.16		T.			.02	.05		.62	.13	.69	.01	.54	.78		T.	.01	T.	.02	T.								.01	T.	.14	3.16	
Ridgway	Allegheny	.35	.14	.19				.34	.20		.09	.31	.54	.67	.02	1.17	.15	.01	.01	.06	.01	.01	.01	.01	.01		.02			.34		.29	4.94	
Saegertown	Allegheny																																	
Saltsburg	Conemaugh	.20	.05	.20				.05	T.		.15	.85	.13	1.26		.41	.42	T.	.05	.01										.09	T.	.05	3.92	
Sharon	Beaver	2.26									.05	.50	.05	2.14		.80	.27		.02	.11										.07	T.	.10	6.37	
Somerset	Youghiogheny	.08	.54		.16			.10	.30	.03		.41	.01	.34	.95		.15		.03		.03		.08							.03	.02	.22	4.43	
Springdale	Allegheny	.49	T.	.22				.12	.03		.10	.95	.13	1.15		.98	.61		.02	.01	.01									.02	.02	.07	4.93	
Tionesta	Allegheny	.20	.10	T.				.45	T.	T.		.40	.20	2.00	T.	1.00		T.	T.	.30			.10	.10						.10	T.	.40	4.55	
Uniontown	Monongahela	.33	.36		T.			.04	T.		.33	.66	.32	.82	.02	.58		T.	.03	.02	T.									.04	.02	.42	3.99	
Unity Reservoir	Youghiogheny	.18	.28					.10	.17		.47	.81	.60	.46	.05	.60			.09												*		4.31	
Vandergrift	Conemaugh		.22					.02	.05		.84	.12	1.11		.49	.89																	\$	\$
Warren	Allegheny	.10						.03			.35	.07	.60	.69	.15	.88			.20	.32										.34	.20	.28	4.31	
Washington	Ohio	T.	.20					.15	T.		.96	.15	.38	.03	.42	.65		.01	T.	.02	T.									.01	T.	.09	3.07	
Westford	Beaver	1.92							T.		.22			1.96		.72	.41		.12	.11	.03									.36	.30	.08	6.23	
West Newton	Youghiogheny	.12	.04	.28				.03			.09	.93	.31	.51		.36	.44		.02	.02	.08									.02		.09	3.84	
Zelienople	Ohio	.61		.06				.21	T.		.17	.75	.38	1.41	.01	1.20	.30	T.		.02	T.									.20	.02	.18	5.52	
Lake Drainage.																																		
Erie	Lake Erie	T.		T.			.02	.06	.18	.06	T.	.18	.19	1.07	.08	.11	.44	.10	.22	.20	.01	.06	T.	T.	T.					.03	.09	.45	1.05	4.60
West Bingham	Genesee																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of

Daily Temperatures for December, 1927

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	45	42	38	36	42	43	60	61	25	36	42	51	60	57	38	47	34	30	34	39	38	38	38	26	39	32	45	48	44	43	58	42.2	
	Minimum	40	32	32	20	20	31	29	34	15	15	15	32	40	40	33	31	26	23	17	17	32	32	28	19	15	20	16	21	22	37	37	26.5	
Altoona.....	Maximum	69	35	35	28	37	46	48	55	17	34	39	51	63	61	42	37	28	28	17	26	29	31	29	27	32	28	37	40	48	53	46	38.7	
	Minimum	30	24	27	15	19	21	32	17	5	8	30	38	45	42	28	25	17	13	6	13	26	26	22	20	5	11	18	18	34	35	38	22.8	
Beaver Dam.....	Maximum	49	39	37	31	43	49	59	52	20	38	49	49	63	63	48	48	30	31	25	32	32	38	36	29	28	39	40	53	53	54	41.5		
	Minimum	30	28	27	19	21	20	35	15	7	12	33	40	40	41	33	26	20	22															
Brookville.....	Maximum	34	34	30	33	38	45	57	43	18	37	45	54	61	53	39	40	29	18	25	32	31	36	30	27	30	37	33	39	45	43	50	37.3	
	Minimum	21	25	14	14	20	14	30	2	2	1	18	39	51	24	25	18	12	8	5	24	24	19	21	1	-2	1	7	5	31	31	17	16.8	
Butler.....	Maximum	50	34	32	31	40	50	58	52	24	37	48	47	62	62	58	48	46	29	27	21	31	31	36	27	25	25	40	42	52	54	54	41.1	
	Minimum	30	26	26	18	25	19	36	22	7	17			44	46	46	29	24	16	12	7	18	29	26	23	8	15	15	14	41	45	41	25.0 ^b	
Carlisle.....	Maximum	64	36	38	32	47	55	50	57	30	42	36	47	50	61	56	38	40	32	30	38	40	48	42	42	48	38	48	45	45	43	43	43.7	
	Minimum	36	30	29	20	27	26	28	30	12	10	30	34	41	35	27	32	22	15	22	26	32	28	27	14	14	14	13	33	34	38	25.8		
Catawissa.....	Maximum	68	35	34	30	46	51	62	45	26	38	42	46	62	59	44	43	34	29	33	36	34	44	38	30	37	30	41	48	44	43	50	41.8	
	Minimum	35	26	31	17	20	27	27	18	10	10	10	31	39	40	26	27	22	15	13	30	31	30	25	12	8	10	14	15	35	32	34	23.2	
Chambersburg.....	Maximum	65	34	37	31	45	45	46	56	24	38	36	56	57	66	43	39	35	34	24	34	37	43	37	37	36	34	44	44	51	47	41	41.8	
	Minimum	32	30	31	22	26	23	28	24	11	10	27	36	43	43	29	31	23	24	14	22	33	30	25	24	13	12	13	17	33	33	37	25.8	
Claysville.....	Maximum	54	36	35	32	43	49	60	64	20	44	48	54	64	65	40	55	31	29	20	28	31	35	31	29	26	26	43	44	55	56	55	42.1	
	Minimum	28	28	25	20	23	23	39	15	4	12	34	46	53	44	32	21	16	14	5	16	22	25	23	20	9	5	14	19	42	40	34	24.2	
Clearfield.....	Maximum	62	46	35	26	35	42	50	56	17	37	46	48	61	60	44	42	34	26	26	32	33	38	37	31	34	32	36	37	45	51	48	40.2	
	Minimum	35	25	26	16	22	16	34	17	4	6	34	44	45	36	38	26	21	12	16	26	30	26	14	23	9	6	16	34	35	34	23.8		
Coatesville.....	Maximum	66	41	39	29	38	44	50	59	27	35	45	57	54	62	44	49	33	32	26	36	39	38	32	31	35	32	40	45	47	48	55	42.2	
	Minimum	32	28	27	20	27	22	25	24	12	6	21	42	43	36	26	30	18	17	15	21	33	27	24	18	12	12	12	14	35	37	38	24.3	
Corry.....	Maximum	41	35	32	32	38	47	52	48	16	32	40	43	60	59	38	39	25	23	24	31	31	36	31	23	29	25	40	40	46	46	49	37.1	
	Minimum	24	19	20	12	23	25	33	12	4	5	10	36	40	35	27	18	15	8	7	23	28	24	21	15	14	3	16	16	37	39	32	20.7	
Emporium.....	Maximum	45	33	34	26	37	42	50	56	18	38	46	49	59	63	40	41	28	26	22	32	35	35	32	25	28	25	35	42	50	51	48	38.4	
	Minimum	24	23	20	16	25	22	32	15	8	4	32	43	42	30	24	23	20	11	10	22	31	24	24	11	0	11	9	11	38	35	34	21.7	
Erie.....	Maximum	32	38	31	34	39	45	57	58	15	32	44	55	62	49	44	42	25	16	32	33	33	36	32	28	26	27	40	46	51	46	52	38.7	
	Minimum	27	27	19	16	27	31	40	10	9	15	32	39	48	34	32	22	15	13	30	30	26	25	20	20	17	21	28	42	39	24	25.5		
Franklin.....	Maximum	35	38	36	29	41	47	59	22	20	34	47	61	62	41	43	42	29	19	30	32	32	27	25	23	26	21	39	48	52	51	50	37.5	
	Minimum	27	22	25	13	14	20	20	19	5	5	18	33	38	40	27	31	14	8	6	7	28	25	24	22	14	7	7	15	17	32	36	20.0	
Freeland.....	Maximum	56	37	32	24	32	38	44	53	16	29	38	47	55	57	36	36	25	22	18	29	27	34	32	22	22	31	43	43	48	50	54	35.4	
	Minimum	24	22	18	11	22	25	28	16	2	6	25	33	38	35	25	22	14	9	6	14	22	23	22	5	4	10	10	22	31	38	36	19.9	
Gettysburg.....	Maximum	65	39	38	32	42	48	45	45	32	36	36	56	59	64	42	41	37	34	28	36	39	44	37	36	36	35	45	46	50	51	48	42.8	
	Minimum	36	30	29	21	26	30	30	29	12	12	30	35	42	50	32	33	22	25	15	22	34	32	27	26	16	17	15	18	34	35	38	27.5	
Greensburg.....	Maximum	68	36	35	29	41	49	62	61	18	43	47	51	63	63	44	46	29	20	24	30	31	28	26	27	28	38	43	53	55	55	41.0		
	Minimum	31	28	27	20	26	26	42	15	6	14	34	47	47	42	31	23	16	16	7	19	21	27	23	22	5	8	15	20	41	37	38	25.0	
Grove City.....	Maximum	40	36	33	26	40	46	54	57	24	34	44	45	60	60	43	44	33	24	19	32	30	40	33	25	26	25	37	40	48	49	50	38.6	
	Minimum	28	25	25	11	22	23	41	14	4	12	29	40	45	40	37	21	14	8	5	8	27	22	23	16	13	8	19	20	37	34	43	23.0	
Hamburg.....	Maximum	65	45	54	40	39	44	47	58	29	32	47	53	63	63	51	43	39	26	24	34	37	40	34	43	42	40	40	46	44	46	46	43.7	
	Minimum	38	30	38	20	25	24	27	29	12	9	28	34	40	39	27	30	24	15	15	23	30	26	26	18	15	15	20	16	33	33	38	25.7	
Harrisburg.....	Maximum	63	39	39	31	44	49	54	61	24	36	36	48	51	64	41	40	35	33	29	38	38	42	36	32	30	29	43	45	48	44	46	41.5	
	Minimum	35	29	24	21	23	34	34	20	14	16	32	35	45	41	34	28	25	23	17	29	35	33	29	19	17	20	23	26	37	37	35	28.3	
Hawley.....	Maximum	63	33	32	25	35	45	47	57	30	40	47	43	60	40	33	34	23	28	28	31	31	25	29	26	37	44	46	43	48	48	37.5		
	Minimum	31	22	24	15	19	22	26	30	12	8	28	35	31	40	27	25	19	11	12	20	26	26	16	8	8	5	17	12	35	34	35	21.9	
Huntingdon.....	Maximum	69	34	35	29	43	50	49	58	22	38	37	53	54	67	48	40	34	32	22	33	35	39	34	31	32	33	43	41	47	47	43	41.0	
	Minimum	34	26	28	19	19	22	26	21	9	6	29	36	43	47	24	29	23	18	11	22	33	31	23	26	6	8	9	16	34	32	36	24.0	
Indiana.....	Maximum																																	
	Minimum																																	
Johnstown.....	Maximum	61	35	34	29	40	46	54	58	19	42	52	52	65	63	41	41	30	30	20	28	30	33	29	26	28	28	40	39	48	53	52	40.2	
	Minimum	30	20	24	19	28	26	34	16	8	12	38	48	49	37	33	23	19	17	8	20	28	28	25	20	8	13	16	20	36	37	32	25.2	
Lancaster.....	Maximum	37	48	45	30	43	53	49	59	42	38	38	47	54	63	57	47	58	40	33	34	34	58	36	28	32	44	44	48	50	46			

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXII. ANNUAL SUMMARY, 1927. No. 13.

GENERAL SUMMARY.

The year as a whole was marked by a moderate excess in both temperature and precipitation, while the crop growing season, April to September inclusive, was deficient in both. January was mostly seasonable, and the only event of importance during the month was a moderate flood in the Pittsburgh river district. This was followed by unusually mild conditions in February, the excess in temperature over the normal being 7.3°. However the snowfall was much heavier than the February average. March was also a mild month, although the temperature excess was not so great as for February. The snowfall in March was very light. At the end of the month the wheat fields were green, and were mostly in good condition. There was some winter killing of late sown wheat on heavy soils. April was generally seasonable excepting a cold period with frosts near the end of the month. Field work made good progress, but crop growth was a little slow in starting. Wheat fields generally improved, and many that were more or less spotted at the end of March filled in and presented a fairly good appearance at the end of April. Alfalfa wintered well, and was unusually promising. There was some winter killing of clover on heavy soils. Oats seeding was well advanced in the southern counties at the close of the month, and corn ground was being plowed and prepared for planting. May weather was generally seasonable until the last week which was intensely cold with frosts that killed considerable tender vegetation and damaged orchard fruits. The growth of truck crops was effectually checked. Wheat, alfalfa, and pastures made a good growth. June was among the coldest on record, being surpassed only by those of 1903, 1907, and 1916. Light frosts occurred in some places on the 2d and again on the 16th. Corn and truck crops grew slowly, but wheat and the hay crops did well. The first cutting of hay was good in yield and quality. Wheat was turning color at the end of the month, and the crop was promising. Orchard fruits were in poor condition. July was a month of seasonable temperatures with a moderate excess in rainfall. The excess was just enough to balance the accumulated deficiency for the year to that time. Crop conditions generally improved during the month. A good crop of wheat was harvested early in the month, and later some of it was damaged in the fields by heavy rains. Oats harvest was in full swing when the heavy rains occurred, and most of the grain was more or less discolored. August was the coolest on record, and was very unfavorable for late corn. Early planted corn matured in fairly good condition, but ears did not form on late corn and much of it was harvested for ensilage. The second cutting of hay was unusually heavy. Truck crops did fairly well. Pastures were excellent. September furnished a moderate excess in temperature but a large deficiency in rainfall. Much fair weather was favorable for field work. Potatoes and late truck crops were good. October and November were warm and rainy, the rainfall for October averaging practically twice the normal amount. The fields were muddy and plowing and wheat seeding were difficult. December showed a moderate excess in both temperature and precipitation. A disagreeable sleet storm occurred on the 4th, and delayed traffic for about 36 hours. The year as a whole was favorable for all crops excepting corn and orchard fruits. The hay crop was one of the heaviest on record.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature		Precipitation		Year	Temperature		Precipitation	
	Highest	Lowest	Greatest total	Least total		Highest	Lowest	Greatest total	Least total
1888.....	100	-31	.....	.....	1909.....	100	-19	48.79	27.91
1889.....	96	-27	.....	.....	1910.....	99	-22	51.45	31.08
1890.....	101	-18	.....	.....	1911.....	105	-18	67.61	29.25
1891.....	100	-14	64.00	32.21	1912.....	100	-35	50.95	33.08
1892.....	103	-28	54.63	32.07	1913.....	102	-9	56.06	32.48
1893.....	102	-25	58.56	30.62	1914.....	101	-28	54.33	33.40
1894.....	103	-23	57.43	28.17	1915.....	99	-26	61.96	31.05
1895.....	104	-26	40.80	21.17	1916.....	103	-31	58.50	23.56
1896.....	101	-21	53.52	32.29	1917.....	105	-29	60.60	26.27
1897.....	103	-25	55.16	19.83	1918.....	108	-34	58.30	31.55
1898.....	107	-16	56.95	34.07	1919.....	104	-23	58.70	26.27
1899.....	101	-39	51.13	28.36	1920.....	99	-21	62.91	30.08
1900.....	104	-23	55.68	25.73	1921.....	104	-15	50.96	26.27
1901.....	107	-22	56.83	29.81	1922.....	100	-19	52.84	23.75
1902.....	100	-24	65.05	29.79	1923.....	103	-20	55.80	30.21
1903.....	99	-17	57.16	35.90	1924.....	102	-25	55.47	25.95
1904.....	99	-42	56.72	31.05	1925.....	104	-29	57.03	30.06
1905.....	99	-25	59.38	33.53	1926.....	105	-20	63.93	32.88
1906.....	99	-21	61.56	32.55	1927.....	100	-24	.....	.....
1907.....	98	-23	64.05	31.79					
1908.....	104	-29	50.26	26.72					

MONTHLY STATE DATA FOR 1927

Month	Temperature					Precipitation				
	Mean	Highest sta. mean	Lowest sta. mean	Highest	Lowest	Average	Greatest	Least	Greatest in 24 hrs.	Average snow
January.....	27.4	32.6	19.9	61	-24	2.90	8.28	0.76	3.73	5.7
February.....	35.0	40.6	27.4	69	-8	3.48	5.94	1.25	2.25	16.5
March.....	42.0	46.5	34.6	82	-6	2.61	5.43	0.69	1.75	0.7
April.....	47.7	52.0	41.2	92	17	3.52	5.59	1.65	2.65	1.0
May.....	58.2	62.2	51.0	92	23	4.14	7.23	1.75	2.63	0
June.....	63.8	69.2	55.6	99	25	3.72	6.78	1.59	3.40	0
July.....	71.7	76.6	62.6	100	29	4.97	11.82	1.81	8.04	0
August.....	65.5	70.4	59.2	92	34	4.12	11.49	1.13	4.04	0
September.....	64.9	70.0	56.8	97	27	2.08	7.00	0.20	6.60	0
October.....	55.6	60.5	49.0	99	21	6.40	11.91	1.58	3.84	0.1
November.....	46.2	51.2	40.6	85	10	4.95	11.36	2.21	3.24	1.8
December.....	32.7	38.9	26.5	73	-6	4.41	8.93	2.16	2.94	4.5
Year.....	50.9	76.6	19.9	100	-24	47.30	11.91	0.20	8.04	30.3

KILLING FROSTS OR FREEZING TEMPERATURE

Stations			Stations		
Last in spring	First in autumn		Last in spring	First in autumn	
Allentown.....	Apr. 25	Nov. 7	Lancaster.....	May 2	Oct. 15
Altoona.....	May 1	do. 5	Lawrenceville.....	do. 29	Sept. 24
Beaver Dam.....	May 2	Oct. 15	Lebanon.....	Apr. 28	Nov. 7
Bethlehem.....	Apr. 24	Nov. 7	Lewisburg.....	May 1	do. 5
Brookville.....	June 16	Sept. 20	Lock Haven.....	Apr. 26	do. 7
Bustleton.....	Apr. 25	Oct. 31	Lycippus.....	do. 28	do. 3
Butler.....	May 27	do. 9	Lykens.....	May 28	Sept. 24
Carlisle.....	Apr. 26	do. 26	Mauch Chunk.....	Apr. 29	do. 25
Catawissa.....	May 1	do. 16	Mifflintown.....	May 1	Nov. 5
Center Hall.....	June 16	Sept. 22	Montrose.....	do. 28	Oct. 14
Chambersburg.....	May 1	Oct. 15	Mount Pocono.....	do. 23	do. 10
Claysville.....	do. 1	Sept. 22	Muncy Valley.....	.....	Sept. 24
Clearfield.....	do. 28	Oct. 16	Narberth.....	Apr. 25	Nov. 5
Coatesville.....	do. 28	Nov. 5	Neshaminy Falls.....	do. 26	Oct. 26
Colebrook.....	Apr. 25	Sept. 24	New Castle.....	May 1	do. 17
Corry.....	May 28	Oct. 17	Newell.....	Apr. 25	Nov. 4
Derry.....	do. 1	Sept. 22	Palmerton.....	do. 29	Oct. 11
Ebensburg.....	do. 28	do. 22	Philadelphia.....	Mar. 28	Nov. 7
Elk Lick.....	do. 28	Oct. 9	Phoenixville.....	Apr. 25	Sept. 24
Emporium.....	June 6	Nov. 6	Pittsburgh.....	do. 28	Nov. 6
Ephrata.....	Apr. 26	do. 13	Quakertown.....	do. 26	Oct. 11
Erie.....	do. 23	Sept. 24	Reading.....	do. 11	Nov. 7
Franklin.....	May 1	Oct. 15	Saegertown.....	June 15	Sept. 24
Freeland.....	do. 1	do. 31	Scranton.....	Apr. 26	Oct. 24
George School.....	Apr. 28	Nov. 7	Selinsgrove.....	May 1	Nov. 5
Gettysburg.....	do. 25	Sept. 24	Sharon.....	Apr. 24	Oct. 15
Gordon.....	June 2	do. 22	Shawmont.....	do. 25	Nov. 7
Gouldsboro.....	May 29	Oct. 15	Somerset.....	June 27	Sept. 22
Greensburg.....	Apr. 25	do. 9	State College.....	May 28	do. 24
Greenville.....	June 2	Sept. 23	Stroudsburg.....	Apr. 29	do. 24
Grove City.....	May 28	Oct. 16	Towanda.....	May 8	Oct. 11
Hamburg.....	Apr. 26	Nov. 7	Uniontown.....	do. 1	Nov. 6
Hanover.....	do. 25	do. 6	Vandergrift.....	do. 1	Oct. 17
Harrisburg.....	Mar. 28	Sept. 24	Warren.....	do. 28	do. 9
Hawley.....	May 29	Nov. 8	Wellsboro.....	do. 29	Sept. 22
Holtwood.....	Mar. 30	Oct. 26	West Bingham.....	July 5	.....
Huntingdon.....	May 28	do. 15	West Chester.....	Apr. 25	.....
Hyndman.....	do. 1	Nov. 6	Williamsport.....	May 1	Oct. 30
Johnstown.....	Apr. 26	.....	York.....	Apr. 25	do. 15

Climatological Data for the Year 1927

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Number days with .01 or more	Sky			Prevailing direction of wind	
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month		Total snowfall (unmelted)	Number clear days	Number partly cloudy days		Number cloudy days
Atlantic Drainage.																				
Allentown	Lehigh	254	15	51.4	97	July 13	0	Jan. 27	16	48.72	7.49	Aug.	1.44	Mar.	.....	137	209	113	43	s.
Altoona	Blair	1,615	31	49.4	92	June 30†	-3	do. 16†	40	52.04	7.38	Oct.	3.00	Jan.	57.0	163	182	66	117	w.
Bethlehem	Northampton	295	24	52.8	95	July 31†	-2	do. 27	41	43.77	6.33	Dec.	1.03	Sept.	20.5	116	180	83	102	nw.
Carlisle	Cumberland	467	61	53.4	99	Oct. 1	0	do. 27	39	47.72	8.51	Oct.	1.74	do.	38.5	123	187	58	120	s.
Catawissa	Columbia	520	31	50.2	96	July 13†	-4	do. 27	31	44.26	7.19	do.	0.88	do.	21.7	127	186	60	119	.....
Chambersburg	Franklin	580	28	52.0	92	June 29†	5	do. 27	27	47.15	7.64	do.	0.76	do.	23.4	134	132	89	144	s.
Clearfield	Clearfield	1,120	17	.....	98	July 1†	-4	do. 27	18	54.51	6.56	Nov.	2.48	do.	61.0	148	148	96	121	w.
Coatesville	Chester	380	40	51.7	94	do. 14	-2	do. 27	40	44.48	6.40	do.	1.09	Mar.	22.6	132	.....	.....	.....	.....
Colebrook	Lebanon	560	12	50.7	97	do. 13†	-1	do. 27	18	46.84	8.00	do.	1.90	Jan.	19.3	139	166	53	146	w.
Emporium	Cameron	1,050	40	47.8	99	June 29†	-14	do. 9	40	56.18	6.84	Nov.	1.24	Sept.	45.5	136	142	89	134	w.
Ephrata	Lancaster	380	27	52.2	96	July 13	2	do. 27	27	45.90	7.15	July	1.39	Mar.	.....	129	135	90	140	w.
Freeland	Luzerne	1,970	8	46.8	93	do. 14	-14	do. 27	12	58.97	10.65	Oct.	1.60	Sept.	60.7	167	97	114	154	nw.
George School	Bucks	190	21	53.0	95	do. 15	0	do. 27	21	46.32	7.87	do.	1.03	Mar.	17.6	113	201	69	95	s.
Gettysburg	Adams	600	52	53.6	96	July 14	3	Jan. 27	54	43.66	9.34	Oct.	1.40	Sept.	20.0	133	128	123	114	w.
Gordon	Schuylkill	840	24	48.9	94	do. 13	-6	do. 27	24	52.94	9.57	do.	1.73	Jan.	30.7	127	160	62	143	n.
Gouldsboro	Wayne	1,875	4	44.6	91	do. 13	-6	do. 16	13	49.48	9.14	do.	1.89	Apr.	50.3	129	160	75	130	w.
Hamburg	Berks	535	34	50.8	95	do. 13†	0	do. 27	34	.....	6.29	do.	0.94	Sept.	.....	.....	.....	.....	.....	w.
Hanover	York	600	24	.....	93	do. 14	3	do. 27	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Harrisburg	Dauphin	361	40	52.7	94	do. 13	2	do. 27	58	38.99	7.78	Oct.	1.98	Mar.	17.0	133	82	103	180	nw.
Hawley	Wayne	900	9	47.8	95	do. 13†	-16	do. 9	9	50.23	9.36	do.	2.19	do.	.....	120	161	96	108	nw.
Holtwood	Lancaster	200	8	53.3	93	do. 14	3	do. 27	12	36.46	5.23	do.	1.00	do.	.....	124	129	118	118	.....
Huntingdon	Huntingdon	650	40	51.2	97	June 30†	-1	do. 27	40	47.84	6.09	do.	2.42	Sept.	37.5	160	139	69	157	w.
Hyndman	Bedford	977	15	52.8	98	July 13	3	do. 16†	15	39.67	7.03	do.	1.32	do.	29.0	136	101	103	161	.....
Lancaster	Lancaster	255	25	52.5	96	do. 13†	1	do. 27	40	47.65	7.00	Sept.	1.83	Mar.	.....	117	201	95	69	w.
Lawrenceville	Tioga	1,000	30	48.7	94	do. 13†	-14	do. 27	30	40.02	7.14	July	0.50	Sept.	42.5	105	153	75	137	.....
Lebanon	Lebanon	469	39	51.6	100	do. 13	1	do. 27	87	42.80	8.17	Oct.	1.78	Jan.	16.6	131	182	80	103	nw.
Lewisburg	Union	450	52	51.6	99	June 29	-2	Jan. 27	53	47.57	7.59	Oct.	0.79	Sept.	34.5	146	140	81	144	w.
Lock Haven	Clinton	580	39	52.5	99	July 13	-5	do. 27	39	42.49	5.28	Nov.	0.66	do.	40.5	124	127	113	125	sw.
Lykens	Dauphin	680	13	51.1	97	do. 14	-3	do. 27	13	55.29	11.82	July	1.70	Mar.	11.5	135	181	82	102	nw.
Mauch Chunk	Carbon	600	38	49.7	98	do. 13	-5	do. 27	38	56.67	9.03	Oct.	1.18	Sept.	15.2	135	72	171	122	w.
Mifflintown	Juniata	445	24	50.9	94	Sept. 15	0	do. 27	24	50.15	8.23	do.	1.95	do.	38.4	138	159	40	166	w.
Montrose	Susquehanna	1,658	25	47.5	90	July 14	-9	do. 27	24	46.03	9.10	do.	1.25	Feb.	54.0	113	114	93	158	s.
Muncy Valley	Sullivan	1,045	16	.....	95	June 29	-10	do. 27	16	46.71	7.61	do.	0.93	Sept.	.....	109	146	108	111	w.
Narberth	Montgomery	300	8	53.0	94	July 13†	1	do. 27	9	45.20	6.83	do.	1.34	Mar.	15.7	143	.....	.....	.....	sw.
Neshaminy Falls	Bucks	60	13	51.1	97	do. 13	-2	do. 17	13	45.16	7.53	do.	1.00	do.	15.8	118	194	75	96	w.
Palmerton	Carbon	398	9	50.5	97	do. 13	-1	do. 27	11	43.16	6.78	June	0.99	Sept.	16.5	130	154	119	92	sw.
Philadelphia	Philadelphia	114	56	55.5	95	Sept. 15	4	do. 27	56	43.15	7.27	Aug.	1.11	Mar.	7.7	128	101	108	156	sw.
Philadelphia-Gtn.	Philadelphia	113	3	55.7	95	June 29†	4	do. 27	3	43.61	7.10	do.	0.98	do.	12.0	120	133	115	117	.....
Phila. Navy Yard	Philadelphia	12	12	54.6	94	July 13†	4	do. 27	12	43.78	7.76	do.	1.23	do.	6.9	129	.....	.....	.....	.....
Phila. Pt. Breeze	Philadelphia	90	3	55.3	95	July 14	4	Jan. 27	3	41.68	7.01	Aug.	1.34	Mar.	8.1	121	87	148	130	w.
Phoenixville	Chester	100	17	.....	97	do. 13†	1	do. 17†	17	50.08	7.95	Oct.	0.80	do.	9.7	98	194	116	55	sw.
Quakertown	Bucks	496	41	50.9	96	do. 13†	-1	do. 27	43	47.93	7.71	do.	1.23	do.	18.4	141	135	106	124	nw.
Reading	Berks	325	50	53.4	96	do. 13	3	do. 27	58	38.16	4.61	do.	1.40	do.	20.8	140	105	116	144	nw.
Scranton	Lackawanna	805	32	49.6	94	do. 13	-6	do. 27	33	45.33	9.16	do.	1.45	Sept.	26.6	143	86	103	176	s.
Selinsgrove	Snyder	455	38	50.9	94	do. 13†	-1	do. 27	39	40.87	6.70	do.	0.64	do.	18.0	124	159	99	107	sw.
Shawmont	Philadelphia	51	11	.....	93	July 13†	4	do. 27	32	43.73	6.14	July	1.12	Mar.	12.3	118	136	115	114	nw.
State College	Center	1,217	40	50.0	94	do. 13	-4	do. 27	43	47.93	6.33	Oct.	1.96	Sept.	33.6	142	106	144	115	w.
Stroudsburg	Monroe	500	12	49.4	94	do. 13	-5	do. 9†	13	54.05	7.48	Aug.	1.36	do.	18.9	125	170	91	104	nw.
Towanda	Bradford	754	33	48.1	94	do. 14	-12	do. 27	33	37.12	6.70	Oct.	0.86	do.	40.0	144	115	96	154	s.
Wellsboro	Tioga	1,419	48	46.4	94	June 29†	-15	do. 27	63	32.88	6.19	Nov.	0.20	do.	49.5	105	235	49	81	w.
Williamsport	Lycoming	521	38	50.4	98	do. 29†	-6	do. 27	41	44.04	8.32	Oct.	0.64	do.	29.5	139	147	79	139	nw.
York	York	400	28	52.9	99	July 13†	-5	do. 16	40	41.23	9.12	do.	1.36	Jan.	21.0	127	173	104	88	e.
Ohio Drainage.																				
Beaver Dam	Beaver	700	14	.....	95	Sept. 15	-1	Jan. 16	35	48.86	6.78	July	2.20	Sept.	.....	173	71	100	194	sw.
Claysville	Washington	1,150	24	53.3	98	July 1	-2	do. 16	24	46.71	6.17	Nov.	1.34	do.	29.2	156	167	52	146	s.
Corry	Erie	1,430	16	47.8	91	Oct. 2	-15	do. 27	16	51.49	9.17	do.	2.17	do.	94.6	201	137	104	124	.....
Derry	Westmoreland	1,172	31	52.1	92	July 13†	-1	do. 16	31	56.05	8.28	Jan.	2.59	do.	38.6	141	125	140	100	w.
Ebensburg	Cambria	2,000	10	48.2	89	June 30†	1	do. 15†	10	50.69	6.63	Oct.	2.93	do.	40.0	132	143	103	119	w.
Franklin	Venango	957	34	48.2	95	July 1	-6	do. 16	55	46.73	7.06	Dec.	2.47	do.	27.5	154	125	48	192	w.
Greensburg	Westmoreland	1,150	20	52.6	94	do. 13	-1	do. 16	20	50.68	6.96	Oct.	2.25	do.	40.5	166	113	101	151	w.
Greenville	Mercer	950	31	49.2	96	June 30†	-8	Jan. 16	30	39.11	6.88	Nov.								

Monthly and Annual Precipitation for the Year 1927, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
DELAWARE BASIN.																										
Allentown.....	2.56	-1.09	3.03	+0.02	1.44	-2.54	3.18	-0.66	3.55	-0.07	5.53	+2.09	3.04	-2.01	7.49	+3.14	1.64	-1.71	6.84	+3.43	3.88	+1.48	6.54	+2.69	48.72	+4.77
Bethlehem.....	2.54	-1.07	1.94	-1.55	1.30	-2.34	1.96	-1.19	3.33	-0.39	4.54	+0.37	3.88	-0.68	6.01	+1.69	1.03	-2.36	5.66	+2.43	5.28	+2.17	6.33	+2.83	43.77	-0.09
Bustleton.....	2.51	-1.46	3.84	-0.26	1.09	-3.27	3.46	-0.17	2.63	-0.97	3.34	-0.70	3.98	-1.04	4.48	+0.05	3.00	-0.90	6.40	+2.88	4.90	+1.71	4.42	+0.20	44.48	-3.93
Coatesville.....	2.25	-1.60	3.31	-0.90	2.68	-3.38	3.25	-0.73	1.99	-0.14	2.72	-1.28	5.90	+1.04	4.34	+3.08	2.46	-1.49	7.51	+3.53	4.80	+1.50	4.48	+0.46	48.90	-0.32
Conshohocken.....	2.06	-1.60	2.55	-1.31	0.69	-3.38	3.25	-0.73	3.87	-0.14	2.72	-1.28	5.90	+1.04	4.34	+3.08	2.46	-1.49	7.51	+3.53	4.80	+1.50	4.48	+0.46	48.90	-0.32
Doylestown.....	3.29	-0.91	3.41	-0.94	2.94	-3.93	3.93	-0.69	5.69	-0.14	4.65	-1.51	5.15	-0.40	4.34	+3.08	2.46	-1.49	7.51	+3.53	4.80	+1.50	4.48	+0.46	48.90	-0.32
Freeland.....	2.16	-0.91	3.18	+0.08	1.03	-2.43	2.39	-1.21	3.24	-0.37	3.38	+0.15	6.94	+2.56	7.31	+2.71	2.35	-0.67	7.87	+4.62	2.67	-0.04	3.80	-0.01	46.32	+4.48
George School.....	3.85	+0.61	2.18	-1.55	2.71	-0.55	1.89	-2.81	4.93	+0.88	3.96	-0.77	5.27	-0.40	4.74	-0.44	2.19	-1.13	9.14	+5.69	4.62	+1.79	4.00	+0.89	49.48	+2.21
Graterford.....	1.96	-0.92	2.80	-0.86	2.99	-3.93	3.93	-0.69	5.69	-0.14	4.65	-1.51	5.15	-0.40	4.34	+3.08	2.46	-1.49	7.51	+3.53	4.80	+1.50	4.48	+0.46	48.90	-0.32
Hamburg.....	2.84	-0.92	2.22	-1.17	1.63	-2.51	3.51	-0.74	3.95	-0.55	3.77	-0.45	4.57	-0.14	3.21	-0.44	0.94	-3.26	6.29	+2.23	5.03	+2.17	4.71	+0.86	47.93	.....
Hamlin.....	2.33	-0.92	3.26	-0.25	2.59	-3.00	3.00	-0.23	5.23	-0.38	3.80	-0.77	5.27	-0.40	4.74	-0.44	2.19	-1.13	9.14	+5.69	4.62	+1.79	4.00	+0.89	49.48	+2.21
Hawley.....	2.44	-0.92	3.01	-0.94	2.99	-3.93	3.93	-0.69	5.69	-0.14	4.65	-1.51	5.15	-0.40	4.34	+3.08	2.46	-1.49	7.51	+3.53	4.80	+1.50	4.48	+0.46	48.90	-0.32
Lansford.....	2.50	-0.88	2.66	-0.25	1.70	-1.81	2.79	-0.94	3.91	+0.46	4.01	-0.22	4.74	-0.08	6.90	+2.14	0.93	-2.89	9.67	+5.38	5.74	+3.43	4.68	+1.00	50.23	+5.45
Mauch Chunk.....	2.54	-1.24	3.30	-0.57	2.32	-2.18	3.69	-0.23	3.75	-0.26	6.28	+1.98	3.65	-1.45	7.63	+2.66	1.18	-2.69	9.03	+5.27	6.90	+3.57	6.40	+2.16	56.67	+7.02
Mount Pocono.....	2.34	-0.92	3.35	-0.25	1.70	-1.81	2.79	-0.94	3.91	+0.46	4.01	-0.22	4.74	-0.08	6.90	+2.14	0.93	-2.89	9.67	+5.38	5.74	+3.43	4.68	+1.00	50.23	+5.45
Narberth.....	1.93	-0.88	2.82	-0.57	1.34	-2.18	2.91	-1.51	2.51	-0.23	3.61	-0.32	4.74	-0.08	6.90	+2.14	0.93	-2.89	9.67	+5.38	5.74	+3.43	4.68	+1.00	50.23	+5.45
Neshaminy Falls.....	1.82	-1.53	3.62	+0.24	1.11	-2.34	3.66	+0.75	1.75	-1.45	3.48	+0.18	4.50	+0.17	7.27	+2.66	2.59	-0.79	5.71	+2.61	3.59	+0.53	3.99	+0.95	43.15	+1.98
Palmerton.....	2.69	-0.92	3.74	-0.24	2.44	-2.48	4.82	-0.75	3.72	-1.45	3.48	+0.18	4.50	+0.17	7.27	+2.66	2.59	-0.79	5.71	+2.61	3.59	+0.53	3.99	+0.95	43.15	+1.98
Paupack.....	1.88	-1.53	3.62	+0.24	1.11	-2.34	3.66	+0.75	1.75	-1.45	3.48	+0.18	4.50	+0.17	7.27	+2.66	2.59	-0.79	5.71	+2.61	3.59	+0.53	3.99	+0.95	43.15	+1.98
Philadelphia.....	2.06	-1.53	3.66	-0.98	3.35	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26
Philadelphia-Gtn.....	2.06	-1.53	3.66	-0.98	3.35	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26	2.44	-2.26	2.26	-2.26
Phila. Navy Yard.....	2.00	-1.53	2.61	-1.23	3.79	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12	3.47	-2.12
Phila-Point Breeze.....	2.11	-1.85	3.52	-0.69	1.34	-2.85	3.83	-0.86	2.92	-1.04	3.28	-0.38	7.84	+2.80	6.73	+2.21	3.37	+0.29	7.95	+5.15	4.99	+2.27	4.95	+1.73	50.08	+6.78
Phoenixville.....	2.10	-1.85	3.52	-0.69	1.34	-2.85	3.83	-0.86	2.92	-1.04	3.28	-0.38	7.84	+2.80	6.73	+2.21	3.37	+0.29	7.95	+5.15	4.99	+2.27	4.95	+1.73	50.08	+6.78
Pleasant Mount.....	2.43	-1.00	2.53	-1.00	1.10	-2.77	3.15	-0.06	2.50	-1.87	3.78	-0.03	5.09	-0.35	5.03	+1.10	3.21	-0.12	6.62	+3.53	4.41	+1.19	4.66	+0.99	44.51	-0.39
Pottstown.....	2.67	-1.26	3.56	-0.01	2.02	-2.09	3.57	-0.09	3.92	-0.44	4.54	+0.26	4.52	-0.52	2.28	-2.98	1.78	-2.12	9.36	+5.33	4.04	+0.75	6.35	+2.31	48.61	-0.84
Pottsville.....	2.30	-0.87	2.96	-1.13	1.23	-2.48	3.04	-0.19	3.35	-0.67	3.19	-0.47	4.28	-0.54	6.88	+2.59	1.35	-2.31	7.71	+4.34	5.86	+2.70	5.79	+2.25	47.98	+3.22
Promised Land.....	2.62	-0.87	2.63	-1.13	1.23	-2.48	3.04	-0.19	3.35	-0.67	3.19	-0.47	4.28	-0.54	6.88	+2.59	1.35	-2.31	7.71	+4.34	5.86	+2.70	5.79	+2.25	47.98	+3.22
Quakertown.....	2.40	-1.12	3.00	-0.50	1.40	-2.14	2.73	-0.49	2.73	-0.64	4.39	+0.72	6.82	-0.40	3.99	-0.49	2.08	-1.57	4.61	+1.35	2.63	-0.49	4.38	+1.06	38.16	-4.71
Reading.....	1.65	-1.60	3.40	+0.22	1.12	-2.55	2.31	-0.86	2.46	-1.00	3.06	-0.41	6.14	+1.55	6.13	+1.00	2.87	-0.36	5.85	+2.51	4.38	+1.50	4.36	+0.47	43.78	+0.47
Shawmont.....	3.66	-0.92	4.20	-0.50	2.19	-3.55	5.06	-0.67	4.07	-0.55	5.05	-0.41	6.15	-0.41	6.13	+1.00	2.87	-0.36	5.85	+2.51	4.38	+1.50	4.36	+0.47	43.78	+0.47
Snow Hill.....	2.66	-0.92	4.32	-0.24	3.00	-6.22	3.55	-0.67	4.07	-0.55	5.05	-0.41	6.15	-0.41	6.13	+1.00	2.87	-0.36	5.85	+2.51	4.38	+1.50	4.36	+0.47	43.78	+0.47
South Sterling.....	2.06	-1.88	3.39	-1.75	3.03	-4.26	4.23	-0.38	6.79	-1.75	6.79	-1.75	6.79	-1.75	6.79	-1.75	6.79	-1.75	6.79	-1.75	6.79	-1.75	6.79	-1.75	6.79	-1.75
Stroudsburg.....	1.96	-1.88	2.68	-1.22	0.91	-3.16	4.38	+0.60	2.60	-1.85	4.06	-0.13	6.78	+1.95	55.75	.....	3.21	-0.71	6.29	+2.55	.....	.....	5.35	.....	54.05	.....
West Chester.....	3.00	+0.50	3.43	+1.32	3.99	+1.29	4.51	+1.64	5.41	+1.39	3.68	-0.24	4.85	+1.58	4.21	+0.82	3.57	+0.79	7.38	+4.89	4.74	+2.83	3.27	+0.92	52.04	+17.73
Westgrove.....	1.33	-1.08	2.12	+0.09	2.44	+0.17	2.51	-1.13	4.51	+0.63	2.94	-1.21	3.21	-0.01	8.05	+0.30	0.44	-2.77	5.37	+2.16	6.86	+5.09	3.49	+1.61	38.27	+3.35
ALTOONA BASIN.																										
Altoona.....	2.76	-0.92	4.96	-0.26	2.77	-3.86	4.30	-0.75	4.71	-1.43	6.48	-0.18	5.62	-0.47	4.47	-0.98	1.20	-0.68	7.95	+4.89	4.74	+2.83	3.27	+0.92	52.04	+17.73
Ansonia.....	1.33	-1.08	2.12	+0.09	2.44	+0.17	2.51	-1.13	4.51	+0.63	2.94	-1.21	3.21	-0.01	8.05	+0.30	0.44.									

Monthly and Annual Precipitation for the Year 1927, with Departures from the Normal.—Continued

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure.	Precipitation.	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
Coudersport	1.84	.....	2.84	.....	3.57	.....	3.22	.....	5.39	.....	1.87	.....	3.46	.....	2.76	.....	0.74	.....	5.45	.....	7.77	.....	4.11	.....	43.02	.....
Creekside	5.74	.....	3.33	.....	4.53	.....	4.05	.....	5.13	.....	3.08	.....	7.62	.....	2.55	.....	2.91	.....	5.66	.....	5.71	.....	5.15	.....	53.36	.....
Cresson	2.74	.....	4.72	.....	4.03	.....	4.15	.....	3.12	.....	3.64	.....	5.42	.....	2.77	.....	3.60	.....	7.19	.....	3.92	.....	3.36	.....	48.66	.....
Derry	3.28	+4.37	4.32	+1.31	4.27	+0.21	4.35	+0.63	4.17	+0.72	5.43	+0.58	4.73	-0.10	2.96	-1.21	2.59	-0.22	6.25	+3.00	4.94	+2.37	3.76	+0.46	56.05	+12.14	
Donora	4.05	.....	3.65	.....	3.31	.....	3.66	.....	3.68	.....	3.59	.....	3.79	.....	3.73	.....	2.07	.....	6.07	.....	4.32	.....	2.67	.....	43.92	.....
Ebensburg	4.05	.....	3.71	.....	4.16	.....	4.13	.....	4.07	.....	4.03	.....	4.59	.....	4.44	.....	2.93	.....	6.63	.....	4.22	.....	3.73	.....	50.69	.....
Elk Lick	4.16	.....	.....	.....	3.80	.....	.....	.....	7.23	.....	5.56	.....	4.94	.....	4.11	.....	1.56	.....	6.00	.....	3.37	.....	4.10	.....	.....	.....
Falls Creek	4.15	.....	4.16	.....	4.33	.....	4.50	.....	4.52	.....	3.70	.....	3.91	.....	2.43	.....	3.96	.....	6.53	.....	5.74	.....	5.74	.....	50.69	.....
Franklin	3.36	-0.26	2.87	-0.02	3.97	+0.52	3.11	+0.08	4.38	+0.89	2.60	-2.17	5.77	+1.29	2.50	-1.30	2.47	-1.02	2.52	-0.59	6.12	+3.11	7.06	+3.74	46.73	+4.27	
Freeport	5.35	+1.50	3.42	+0.26	4.36	+0.73	4.33	+1.01	4.06	+0.18	2.77	-1.49	7.30	+3.12	5.92	+2.20	1.80	-1.07	3.90	+1.01	5.12	+2.23	5.06	+1.68	53.39	+11.36	
Greensburg	4.59	+0.84	5.13	+2.27	3.61	+0.81	4.30	+0.65	3.81	+0.08	4.70	+0.60	3.92	+0.13	2.92	-1.45	2.25	-0.95	6.96	+3.83	4.92	+2.96	5.57	+0.42	50.68	+10.19	
Greenville	2.56	-1.16	2.24	-0.35	3.79	+0.13	2.63	-0.64	4.67	+1.07	3.17	-1.04	3.72	-0.64	1.83	-1.93	1.25	-1.97	2.16	-1.49	6.88	+1.18	4.21	+1.22	39.11	-2.62	
Grove City	4.00	+0.68	2.60	+0.26	3.27	+0.24	2.18	-1.85	6.17	+2.37	3.08	-0.96	5.46	+1.24	3.15	-0.52	2.70	-0.38	2.76	-0.82	6.91	+4.74	8.93	+6.08	51.41	+11.11	
Herrs Island Dam	4.05	+1.00	4.79	+2.41	3.56	+0.06	3.37	+0.30	4.22	+1.40	3.51	-0.67	7.85	+4.38	1.86	-1.56	2.28	+0.08	4.35	+1.64	5.25	+3.48	3.45	+0.64	48.54	+13.00	
Indiana	4.76	+0.83	.....	.....	4.09	.....	3.68	.....	3.75	.....	4.36	.....	3.36	.....	6.90	.....	2.29	.....	2.19	.....	4.60	.....	6.20	.....	4.80	.....
Ingram	4.03	.....	.....	.....	4.03	.....	3.68	.....	3.75	.....	4.36	.....	3.36	.....	6.90	.....	2.29	.....	2.19	.....	4.60	.....	6.20	.....	4.80	.....
Irwin	3.63	+0.64	3.66	+1.41	2.65	-0.89	3.39	+0.04	3.47	+0.23	3.86	-0.79	4.03	-0.13	2.04	-2.03	1.36	-1.41	4.50	+1.67	3.84	+1.58	3.57	+0.62	40.05	+0.94	
Johnstown	4.75	+0.42	4.94	+2.19	4.66	+0.62	4.01	+0.05	4.38	-0.21	4.94	-0.25	7.87	+3.47	3.51	-1.04	3.98	+0.48	7.03	+4.04	4.49	+1.57	4.15	+0.50	59.67	+11.84	
Kregar	1.95	.....	5.80	.....	4.27	.....	4.18	.....	5.02	.....	5.14	.....	9.64	.....	3.41	.....	1.63	.....	8.85	.....	5.60	.....	4.28	.....	62.86	.....
Linesville	1.95	.....	2.36	.....	2.62	.....	4.05	.....	5.41	.....	2.64	.....	4.34	.....	2.50	.....	2.32	.....	2.58	.....	5.38	.....	5.97	.....	42.12	.....
Lock No. 4	3.89	+0.70	4.41	+1.63	3.12	-0.18	3.82	+0.65	3.21	-0.46	3.38	-0.63	3.50	-0.85	3.62	0.0	1.74	-1.04	5.82	+3.05	4.93	+2.53	3.31	+0.42	44.75	+5.88	
Lycippus	5.15	+1.11	5.67	+2.63	3.80	+0.06	4.19	+0.41	2.87	-1.09	4.47	-0.02	5.61	+0.57	4.14	-0.17	1.82	-1.21	7.00	+3.95	6.00	+3.04	3.31	+0.12	54.16	+9.40	
Mt. Lebanon	4.01	.....	3.57	.....	3.75	.....	4.02	.....	3.86	.....	3.80	.....	6.38	.....	2.89	.....	2.46	.....	5.13	.....	5.94	.....	4.26	.....	50.07	.....
New Castle	3.83	+0.92	4.30	-0.02	3.55	+0.80	2.39	-0.54	4.10	+0.80	4.18	-0.26	3.54	-0.60	2.01	-1.20	2.09	-1.05	2.34	-0.40	4.54	+2.38	5.56	+3.10	40.52	+3.93	
Newell	3.66	.....	4.79	.....	2.92	.....	3.08	.....	2.50	.....	4.15	.....	3.45	.....	2.10	.....	0.91	.....	5.25	.....	4.21	.....	2.52	.....	39.45	.....
Parkers Landing	4.63	+1.27	4.33	+1.25	3.57	-0.01	2.47	-1.09	4.10	+0.28	3.21	-1.13	5.40	+1.06	3.42	-0.75	4.41	+1.11	3.21	+0.33	6.80	+3.95	6.67	+3.49	52.27	+9.76	
Pennline	1.94	.....	1.83	.....	2.66	.....	3.55	.....	5.90	.....	2.75	.....	5.68	.....	2.70	.....	3.84	.....	2.31	.....	5.00	.....	4.89	.....	42.95	.....
Pittsburgh	3.52	+0.65	3.97	+1.31	3.20	+0.19	3.15	+0.25	3.74	+0.44	2.77	-1.12	6.34	+1.92	1.86	-1.32	2.18	-0.30	4.09	+1.73	5.18	+2.63	3.16	+0.43	43.16	+6.81	
Ridgway	1.46	-1.91	2.38	-0.65	2.60	-0.80	3.55	+0.21	5.47	+1.02	2.32	-2.03	5.82	+1.57	2.47	-1.66	2.29	-1.26	2.14	-1.46	.....	.....	5.02	+1.80	6.47	+3.83
Saegertown	4.50	+0.72	3.85	+0.86	3.92	+0.73	3.90	+0.57	3.93	+0.87	3.62	-0.40	4.87	+0.92	3.80	-0.10	2.82	-0.51	6.31	+3.14	4.58	+2.48	3.92	+0.62	50.07	+9.59	
Saltsburg	2.52	.....	1.93	.....	4.29	.....	1.90	.....	4.14	.....	2.63	.....	5.49	.....	3.04	.....	1.37	.....	1.58	.....	4.31	.....	6.37	.....	39.57	.....
Sharon	3.84	-0.92	1.93	+1.95	1.90	-2.44	5.03	+0.39	3.94	-1.08	4.38	-0.76	4.65	+0.21	5.14	+0.42	2.18	-1.49	6.22	+3.10	3.98	+0.53	4.48	+0.53	51.67	+0.43	
Somerset	4.52	+0.84	3.88	+1.36	4.07	+0.66	3.66	+0.33	3.18	+0.62	2.81	-1.45	7.07	+3.28	3.12	-1.19	2.10	-1.09	4.53	+1.21	3.95	+3.32	4.93	+1.76	50.22	+9.70	
Springdale	4.99	+1.14	5.22	+2.09	3.70	-0.26	4.85	+1.10	4.30	+0.23	4.28	-0.63	3.87	-1.19	2.61	-2.22	1.20	-1.98	6.48	+3.27	4.89	+1.78	3.99	+0.39	50.38	+3.72	
Uniontown	5.41	.....	5.44	.....	4.17	.....	4.26	.....	4.09	.....	5.45	.....	4.56	.....	3.83	.....	1.70	.....	7.25	.....	4.63	.....	4.31	.....	55.10	.....
Unity Reservoir	4.95	.....	.....	.....	3.70	.....	3.39	.....	4.10	.....	2.52	.....	7.83	.....	3.45	.....	3.25	.....	4.68	.....	5.51	.....	3.33	+6.00	4.31	+1.20
Vandergrift	2.06	-0.87	3.34	+0.65	3.73	+0.60	4.12	+0.61	6.04	+1.59	2.96	-1.36	5.05	+0.22	2.63	-1.47	1.21	-2.42	3.68	+0.23	9.33	+6.00	4.31	+1.20	48.42	+4.98	
Warren	3.06	.....	4.52	.....	3.20	.....	3.96	.....	4.28	.....	4.84	.....	4.49	.....	2.72	.....	1.37	.....	4.67	.....	5.95	.....	3.07	.....	37.08	.....
Washington	1.47	.....	1.62	.....	2.27	.....	2.46	.....	4.28	.....	3.21	.....	4.07	.....	1.72	.....	2.36	.....	2.34	.....	5.05	.....	6.23	.....	37.08	.....
Westford	4.14	+0.65	4.25	+1.19	3.28	-0.35	3.69	+0.87	4.31	+0.75	3.62	-0.53	3.39	-1.10	3.37	-0.58	1.82	-0.78	5.35	+2.66	4.47	+2.15	3.34	+0.05	45.03	+4.48	
West Newton	4.30	.....	2.82	.....	3.85	.....	3.00	.....	5.08	.....	5.12	.....	7.07	.....	4.50	.....	3.22	.....	3.14	.....	5.97	.....	5.52	.....	53.59	.....
Zelenople	4.30	.....	2.82	.....	3.85	.....	3.00	.....	5.08	.....	5.12	.....	7.07	.....	4.50	.....	3.22	.....	3.14	.....	5.97	.....	5.52	.....	53.59	.....
POTOMAC BASIN																											
Chambersburg	1.87	-0.72	4.34	+1.43	2.46	-0.54	5.09	+2.25	3.04	-0.61	4.71	+0.70	5.58	+2.30	3.51	-0.73	0.76	-1.98	7.64	+4.44	4.62	+1.97	3.53	+0.91	47.15	+9.42	
Gettysburg	1.56	-1.58	3.07	+0.26	1.73	-1.43	5.59	+1.99	3.33	-0.64	3.76	-0.14	4.68	+1.06	2.97	-1.10	1.40	-1.97	9.34	+6.14	2.23	-0.44	4.00	-0.67	43.66	+2.82	
Hyndman	1.69	-1.91	4.18	+1.44	2.09	-1.26	4.42	+0.85	2.84	-0.36	3.79	-1.53	3.71	+0.60	3.08	-1.20	1.32	-1.84	7.03	+4.17	3.19	+1.65	2.33	-0.54	39.67	+0.07	
LAKE BASIN																											
Erie	1.89	-1.14	2.54	-0.31	2.25	-0.41	2.47	+0.07	3.73	+0.30	1.59	-2.16	4.83	+1.62	1.21	-2.05	1.92	-1.57	3.33	-0.45	8.78	+5.17	4.60	+1.54	39.16	+0.61	
West Bingham	2.00	-0.46	3.33	+1.51	3.13	+0.43	.....	.....	5.59	+1.60	2.34	-1.65	4.49	+0.74	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Monthly and Annual Mean Temperatures for the Year 1927, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic Drainage.																										
Allentown.....	52.8	.....	34.4	.....	41.8	.....	48.2	.....	57.8	.....	65.4	.....	73.4	.....	66.8	.....	65.4	.....	56.5	.....	45.5	.....	34.4	.....	51.4	.....
Altoona.....	25.8	-1.5	34.6	+8.8	41.2	+3.9	45.7	-2.5	57.6	-1.8	62.2	-4.0	69.3	-1.8	62.8	-6.8	63.2	+0.5	55.0	+3.1	44.6	+3.8	30.8	+1.8	49.4	+0.3
Arendtsville.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bethlehem.....	29.0	-0.9	36.8	+7.0	43.9	+4.3	48.0	-3.9	59.1	-3.9	66.8	-3.0	74.3	-0.4	67.6	-6.1	66.0	-0.2	57.2	+1.7	48.8	+4.8	35.8	+2.7	52.8	+0.2
Bustleton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carlisle.....	29.7	+1.8	36.0	+6.6	44.0	+6.5	49.8	-2.4	60.6	-0.8	67.0	-3.9	75.2	+0.4	69.2	-3.5	68.4	+3.7	59.0	+6.7	47.6	+6.9	34.8	+3.5	53.4	+2.1
Catawissa.....	26.8	-1.3	33.9	+4.8	41.0	+3.4	46.6	-4.7	57.8	-3.6	64.3	-3.4	71.4	-1.3	65.0	-5.3	63.1	-0.4	54.8	+1.2	45.4	+3.0	32.5	+0.9	50.2	-0.6
Center Hall.....	23.9	-1.5	30.7	+4.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg.....	29.5	+0.8	35.7	+4.9	44.0	+5.6	48.2	-1.6	59.7	-1.5	65.0	-4.4	72.2	-2.5	66.8	-5.4	65.8	-0.1	56.4	+3.6	46.4	+5.0	33.8	+0.9	52.0	+0.5
Clearfield.....	24.4	-2.5	35.4	+7.9	41.0	+3.5	48.0	-0.3	58.6	-1.2	62.6	-4.7	72.0	+0.5	67.2	-2.7	62.4	+0.4	54.6	+3.2	45.1	+5.2	27.9	-1.1	.....	.....
Coatesville.....	27.6	-2.8	34.6	+4.7	42.7	+3.3	49.5	-1.3	59.1	-2.6	66.0	-3.9	74.0	-0.7	66.8	-2.9	65.4	-0.7	55.0	+0.7	46.2	+3.3	33.2	+0.2	51.7	-0.2
Colebrook.....	27.0	+0.5	34.2	+4.4	41.8	+1.2	46.6	-3.3	57.4	-1.6	63.7	-5.4	71.7	-0.8	65.8	-4.8	65.0	+0.9	55.7	+2.7	46.3	+5.3	33.1	+1.2	50.7	0.0
Emporium.....	23.9	-1.9	32.2	+7.5	39.0	+4.0	44.4	-2.7	56.2	-2.5	60.5	-5.7	68.1	-2.1	62.2	-5.7	61.2	-0.2	52.0	+2.0	44.2	+5.0	30.0	+0.9	47.8	-0.1
Ephrata.....	29.4	+0.1	36.0	+7.9	43.4	+4.4	48.6	-1.4	58.8	-2.1	65.8	-2.2	73.6	-0.4	67.2	-4.6	65.4	-0.1	56.0	+0.9	47.8	+5.4	34.8	+3.5	52.2	+0.9
Freeland.....	20.2	.....	30.6	.....	37.2	.....	43.2	.....	54.6	.....	61.4	.....	69.6	.....	63.0	.....	61.3	.....	51.8	.....	41.7	.....	27.6	.....	46.8	.....
George School.....	29.6	-1.2	36.6	+6.9	42.9	+3.7	49.4	-0.7	60.1	-0.9	66.0	-1.7	74.1	+0.5	68.2	-3.2	66.6	+1.7	57.3	+2.4	48.7	+6.1	36.4	+4.1	53.0	+1.5
Gettysburg.....	30.8	+1.8	37.6	+7.3	45.1	+5.9	50.0	-0.4	60.2	-1.1	67.9	-1.7	74.2	+0.2	69.0	-2.7	67.0	+2.0	57.2	+5.0	48.6	+7.3	35.2	+3.5	53.6	+2.3
Gordon.....	26.3	-0.1	33.1	+7.8	39.0	+3.1	45.6	-2.3	55.3	-3.2	61.8	-3.4	69.4	-0.8	63.4	-4.8	62.2	+0.4	53.0	+2.3	45.2	+6.2	32.0	+3.5	48.9	+0.8
Gouldsboro.....	21.7	.....	28.6	.....	34.6	.....	41.2	.....	52.0	.....	58.6	.....	65.8	.....	59.2	.....	56.8	.....	49.0	.....	40.7	.....	26.5	.....	44.6	.....
Hamburg.....	26.9	-1.8	35.3	+6.5	41.2	+2.8	47.0	-3.4	57.2	-4.5	63.8	-5.7	72.2	-1.7	66.4	-5.3	64.6	-0.9	55.0	+1.1	45.6	+3.4	34.7	+2.7	50.8	-0.6
Hanover.....	30.6	-2.3	37.8	+6.1	44.2	+2.6	48.6	-4.4	59.8	-4.1	66.0	-4.7	73.5	-1.9	67.2	-6.4	65.5	-1.7	57.8	+1.7	49.6	+5.4	.....	.....	.....	.....
Harrisburg.....	29.6	+0.6	36.6	+6.4	43.8	+4.9	49.1	-1.8	59.4	-2.4	66.3	-4.0	74.2	-0.6	67.6	-5.0	66.8	+1.0	57.4	+2.6	47.1	+4.3	34.9	+2.2	52.7	+0.6
Hawley.....	23.2	.....	30.8	.....	38.0	.....	44.8	.....	54.6	.....	62.3	.....	69.8	.....	63.8	.....	61.0	.....	52.2	.....	43.6	.....	29.7	.....	47.8	.....
Holtwood.....	29.4	.....	36.8	.....	43.8	.....	49.4	.....	59.7	.....	66.4	.....	74.2	.....	68.6	.....	67.9	.....	59.0	.....	48.5	.....	36.2	.....	53.3	.....
Huntingdon.....	28.0	-0.6	35.3	+6.9	42.7	+4.4	47.6	-2.0	59.6	-1.1	64.2	-4.0	72.0	-0.2	65.4	-5.3	64.6	+0.3	56.2	+3.7	46.6	+5.1	32.5	+1.0	51.2	+0.7
Hyndman.....	30.6	+0.9	37.2	+7.1	44.7	+4.8	48.7	-2.2	61.6	+9.2	68.4	-2.6	73.4	+1.4	67.4	-3.5	67.1	+2.6	57.2	+3.9	47.2	+5.2	34.2	+2.1	52.8	+2.4
Lancaster.....	31.4	+1.8	38.2	+8.4	45.4	+7.4	49.5	-1.3	58.8	-2.2	65.2	-4.9	72.7	-0.7	67.6	-5.1	64.5	0.0	55.4	+2.0	47.1	+4.0	34.7	+1.3	52.5	+0.9
Lawrenceville.....	23.4	-1.2	31.8	+8.8	38.8	+4.8	45.1	-0.7	55.8	-1.7	62.6	-2.6	69.6	-0.6	64.4	-3.7	62.7	+1.4	53.6	+3.1	44.3	+5.6	31.8	+4.4	48.7	+1.5
Lebanon.....	27.8	-1.2	34.8	+6.1	42.4	+3.8	47.9	-2.6	58.2	-2.8	65.9	-3.4	73.8	-0.2	66.8	-5.2	65.5	+0.3	56.3	+3.1	46.1	+3.9	33.4	+1.5	51.6	+0.3
Lewisburg.....	26.7	+1.3	34.4	+8.6	41.9	+6.6	48.4	+0.2	58.6	+0.1	66.4	-0.8	74.6	+3.1	67.1	-6.3	65.4	+3.4	55.6	+5.4	46.4	+7.3	32.9	+3.9	51.6	+3.2
Lock Haven.....	27.6	+0.2	35.8	+8.7	43.6	+5.8	50.4	+0.1	61.2	-0.7	67.6	-1.8	74.4	+1.1	67.2	-4.1	66.0	+1.3	56.0	+2.7	46.7	+4.8	33.4	+2.3	52.5	+1.7
Lykens.....	27.5	+0.3	35.4	+8.3	42.3	+2.8	48.0	-2.7	58.0	-1.1	63.6	-4.6	71.7	-0.1	65.6	-4.6	64.5	+0.3	55.2	+1.8	47.4	+6.4	34.2	+3.5	51.1	+0.6
Mauch Chunk.....	26.4	-1.0	33.5	+6.5	40.8	+4.0	46.6	-2.2	57.3	-2.8	64.0	-3.8	69.6	-2.7	65.2	-5.1	63.5	-0.5	54.3	+2.0	44.3	+3.7	31.2	+0.7	49.7	-0.1
Midlinton.....	28.7	+1.1	35.4	+8.7	42.6	+4.6	48.0	-1.8	58.8	-1.9	64.0	-3.8	71.8	-0.9	63.8	-6.8	64.2	+0.4	55.5	+3.1	45.8	+5.2	32.6	+2.4	50.9	+0.8
Montrose.....	24.1	+1.6	29.2	+8.9	37.4	+6.3	45.0	+0.9	53.2	-1.8	61.5	-1.2	68.4	+0.2	62.9	-4.0	61.7	+0.7	53.7	+4.7	44.2	+7.3	29.0	+3.4	47.5	+2.3
Mount Pocono.....	.....	.....	.....	.....	34.6	+2.6	38.6	-4.4	52.0	-2.7	57.8	-3.8	64.6	-1.6	59.4	-4.8	59.4	+1.3	52.7	+5.3	41.8	+6.0	.....	.....	.....	.....
Muncy Valley.....	23.2	-1.3	33.4	+7.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.3	-4.4	60.9	-0.5	49.1	-1.5	42.7	+3.5	30.2	+2.5	.....	.....
Narberth.....	30.1	.....	37.4	.....	43.8	.....	48.4	.....	59.9	.....	66.8	.....	74.0	.....	67.9	.....	66.4	.....	57.0	.....	48.4	.....	35.7	.....	53.0	.....
Neshaminy Falls.....	27.2	-0.4	34.7	+5.6	41.4	+1.9	46.8	-3.3	58.0	-1.3	65.0	-4.2	73.2	+0.1	66.4	-4.6	64.8	-0.6	55.8	+1.8	46.0	+4.5	33.8	+2.0	51.1	+0.1
Palmerston.....	27.8	.....	34.0	.....	41.6	.....	46.0	.....	56.4	.....	64.8	.....	72.6	.....	65.2	.....	64.2	.....	54.4	.....	46.0	.....	32.8	.....	50.5	.....
Philadelphia.....	32.6	0.0	40.6	+6.7	46.4	+5.6	50.9	-1.2	61.6	-1.3	68.6	-2.8	75.8	-0.4	70.2	-4.6	69.4	+1.4	60.4	+2.6	50.9	+5.2	38.9	+2.6	55.5	+1.1
Philadelphia-Gtn.....	32.6	.....	40.4	.....	46.5	.....	50.9	.....	61.9	.....	69.2	.....	76.3	.....	70.4	.....	69.2	.....	60.5	.....	51.2	.....	38.8	.....	55.7	.....
Phila-Navy Yard.....	30.8	.....	38.5	.....	44.8	.....	49.8	.....	60.8	.....	67.8	.....	76.0	.....	69.8	.....	68.9	.....	59.6	.....	50.0	.....	38.0	.....	54.6	.....
Phila-Point Breeze.....	31.2	.....	39.8	.....	45.9	.....	50.4	.....	61.6	.....	68.8	.....	76.6	.....	70.2	.....	69.8	.....	60.1	.....	50.4	.....	38.8	.....	

COOPERATIVE AND RAINFALL OBSERVERS

Stations	Observers	Stations	Observers	Stations	Observers
Allentown.....	John A. Frick.	Gordon.....	Capt. J. G. Johnson.	Philadelphia.....	U. S. Weather Bureau.
Altoona.....	Louis E. Biller.	Gouldsboro.....	Gustav Holtz.	Philadelphia-Gtn.....	Julius Bernstein.
Ansonia.....	Paul H. Mulford.	Graterford.....	C. K. Kulp.	Philadelphia.....	(Commandant, Navy
Arendtsville.....	Dr. S. W. Frost.	Greensburg.....	Westmoreland Water Co.	Navy Yard	Yard.
Bakers Summit.....	M. Snyder.	Greenville.....	J. R. Marks.	Phila. Point Breeze.....	Atlantic Refining Co.
Beaver Dam.....	F. H. McCullough.	Grove City.....	Prof. H. W. Harmon.	Phoenixville.....	N. Springfield Water Co.
Beaver Falls.....	U. S. Engineer.	Hamburg.....	State Sanatorium.	Pine Grove.....	East Penn. Electric Co.
Bethlehem.....	Lehigh University.	Hamlin.....	Penn. Power & Light Co.	Pittsburgh.....	U. S. Weather Bureau.
Bloersville.....	A. G. Mountz.	Hanover.....	Mrs. Mabel Wolcott.	Pleasant Mount.....	G. W. Buller.
Bradford.....	Bradford Electric Co.	Harrisburg.....	U. S. Weather Bureau.	Pottstown.....	J. Ernest Spare
Brookville.....	John Fawcett.	Hawley.....	J. S. Pennell.	Pottsville.....	John H. Strauch.
Bustleton.....	Agr. Experiment Station.	Herr's Island Dam.....	U. S. Engineer.	Promiseland.....	Penn. Power & Light Co.
Butler.....	The Butler Eagle.	Holtwood.....	H. W. Lowy, C. E.	Quakertown.....	John E. Benner.
Carlisle.....	Clarence E. Miller.	Huntingdon.....	Prof. W. J. Swigart.	Reading.....	U. S. Weather Bureau.
Catawissa.....	H. H. Yetter.	Hyndman.....	John S. Madore.	Renovo.....	H. L. Baird.
Center Hall.....	S. W. Smith.	Indiana.....	Frank M. Smith.	Ridgway.....	West Penn. Power Co.
Chambersburg.....	Wm. B. Spear.	Ingram.....	W. R. Gormly.	Saegertown.....	Arthur Helmbrecht.
Claysville.....	J. L. Melvin.	Irwin.....	W. F. Gallagher.	Saltsburg.....	Thomas M. Duncan.
Clearfield.....	E. W. Hoss, C. E.	Johnstown.....	E. C. Lorentz.	Scranton.....	U. S. Weather Bureau.
Cloe.....	Frank McElwain.	Kegonsa.....	I. A. Knupp.	Sharon.....	Dr. George E. Fisher.
Clymer.....	Thomas Fleitz.	Lancaster.....	Supt. Water Works.	Shawmont.....	H. H. Gerber.
Coatesville.....	W. T. Gordon.	Lansford.....	Lehigh Coal & Nav. Co.	Snow Hill.....	Winfield S. Guiles.
Colebrook.....	William A. Rorer.	Lawrenceville.....	C. B. Darling.	Somerset.....	G. L. Dormy.
Confluence.....	Grant Fyle.	Lebanon.....	S. B. Benzing.	South Sterling.....	Penn. Public Service Co.
Conshohocken.....	Russell C. Erb.	Lewisburg.....	Prof. Wm. G. Owens.	Springdale.....	Penn. Power & Light Co.
Coraopolis.....	U. S. Engineer.	Linesville.....	Water Supply Com.	Stroudsburg.....	U. S. Engineer.
Corry.....	F. W. Kendig.	Lloyd.....	M. L. Fish.	State College.....	C. A. Kern.
Coudersport.....	John E. Lewis.	Lock Haven.....	Joseph A. Beaver.	State Normal School.....	Chas. E. Frymoyer.
Creekside.....	W. P. Linnan.	Lock No. 4.....	U. S. Engineer.	Sunbury.....	Hiram E. Bull, C. E.
Cresson.....	Ted R. Wineman.	Lycippus.....	Westmoreland Water Co.	Towanda.....	Wm. W. Marsteller.
Derry.....	Donora Zinc Works.	Lykens.....	Susquehanna Coal Co.	Uniontown.....	Westmoreland Water Co.
Donora.....	Geo. Hart.	Mauch Chunk.....	R. K. Wintermute.	Unity Reservoir.....	H. R. Belding.
Doylestown.....	Walter Leach.	Mifflintown.....	Wellington Smith.	Vandergrift.....	Mrs. Anna Simpson.
Driftwood.....	D. H. Jones.	Montrose.....	Silas Jagger.	Warren.....	G. S. Buchanan.
Ebensburg.....	J. S. Stevanus.	Morris Run.....	Morris Run Mining Co.	Washington.....	David Libby.
Elk Lick.....	T. B. Lloyd.	Mt. Lebanon.....	Fred Hoffman.	Wellington.....	George W. Hill.
Emporium.....	Ira J. Keath.	Mount Pocono.....	Cecil J. Hoskinson.	West Bingham.....	Frank Johnson.
Ephrata.....	U. S. Weather Bureau.	Muncy Valley.....	A. H. Boatman.	West Chester.....	Joseph W. Belt.
Erie.....	J. S. Snell.	Narberth.....	Charles Decker.	Westford.....	C. C. Collins.
Falls Creek.....	L. L. Whipple.	Neshaminy Falls.....	N. Springfield Water Co.	Westgrove.....	Conard-Pyle Co.
Forest City.....	R. A. Fergus.	New Castle.....	New Castle Water Co.	West Newton.....	A. B. Adams.
Franklin.....	Theodore Reichmann.	Newell.....	General Chemical Co.	Wilkes-Barre.....	Milton Wentz.
Freeland.....	Mrs. Anna R. Burtner.	New Park.....	C. J. Allen.	Williamsport.....	Veronica E. April.
Freeport.....	N. W. Swayne.	Palmerton.....	New Jersey Zinc Co.	York.....	C. L. Bott.
George School.....	Dr. Henry Stewart.	Parkers Landing.....	Henry Turk.	York Haven.....	York Haven Water Co.
Gettysburg.....	Girard Water Co.	Paupack.....	Penn. Power & Light Co.	Zelienople.....	J. M. S. Miskimen.
Girardville.....		Penn Line.....	Retta Crumb.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1927



KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

51.05
NFU. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

THE LIBRARY OF THE

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXIII.

JANUARY, 1928.

No. 1

GENERAL SUMMARY.

January was mild except for cold periods near the beginning and near the end of the month respectively. A large temperature excess accumulated from the 6th to the 15th inclusive. The frost went out of the ground, and plowing was reported from many places in nearly all parts of the State. There was much fair weather during the month that was favorable for outdoor pursuits and pastimes, and on the whole it was an unusually pleasant winter month. The winter grains were in fair to good condition at the beginning of the month, and few complaints were received of damage by the first cold period, although there was little or no snow covering on the fields. There was no snow covering on the fields of the southeastern counties until the 28th, when a heavy snowstorm occurred. Coatesville reported 20.0 inches of snow at that time, and many stations reported amounts from 10.0 inches upward. The snowstorm was immediately followed by a moderate cold wave of about 48 hours duration, and the temperature rose to near the normal again at the close of the month. The usual January ice harvest did not materialize to any extent. There were no damaging storms during the month, and the big snowstorm, which delayed traffic to more or less extent, was the only disturbance of consequence. The snowfall for the State as a whole was less than two-thirds of the January normal, and in some of the northern, western, and southwestern counties it was extremely light. However it was fairly heavy in the northwestern counties of Warren, Crawford, and Erie. As a result of the rainfall being generally below the normal, the streams remained at moderate stages throughout the month although the water supply was ample for all needs. Live stock was generally reported to be in good condition and wintering well at the close of the month.

TEMPERATURE.

The mean temperature for the State, as determined from reports of 83 stations, was 29.8°, which is 2.0° above the January normal. The highest monthly mean was 35.6°, at Philadelphia Weather Bureau, while the lowest was 23.5°, at Gouldsboro. The highest temperature recorded during the month was 65°, at George School on the 8th, Arendtsville on the 14th, and also at Newell on the 14th and 15th. The lowest for the State was 23° below zero, at Gouldsboro on the 30th. The greatest daily range of temperature was 48°, at Quakertown on the 30th.

PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from observations taken at 133 stations, was 2.08 inches, a deficiency of 1.25 inches as compared with the monthly normal. The greatest monthly amount was 4.48 inches, at York Haven, and the least was 0.78 inch, at Donora, Greensboro and Wellsboro. The greatest amount recorded in any 24 consecutive hours was 2.00 inches, at Coatesville on the 28-29th. Snowfall for the State averaged 6.8 inches or 4.2 inches less than the normal January amount. The greatest amount for the month was 31.7 inches, at Corry, and the greatest 24-hour snowfall was 20.0 inches at Coatesville on the 28-29th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour			
				8 a m	12 noon.	8 p. m.		Average	Highest	Direction	Date
Erie.....	85.4	295.3	29	78	72	74	13,303	17.9	50	sw.	19
Harrisburg.....	165.1	300.9	55	68	56	62	5,523	7.4	32	sw.	20
Philadelphia.....	175.6	300.9	58	70	63	69	6,999	9.4	29	sw.	25
Pittsburgh.....	81.7	298.2	27	73	64	66	9,302	12.5	60	w.	19
Reading.....	160.4	300.9	53	70	60	63	5,318	7.1	27	w.	25
Scranton.....	129.3	298.2	43	84	70	78	6,142	8.3	29	w.	20

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15	13
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9	10
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16	14
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15	12
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15	12
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14	12
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13	10
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14	13
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14	6
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15	10
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17	13
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11	10
1900.....	29.8	63	-8	2.64	4.37	1.36	8	8	14	10
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15	11
1902.....	25.6	58	-13	2.80	5.15	1.00	8	8	14	9
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17	11
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15	12
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15	12
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13	11
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18	15
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11	9
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16	13
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19	14
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18	13
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16	12
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17	11
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15	13
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14	12
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12	13
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13	12
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9	8
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14	10
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12	10
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10	8
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19	14
1924.....	28.1	65	-13	4.34	6.29	1.70	11	8	12	8
1925.....	25.2	55	-29	3.49	6.68	1.07	11	7	13	10
1926.....	27.8	66	-19	2.80	4.85	1.12	9	9	13	11
1927.....	27.4	61	-24	2.90	8.28	0.76	9	6	16	13
1928.....	29.8	65	-23	2.08	4.48	0.78	12	8	11	9

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.5	4.6	1	2.5	23	18
Phillipsburg.....	Delaware.....	3.4	5.0	2	2.5	27	22
Mauch Chunk.....	Lehigh.....	2.3	1.5	1	2.7	21	12
Wilkes-Barre.....	Susquehanna.....	3.1	4.1	1	1.9	3	20
Williamsport.....	Susquehanna.....	5.0	7.9	1	4.7	19	17
Harrisburg.....	Susquehanna.....	13.0	17.8	26	11.3	16	22
Greensboro.....	Allegheny.....	2.6	6.4	31	1.4	17	20
West Newton.....	Youghiogheny.....	15.4	19.5	21	13.9	16	31
Lock No. 4.....	Monongahela.....	13.5	17.2	2	11.7	31	25
Pittsburgh.....	Ohio.....	11.0	18.0	2	7.4	31	30
Beaver Dam.....	Ohio.....						

Climatological Data for January, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown	Lehigh	254	16	31.9		58	7	-5	30	35	2.61	-1.04	0.95	12.0	8	18	9	4	sw.	John A. Frick.
Altoona	Blair	1,615	41	28.0	+0.7	60	15	-5	30	42	1.85	-0.65	0.87	10.0	8	13	8	10	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	31.4		65	14	3	30	38	0.85		0.75	0.8	5	18	8	5	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	32.2	+2.3	57	1	4	30	46	3.15	-0.43	1.05	11.0	7	20	6	5	nw.	Lehigh University.
Bustleton	Philadelphia	125	9																	Experiment Station.
Carlisle	Cumberland	467	61	31.8	+3.9	61	13	-3	30	34	1.87	-1.25	0.71	3.0	5	20	4	7	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	30.0	+1.9	60	7	-9	30	38	1.95	-1.37	0.80	3.0	7	14	2	15	.....	H. H. Yetter.
Center Hall	Center	1,272	32	26.6	+1.2	58	15	-7	30	37	2.08	-0.47	0.52	4.0	8	17	7	7	.....	S. W. Smith.
Chambersburg	Franklin	580	28	32.5	+3.8	64	13	4	30	37	2.18	-0.41	0.93	2.4	8	12	11	8	w.	William B. Spear.
Clearfield	Clearfield	1,120	14	28.2	+1.3	58	15	-8	30	43	1.45	-2.39	0.75	7.0	5	8	13	10	sw.	E. W. Hess.
Coatesville	Chester	380	40			59	15	-7	30	38	3.73	-0.24	2.00	20.0	10	14	12	5	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	30.0	+3.5	58	7	-2	30	34	2.56	-0.99	0.78	10.3	6	16	6	9	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	27.0	+1.2	58	15	-12	30	33	2.02	-1.51	0.73	3.0	9	7	10	14	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	31.4	+2.1	58	13	-4	30	38	2.71	-0.28	1.14	13.8	8	17	7	7	w.	Ira J. Keath.
Freeland	Luzerne	1,970	13	25.0		54	18	-2	30	44	3.64		0.98	15.6	14	9	6	16	nw.	Theo. Reichmann.
George School	Bucks	190	21	33.0	+2.2	65	8	-6	30	38	1.69	-1.38	0.76	7.3	7	22	4	5	nw.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	33.6	+4.6	63	13	-7	30	33	2.01	-1.13	0.91	2.0	8	15	8	8	w.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	28.6	+2.2	58	7	-16	30	42	2.40	-1.53	1.25	6.0	7	15	5	11	nw.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	23.5		52	13	-23	30	40	1.90	-1.34	0.92	18.0	5	11	10	10	w.	Gustav Holtz.
Hamburg	Berks	535	35	31.1	+2.4	55	8	-8	30	34	2.90	-0.86	1.01	6.0	8	16	9	6	w.	State Sanatorium.
Harrisburg	Dauphin	361	58	32.5	+3.5	60	13	6	30	28	2.65	-0.17	1.02	10.0	9	5	13	13	w.	Mrs. Mabel C. Wolcott.
Hawley	Wayne	900	0	27.7		59	18	-13	30	38	2.23		0.77	7.5	9	12	5	14	nw.	U. S. Weather Bureau.
Holtwood	Lancaster	200	13	32.7		63	14	-2	30	30	2.58	-1.00	0.73	12.0	7	14	10	7	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	40	31.2	+2.6	64	15	-7	30	39	2.03	-1.29	0.71	1.5	10	13	7	11	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	2	32.6	+2.9	64	15	4	21	39	1.70	-1.90	0.67	T	7	10	6	15	.....	John S. Madore.
Lancaster	Lancaster	255	40	31.2	+1.6	62	7	-10	30	40	3.44	+0.19	1.60	16.0	7	23	4	4	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	27.6	+3.0	53	15	-14	30	37	0.82	-1.22	0.42	5.5	5	13	6	12	.....	C. P. Darling.
Lebanon	Lebanon	469	87	30.4	+1.4	60	13	-4	30	36	2.27	-1.32	0.84	10.2	8	14	11	6	nw.	S. B. Benzing.
Lewisburg	Union	450	53	30.2	+4.8	59	15	-8	30	33	1.95	-1.02	0.68	2.0	8	10	6	15	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	30.7	+3.3	53	14	-4	30	28	1.81	-1.46	0.49	2.5	9	7	9	15	sw.	Joseph Beaver.
Lykens	Dauphin	680	13	30.8	+3.6	59	7	-10	30	40	2.16	-1.35	0.80	8.0	11	15	6	10	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	28.8	+1.4	58	7	-10	30	38	2.83	-0.95	0.91	7.0	9	15	4	12	w.	R. K. Wintermute.
Mifflintown	Juniata	445	24	30.8	+3.2	58	13	-4	30	35	1.33	-1.85	0.50	2.0	7	16	1	14	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	25	26.8	+4.3	52	1	-3	30	43	2.32	-0.39	0.98	7.0	9	10	0	21	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24																.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	27.5	+3.0	49	7	-4	27	32	1.84	-1.48	0.90	2.0	6	11	8	12	w.	A. H. Boatman.
Narberth	Montgomery	300	0	32.6		60	15	4	30	41	3.18		1.20	14.1	9	14	7	10	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	39	30.0	+2.4	59	7	-13	30	39	1.94		0.65	9.0	6	21	3	7	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	30.0		58	7	-14	30	39	1.97		0.99	7.6	6	8	17	6	sw	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	35.6	+3.0	61	15	12	2	31	1.91	-1.39	0.84	10.4	7	13	9	9	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	4	35.4		60	15	12	21	34	2.35		1.17	13.0	6	11	12	8	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	34.2	+2.9	61	15	12	21	32	2.06	-1.17	1.01	10.6	7	9	12	10	sw.	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	3	35.0		60	15	12	2	27	2.33		0.98	10.6	8	6	17	8	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	17	32.6	+2.8	61	15	-10	30	38	2.64	-1.31	1.15	11.5	7	20	6	5	sw.	North Springfield Water Co.
Quakertown	Bucks	496	43	30.1	+3.1	55	1	-20	30	48	2.81	-0.68	0.92	10.7	9	10	13	8	w.	John E. Benner.
Reading	Berks	325	58	33.2	+3.8	58	7	1	30	26	3.10	-0.42	1.08	14.9	7	11	13	7	w.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	29.9	+3.3	54	13	6	2	31	1.40	-1.40	0.50	3.2	10	7	5	19	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	30.6	+1.7	60	15	-5	30	33	0.95	-2.17	0.30	4.5	5	12	7	12	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	33.4		58	15	1	30	36	2.66	-0.59	1.02	10.0	6	13	10	8	nw.	W. S. Guiles.
State College	Center	1,217	43	28.2	+1.9	53	13	-3	30	33	2.70	-0.28	1.09	2.4	9	5	19	7	.....	C. A. Kern.
Stroudsburg	Monroe	500	12	28.7	+2.4	58	7	-14	30	37	2.26	-0.96	1.32	9.0	6	15	7	9	nw.	State Normal School.
Towanda	Bradford	754	33	28.6	+3.4	55	15	-3	30	38	1.63	-0.47	0.51	2.4	12	8	7	16	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	25.4	+1.1	61	15	4	30	37	0.78	-1.79	0.39	3.7	9	20	6	5	sw.	George W. Hill.
West Chester	Chester	455	90	32.1	+1.9	61	15	4	30	42	2.85	-0.99	1.40	14.0	6	20	8	3	w.	Joseph W. Belt.
Williamsport	Lycoming	521	41	30.4	+3.1	55	15	-2	30	34	2.16	-0.84	1.02	2.8	10	12	6	13	w.	Miss Veronica E. April.
York	York	400	40	31.9	+2.6	63	13	-8	30	36	2.20	-0.79	0.81	11.0	9	18	9	4	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	31.2	+1.2	62	15	3	29	36	1.63	-1.24	0.67		8	5	5	21	sw.	U. S. Engineer.
Bradford	McKean	1,460	13																.....	Bradford Electric Co.
Brookville	Jefferson	1,173	37	25.0	+0.2	59	14	-13	30	39	1.45	-1.92	0.50	2.0	9	13	12	6	.....	John Fawcett.
Butler	Butler	1,152	3	27.6		61	15	-1	31	33	1.41		0.60	2.0	5	8	1	22	w.	William C. Faust.
Claysville	Washington	1,150	24	30.4	-0.5	64	14	-1	21	35	1.38	-2.15	0.60	0.3	10	14	3	14	n.	J. L. Melvin.
Corry	Erie	1,430	16	24.6	+0.3	55	15	-13	30	35	4.08	+0.78	0.62	31.7	21	7	7	17	n.	Nevin R. Dickson.
Derry	Westmoreland	1,172	31	29.6	-0.8	60	14	-3	30	40	2.23	-1.68	0.67	4.9	12	5	20	6	w.	Ted R. Wineman.
Donora	Washington	762	2	32.0		63														

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Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh								T.	.12	.04				.05			.07			.59					.95			.09	.70		T.	2.61	
Altoona	Juniata	.02							T.	.02					T.		.01		.07		.70	.09				.02	.87		.12				1.85	
Ansonia|||	W. Br. Susq.	.04							T.	.07	T.				T.	.08	.02		.02			.52				.45		T.		.02	T.		1.22	
Arendtsville|||	Lower Susq.								T.	.01	T.									.01	.75					.01			.07			T.	0.85	
Baker's Summit	Juniata								.04	.04										.05	.60	.10			.20	.74			.11				1.88	
Bethlehem	Lehigh								.18					.06			.07				.60	.10			.20	.74		1.05		.80	.30		3.15	
Bloersville||	Lower Susq.							T.	.03	.15										1.00				.60					.10				1.88	
Bustleton	Lower Del.																																	
Carlisle	Lower Susq.							T.	.23					T.			T.			.35	.26				T.	.71			.32				1.87	
Catawissa	N. Br. Susq.								.28	.12				T.			.05			.40					.76	.04	T.		.30				1.95	
Center Hall	Susquehanna								.36	.28					.12				.04	.12	.22				.76	.04	T.		.30				2.08	
Chambersburg	Potomac	.04							.06	.19					T.	T.				.93	.08				.15	.57			.16				2.18	
Clearfield	W. Br. Susq.	T.						T.	.10					.20			T.			.75	T.	T.				.20			.20				1.45	
Coatesville	Lower Del.	.07								.14	.01						.07			.58	.04				.20	.62			1.80	.20		T.	3.73	
Colebrook	Lower Susq.	T.							.04	.17					T.		T.			.78	T.				.23	.56			.78	T.			2.56	
Conshohocken	Schuylkill																T.			.51					.32	T.			.81	.07			1.71	
Cresson|||	Juniata	.08																		.61	.08				.52	.19			.12				1.55	
Doylestown	Lower Del.	.14							T.	.10				T.					.02	.25	.28					.74			*	.95			2.48	
Driftwood|||	W. Br. Susq.	.10								.20				.10	.20			.21		1.23					.70			.10					2.84	
Emporium	do.	T.				T.		T.	.08	.09				.40	.11		.03	.10		.73	T.	T.			.18	T.			.30				2.02	
Ephrata	Lower Susq.	.10							T.	.20								T.		.68					.05	.53			1.08	.06		.01	2.71	
Forest City	N. Br. Susq.	.14	T.						.37			T.	T.		.19			.08		.49					.64	T.	T.		.09				2.00	
Freeland|||	Lehigh	.36	.01	.01					T.	.24	.03		T.		.05			.15		.49		.01	.12			.98	.08		.18	.93		T.	3.64	
George School	Lower Del.	.02								.05							T.	T.		.42	.02					.42			.17	.59			1.69	
Gettysburg	Potomac	.06							.01	.10					T.		T.			.86	.05				.02	.67			.24			T.	2.01	
Girardville|	Susquehanna	.01	T.	T.				.09	.17							.09				.70		.01			.35	.51			.65				3.08	
Gordon	Lower Susq.	.11							.05	.25								.14		*						1.25			*	.60			2.40	
Gouldsboro||	Lehigh								.30						.18					.25						.92			.25				1.90	
Graterford	Schuylkill	.02							.01								T.			.05	.29					.76			.53	.38			2.04	
Hamburg	Schuylkill	.62							.14	.10				.03			.08			.52				1.01					.40				2.90	
Harrisburg***	Lower Susq.							T.	.05	.11					T.		.01	.02		.72	T.				.60	.12			.02	1.00	T.	T.	T.	2.65
Harrisburg East	do.								.03	.16					T.		T.	T.		.72	.09				.72	T.			.75				2.47	
Harrisburg North	do.	.10							.03	.13										.67					.73				.13	.31			2.10	
Hawley|||	Upper Del.	.18							.11	.62					.08			.07	T.		.26	T.	.01			.77		T.		.73			2.23	
Hollisterville	do.								.03	.13	.02			.09			.06			.30	.02	.02				.71	T.	T.	.02	.56	T.		1.96	
Holtwood||	Lower Susq.	.16							T.	.23	.01									.40						.73			.45	.60			2.58	
Huntingdon	Juniata	.16							.07	.14				.02	.01	T.	.04			.57	.14				T.	.68			.20				2.03	
Hyndman	Potomac	T.							.01								.02			.67	.05	T.			.24	.67			.04				1.70	
Lakeville	Upper Del.								.10					.12			.06				.16					.75				.58			1.77	
Lancaster	Lower Susq.	.18							.02	.25										.74					.65			*	1.60				3.44	
Lansford|||	Lehigh	*	*	.18					.13	.03							.11				.39					.89			*		.37			2.10
Lawrenceville	N. Br. Susq.					T.								.15		T.	T.			.10							.10		.42	.05			0.82	
Lebanon	Lower Susq.								.01	.13	.03						.01				.70				.84	T.			.10	.45		T.	2.27	
Lewisburg	W. Br. Susq.								.25	.19				.07			.05			.37	.08	T.				.68			.26				1.95	
Lloyd	do.								.01	.04				.18			.02			.44						.19			.08				0.96	
Lock Haven	do.	.15							.33					.34	.01		.02	.02		.49						.31			.14				1.81	
Lykens	Susquehanna	T.							.01	.22	T.			.02	.07		.02	.03		.35	T.					.08	.80		.40	.16			2.16	
Mauch Chunk	Lehigh	.08							.06	.22							.14	.03		.64	T.				.23	.91	T.		.52				2.83	
Mifflintown	Juniata								.07	.16					T.			.03		.50	.08				T.	.40			.09				1.33	
Montrose	N. Br. Susq.								.25	.35				.04	.25			.13		T.	.10					.98	.02		T.	.20			2.32	
Morris Run	N. Br. Susq.	.06							.15					.22						.22	.10					.04	.46			.12	.11			1.88
Mount Pocono	Upper Del.								.18																									
Muncy Valley	W. Br. Susq.	.17							.24	.18								.15								.90					.20			1.84
Narberth	Lower Del.	.21							T.	.05				T.		T.	.02	T.		.35	.26				.10	.99			1.00	.20		T.	3.18	
Neshaminy|||	Lower Del.	.27							.01	.01				T.				T.			.55					.65				.45			1.94	
Newfoundland	Upper Del.																																	

Daily Precipitation for January, 1928—Continued from page 3

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.....	.12							.09	.15					.02						.47	.01					.67			.10			1.63
Beaver Falls|||	Beaver.....	.10							.07	.08				.01	T.	.01		.07			.42	T.	T.	T.		.78	.01	T.	.17			1.72	
Bradford.	Allegheny.....														.10		.05				.35	T.	T.			.50		T.	.05	.05			1.45
Brookville.	do.....	.05	T.		T.				.25			.05									*					.90			.06			1.41	
Butler.	Ohio.....	.10							.35												.49	T.				.36	.24		.03			1.38	
Claysville.	do.....	.03							.08	.05					.04		.03	.03															
Cloett.....	Allegheny.....	T.						.03	.17	.09			T.	T.	T.		.02	.05			.32					.55	.04		.05	.09			1.41
Clymer††.....	Conemaugh.....	.06	T.						.26	.14				T.	.04		.05	.14			.33	.18				T.	.53			T.			1.73
Confluence|||	Youghiogheny.....	.33	.05						.11								.22			.08	.40	.05	.03						.06	.07		2.45	
Coraopolis|||	Ohio.....	.19	T.						.10	.20				T.	.01	.05		.05			.38	T.	T.			.58	T.		.03	T.			1.59
Corry.....	Allegheny.....	.39	.57	.01		.05			.12	T.	T.	.01	.02	.16	.02		.06	.05		.58	.23	.45	.07		.48	.62	.12	.01	.03	.03		T.	4.08
Coudersport.	do.....								.10					.31						.77							.45	.25					1.88
Creekside.....	Allegheny.....	.02	.03				.01	*	*	.37	T.			.03	.04		.06			*	*	.57				.65			.10			1.88	
Derry.....	Conemaugh.....	.03	.01					T.	T.	.11	.22	T.				.12	.10			.67		.04			.27	.56			.07	.03		2.23	
Donora|||	Monongahela.....	.07	T.					T.	*	*	.16				T.	.05		.07			.03	.37	T.	T.		.02			T.			0.78	
Ebensburg.	Conemaugh.....	T.							.11								T.				.66	T.				.10	.20		.10			1.17	
Elk Lick.	Youghiogheny.....	.20							1.00												1.00	.20	.10			.80	.30		.20			3.80	
Falls Creek.	Allegheny.....	.10							.26					.03			.06			.38	.20					.56	.05	.10				1.74	
Franklin|||	Allegheny.....	.34							.05	.04				.04	.02	.05	.06				.56	.16				.96	.08		.02			2.38	
Freeport|||	do.....								.11	.10				T.	.01	.01		.08			.32	T.				.63	T.		.02			1.28	
Greensboro.	Monongahela.....								T.	.08	T.					.01		.08			.02		.01				.55			.03	T.		0.78
Greensburg.	Youghiogheny.....	.05	T.					T.	.13	.12				T.	T.	.13	.11		.51	.04	.01				.15	.35	T.	T.	.08	T.		1.68	
Greenville.	Beaver.....	.05	.01						.12	.03				T.	.06	.10	.05	T.		.51	T.	.17			.50	.23	.21		.03	T.		2.07	
Grove City.	Beaver.....	.13	.06	T.					.21	.02				T.	.03	.08			T.	.61	.01	.01			.45	.55	.01		.04			2.19	
Herrs Isl. Dam|||	Ohio.....	.12	.01				T.		.03	.15				T.	T.	.07		.12			.34	T.				.63			T.	T.	T.	1.47	
Indiana.	Conemaugh.....																								.40	.15	T.	T.	.01	T.	.01	1.51	
Ingram.	Ohio.....	.02	T.					.01	.17	.05	T.			T.	.08	.01	.11	.04		.41	.02	.02			.40	.15	T.	T.	.01	T.	.01	1.20	
Irwin.	Youghiogheny.....	T.	T.						.12	.11					.08	.02	.05			.50	.04	T.			.24	.02			.02	T.		2.39	
Johnstown.	Conemaugh.....	.07	T.			T.			.01	.08				T.	T.	.02	.17			.60	.16	T.	T.		.20	.94			.13	.01	T.	2.24	
Kregar|||	Youghiogheny.....	.11	.03					T.	.20	.03	T.				.02		.24			.47	.02				.88	.04		.15	.05			T.	
Linesville|||	Beaver.....	.57	.10	.03					.12	.03				.14		.04	.09				.58	.12	.04			.69	.05	.03	.03	T.		2.66	
Lock No. 4|||	Monongahela.....	.16	T.						T.	.15		.01			.04	.03		.09			.58	T.				.54	.01		.01			1.63	
Lycippus.	Conemaugh.....	.07							.03	.27					.06		T.	.18			.37				.45	.27			.05			1.75	
Mount Lebanon.	Ohio.....	T.							.15						.01	.06		.12		.30	T.				.40	.24						1.28	
New Castle|||	Beaver.....	.17		.01			.01		.15	.09	.01			.02	.07	.02	.03				.52	.01				.82	.02		.10	.10	.02		2.17
Newell.	Monongahela.....						.01		.18						.08		.06			.03	.32				.40			T.	T.			1.08	
Parkers Landing|||	Allegheny.....	.10	T.	T.		T.	T.		.05	.27		T.		.05	T.	.05	.03			*	.60	T.	T.			.85	.40	T.	.10	T.		2.50	
Pennline|||††	Beaver.....	.58	.30	.01					.08	.20					.04	.07			*	.58	.12	.04			.69	.05	.03	.03	T.			2.54	
Pittsburgh***	Ohio.....	.02						T.	.14	.03		T.			.05	T.	.08	.01		.36	.03	T.			.53	.05	T.		T.		T.	1.30	
Ridgway.	Allegheny.....	.03	.20			.10	T.		.10	.08				.30		.04				.60	.03	.04			.05	.06	.01	T.	T.			1.64	
Saegertown.	Allegheny.....														T.	T.																	
Saltsburg|||	Conemaugh.....	.14	.05						.12	.18											.52	.03				.61	.01		.08	.01	T.		1.75
Sharon|||	Beaver.....	T.												T.							.80					.70	T.		.03			1.53	
Somerset.	Youghiogheny.....	.03							.08	.20					.08		.28			.32	.08	.04			.04	.09		.04		.04		1.08	
Springdale|||	Allegheny.....	.20	.02				.01		.08	.20					.01	.04		.12			.34	.01	.01			.66	.01		.03	.01	.01		1.76
Tionesta.	Allegheny.....	.10	T.						.10					.20	.10		.20			.40	T.	.10			.30	.20	.10		T.	.10		1.90	
Uniontown.	Monongahela.....	.05						T.	.07	.18				.03	.03	T.	.15		.51	.02	T.				.15	.48		.07	T.			1.74	
Unity Reservoir††	Youghiogheny.....	.12							.17	.20					.05	.06	.04	.15		.60	.08				.18	.43		.09	.05			2.22	
Vandergrift†	Conemaugh.....								.38	.03							T.			*					.73	.04				.01		1.19	
Warren.	Allegheny.....	.18	.12	.06		.03			.05					.33	.06		.22			.50	.20	.15			.45	.25	.06					2.71	
Washington.	Ohio.....	.01						.01	.10	.03		.01	T.		.03	T.	.02	.04		.38	.01				.56	.01		T.	.01			1.22	
Westford|||	Beaver.....	.05	T.						.14								.02	.02		.53			.09	.10		.71	.18	.20	.19			2.19	
West Newton|||	Youghiogheny.....		.15						.02	.16					.02	.02	.06			.43						.45	.03		.03	.02			1.51
Zelienople|||	Ohio.....	.19	T.						.12	.14				.02	T.	.05	.10				.43	T.	T.			.75			.07	T.		1.87	
Lake Drainage.																																	
Erie***	Lake Erie.....	.33	.27	.02		T.	T.		.08	.02	.01	T.	T.	.03	T.		.05			.51	.07	.03	T.		.30	.05	T.	.02	.06	T.		T.	1.85
West Bingham.	Genesee.....																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for January, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	37	24	25	27	37	47	58	51	44	43	55	51	55	48	52	39	49	42	43	39	25	37	49	50	41	44	31	25	27	26	31	40.4	
	Minimum	24	11	11	12	22	29	38	37	34	34	36	38	37	35	23	24	35	33	34	15	15	16	27	33	23	15	17	-5	-4	23.4			
Altoona.....	Maximum	45	10	14	21	29	44	52	49	41	35	44	47	54	50	60	37	56	42	42	42	12	37	43	41	40	32	26	24	17	22	30	36.7	
	Minimum	3	0	1	5	12	20	40	39	35	32	33	34	36	34	37	23	31	30	32	12	6	9	26	22	18	15	1	10	6	-6	8	19.2	
Beaver Dam.....	Maximum	7	16	15	23	33	45	49	47	40	41	47	45	55	61	62	43	59	43	51	49	13	38	45	44	41	31	29	29	20	24	35	38.1	
	Minimum	18	18	14	21	29	42	47	39	37	39	42	49	51	59	59	51	41	39	46	28	16	35	43	45	34	29	28	14	21	23	22	34.8	
Brookville.....	Maximum	0	3	1	3	18	28	36	34	31	32	32	30	36	29	20	21	27	24	22	8	6	8	18	17	13	-2	-1	4	-2	-13	-10	15.3	
	Minimum	4	14	12	19	27	41	44	48	38	38	43	44	52	53	61	39	58	42	46	40	19	30	41	44	48	32	27	29	20	20	32	35.6	
Butler.....	Maximum	3	2	0	5	15	27	28	35	35	32	34	34	42	32	37	25	32	27	31	10	7	13	27	21	21	15	2	7	5	2	-1	19.5	
	Minimum	44	22	22	27	36	52	58	52	46	46	57	51	61	57	60	45	54	50	47	43	20	41	50	43	42	43	42	25	24	27	33	42.6	
Carlisle.....	Maximum	12	8	8	9	16	18	28	38	36	33	32	38	31	32	31	21	31	28	35	20	10	8	20	21	27	23	13	15	12	-3	1	21.0	
	Minimum	22	23	22	22	34	50	60	47	43	47	53	48	56	52	51	51	50	43	42	30	30	38	48	49	36	41	34	24	28	29	35	39.9	
Catawissa.....	Maximum	8	6	6	14	25	33	36	35	30	30	34	35	34	35	15	20	27	25	25	11	11	29	21	32	18	10	13	12	-9	0	20.2		
	Minimum	48	20	22	27	37	54	60	54	49	46	58	49	64	57	63	44	55	48	42	45	21	41	50	42	42	43	33	28	23	26	34	42.7	
Chambersburg.....	Maximum	11	8	5	8	16	23	33	34	36	32	35	35	31	33	31	28	34	32	37	20	13	13	28	22	26	21	10	14	11	4	6	22.3	
	Minimum	36	11	14	23	33	46	52	47	41	36	52	48	55	64	63	56	61	48	54	46	15	38	48	46	47	34	30	26	20	24	39	40.4	
Claysville.....	Maximum	1	-1	-1	3	14	26	32	38	34	32	33	33	45	33	35	28	34	28	37	12	7	11	32	24	20	20	7	5	-1	9	5	20.5	
	Minimum	48	17	16	23	31	41	50	47	45	41	43	43	49	56	55	50	41	40	40	17	35	47	45	38	35	30	24	19	16	24	36.8		
Clearfield.....	Maximum	5	2	3	7	16	24	34	39	35	35	34	36	39	33	35	26	32	30	25	12	8	11	33	24	10	10	2	11	11	-8	-6	19.6	
	Minimum	50	16	21	23	32	44	55	55	44	44	55	52	59	56	47	42	40	42	22	36	48	44	44	44	44	44	29	26	20	22	31	.....
Coatesville.....	Maximum	12	7	8	8	10	23	26	30	37	28	28	36	36	30	34	23	23	24	34	18	12	10	25	15	25	14	8	14	4	-7	-2	19.1	
	Minimum	35	12	11	18	25	41	40	41	36	35	40	38	46	49	55	39	47	39	45	42	12	33	37	39	38	23	22	19	18	18	32	32.6	
Corry.....	Maximum	3	2	-2	-2	14	22	36	35	30	30	32	36	32	26	18	28	28	26	7	5	6	25	17	16	10	4	-1	6	-13	2	16.6		
	Minimum	35	18	13	21	27	42	48	46	39	37	41	44	50	45	58	35	45	42	40	18	35	40	44	40	40	29	26	22	19	21	28	35.3	
Emporium.....	Maximum	4	4	5	5	17	23	41	38	34	33	33	36	41	34	28	18	33	32	24	11	8	11	11	18	17	17	0	12	0	-12	0	18.6	
	Minimum	24	17	13	21	31	43	43	40	37	42	45	49	48	59	54	46	33	36	50	38	19	36	35	40	34	26	24	16	18	19	26	34.3	
Erie.....	Maximum	8	7	3	8	21	31	39	34	32	34	34	34	35	35	24	21	30	31	36	12	11	14	30	30	20	14	12	10	8	2	13	21.7	
	Minimum	10	13	16	22	34	43	45	41	39	43	43	43	50	52	59	40	52	42	39	49	18	16	36	42	43	27	28	26	17	21	20	31	34.1
Franklin.....	Maximum	6	2	1	1	3	18	31	38	33	32	32	34	34	32	33	19	25	28	26	15	6	8	12	20	23	15	6	9	4	-5	-4	17.3	
	Minimum	50	14	12	16	26	39	50	46	40	36	46	42	54	45	49	27	36	36	34	36	16	28	38	42	40	34	26	21	23	20	26	33.8	
Freeland.....	Maximum	6	-1	0	0	15	33	40	32	28	27	30	32	30	30	27	10	23	25	25	8	4	4	20	25	16	10	4	13	8	-2	4	16.3	
	Minimum	49	22	22	26	36	52	59	56	50	46	59	52	63	57	63	46	54	49	46	43	25	37	49	44	45	45	34	30	23	26	32	43.2	
Gettysburg.....	Maximum	16	8	8	9	18	25	40	39	37	33	39	35	36	36	29	31	36	37	22	13	14	28	22	27	20	11	14	12	7	9	24.1		
	Minimum	38	12	14	20	31	43	51	47	40	36	47	46	55	62	60	55	58	44	50	44	14	36	44	49	55	39	30	32	19	26	36	39.8	
Greensburg.....	Maximum	2	1	2	5	14	26	37	39	36	33	33	35	35	35	28	27	35	29	35	13	8	12	32	26	20	19	9	9	5	4	8	21.4	
	Minimum	43	15	15	21	33	40	43	42	38	44	50	46	52	51	41	39	42	51	38	47	45	14	35	42	40	41	26	26	25	20	30	36.3	
Grove City.....	Maximum	3	1	-3	3	6	17	36	38	32	32	33	33	40	31	32	22	31	32	31	10	-1	9	28	27	12	16	5	-1	-7	-3	17.8		
	Minimum	50	22	29	28	32	46	48	55	51	49	52	53	55	53	55	46	50	48	44	42	25	33	47	48	36	38	43	28	26	24	28	41.4	
Hamburg.....	Maximum	22	9	9	13	14	27	34	36	29	28	33	33	36	33	33	18	26	34	33	27	11	11	20	21	30	20	9	15	15	-8	0	20.8	
	Minimum	35	21	22	26	34	51	57	51	45	45	55	49	60	49	58	32	52	46	43	43	20	37	48	47	43	42	31	27	22	22	31	40.1	
Harrisburg.....	Maximum	10	10	12	18	28	39	41	37	35	37	39	35	40	40	32	26	32	38	36	15	14	16	30	29	23	23	17	15	13	6	13	24.9	
	Minimum	52	18	19	22	27	45	55	48	42	40	47	42	59	50	49	33	42	42	36	36	21	31	43	47	44	31	29	24	23	24	27	37.0	
Hawley.....	Maximum	14	6	4	4	15	16	33	40	35	31	30	32	33	32	33	15	23	30	19	21	10	10	29	15	28	14	2	15	12	-13	-7	18.7	
	Minimum	47	17	19	26	35	51	57	53	45	49	50	47	58	55	64	39	50	47	45	45	25	42	47	43	42	37	30	28	21	26	34	41.1	
Huntingdon.....	Maximum	8	5	-1	9	19	22	45	41	37	36	38	35	35	33	33	21	32	29	14	11	14	31	18	22	19	5	13	11	-7	4	21.4		
	Minimum	32	12	14	22	31	43	51	48	47	40	46	49	56	60	60	48	58	45	47	39	15	37	44	43	43	34	30	25	19	26	33	38.6	
Johnstown.....	Maximum	4	2	5	8	16	26	41	42	37	34	38	36	44	38	38	30	36	33	37	12	9	13	28	24	19	20	9	11	8	4	11	23.0	
	Minimum	24	25	27	28	35	52	62	58	55	48	47	47	57	54	43	50	52	46	45	42	34	40	52	53	48	47	48	39	35	30	30	43.7	
Lancaster.....	Maximum	15	8	8	8	11	17	23	29	34	22	25	20	35	30	28	22	28	25	31	24	14	12	25	19	31	17	10	13	10	-10	-4	18.7	
	Minimum	46	20	19	25	26	45	50	45	39	42	45	40	52	42	53	40	45	45	40	37	23	37	42	47	41	29	28	24	22	23	31	36.5	
Lawrenceville.....	Maximum	12	8	7	6	17	32	38	34	31	33	32	36																					

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1	100
2	100
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57.05
NPU. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXIII.

FEBRUARY, 1928.

No. 2

GENERAL SUMMARY.

The month as a whole was comparatively mild, the cold periods being of short duration and not very severe. It was moderately cold on the 19th, 21st, 25th and 26th, while during the remainder of the month the temperatures were near or somewhat above the normal. The precipitation was moderately heavy, although the snowfall was considerably less than the February average. The heaviest snowfall occurred on the Pocono plateau and in the eastern portion of the Ohio drainage basin. In the south-central and southeastern counties the fields were bare of snow covering the greater portion of the month, and the conditions were unfavorable for winter wheat and rye. Near the end of the month disparaging reports were received in increasing numbers, and it became apparent that the alternate freezing and thawing without adequate snow protection had seriously damaged the winter grains. This damage was believed by some to be the worst that had occurred during the last six or seven winters. No complaints were received regarding damage to clover or alfalfa, probably because it is not so apparent until growth begins in spring, but those crops undoubtedly suffered considerably. Little outdoor work was done by the farmers during the month excepting the pruning of orchards and the hauling of manure. There were no severe storms and the main highways were in fair to good condition most of the time. During periods of mild temperature, covering about one-half of the month, the frost came out of the top soil, leaving some in the subsoil, and rains made the unimproved roads almost impassable. At such times it was impossible to drive into the fields. Building and construction work proceeded at a moderate rate, with occasional interruptions, throughout the month, and more was accomplished than during the average February.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 82 stations, was 30.3°, an excess of 2.6° over the February normal. The highest monthly mean was 35.5° at Philadelphia-Point Breeze and the lowest was 23.1°, at Gouldsboro. The highest temperature recorded during the month was 65°, at Chambersburg on the 4th, and at Hyndman on the 4th and 8th. The lowest for the month was 11° below zero, at Bradford on the 26th. The greatest daily range of temperature was 53°, at Stroudsburg on the 23d.

PRECIPITATION.

The average precipitation for the State, as deduced from the reports of 132 stations, was 3.42 inches, which is 0.76 inch greater than the normal for the month. The greatest monthly amount was 5.39 inches at Creekside, while the least, 1.62 inches, fell at Erie. The greatest amount recorded in any 24 consecutive hours was 2.25 inches, at Center Hall on the 14th. Snowfall for the State averaged 6.7 inches, or 3.7 inches less than the normal amount for February. The greatest total snowfall was 21.2 inches, at Kregar, in Westmoreland county, and the greatest 24-hour snowfall was 12.0 inches, at Unity Reservoir, also in Westmoreland county, on the 18th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	Direction
Erie.....	129.1	307.8	42	76	67	69	10,492	15.1	37	se.
Harrisburg.....	154.4	311.0	50	74	59	62	4,795	6.9	27	w.
Philadelphia.....	177.3	311.0	57	73	65	66	7,277	10.5	35	se.
Pittsburgh.....	106.6	309.5	34	76	64	72	7,915	11.4	36	sw.
Reading.....	167.8	311.0	54	78	70	75	4,607	6.6	22	nw.
Scranton.....	168.9	309.5	55	84	71	74	4,971	7.1	23	s.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	1/2 inch or more prec.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11	9
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12	9
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14	11
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14	12
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15	9
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8	6
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13	11
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13	9
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12	9
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13	12
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14	11
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9	8
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12	10
1903.....	30.5	68	-17	4.49	6.13	1.80	10	7	11	10
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12	11
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10	8
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9	7
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9	8
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12	11
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15	14
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12	11
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15	10
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10	8
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11	9
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11	10
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14	9
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14	12
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10	9
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10	11
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12	11
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12	10
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10	10
1923.....	24.6	58	-20	2.16	4.80	0.65	8	8	12	12
1924.....	26.9	70	-25	2.94	5.16	1.27	11	7	11	10
1925.....	35.6	71	-11	2.16	4.61	0.55	11	7	10	8
1926.....	28.7	65	-13	4.06	7.29	1.34	7	6	15	12
1927.....	35.0	69	-8	3.48	5.94	1.25	7	8	13	13
1928.....	30.3	65	-11	3.42	5.39	1.62	10	7	12	11

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.7	7.0	16	2.6	6	18
Phillipsburg.....	Delaware.....	4.6	8.2	16	2.3	6	22
Mauch Chunk.....	Lehigh.....	-1.3	1.9	15	-2.5	1	12
Wilkes-Barre.....	Susquehanna.....	7.3	14.3	16	4.1	4	26
Williamsport.....	Susquehanna.....	4.4	9.0	17	2.0	1	20
Harrisburg.....	Susquehanna.....						
Greensboro.....	Allegheny.....	14.0	18.3	9	11.2	4	22
West Newton.....	Youghiogheny.....	3.8	6.6	1	1.9	22	20
Lock No. 4.....	Monongahela.....	16.5	19.7	10	14.0	4	31
Pittsburgh.....	Ohio.....	14.3	19.7	9	11.4	4	25
Beaver Dam.....	Ohio.....	12.8	20.2	10	6.2	8	30

Climatological Data for February, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	30.1 ^a	.....	53	29	6°	1	42°	4.19	+1.18	1.06	4.6	8	17	8	4	ne.	John A. Frick.
Altoona	Blair	1,615	41	28.7	+2.9	55	8	1	26	29	3.61	+1.50	1.01	13.0	13	13	7	9	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	31.3	.....	60	5	6	1	32	3.31	.....	1.45	1.0	7	13	7	9	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	31.7	+1.9	54	4	5	26	31	4.42	+0.93	1.28	7.0	9	16	6	7	nw.	Lehigh University.
Bustleton	Philadelphia	125	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle	Cumberland	467	61	33.6	+3.6	62	4	7	26	42	3.76	+0.79	1.54	2.0	7	14	2	13	sw.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	29.6	+0.5	57	4	2	22	38	2.93	+0.25	0.80	5.7	11	16	0	13	.....	H. H. Yetter.
Center Hall	Center	1,272	32	26.0	+0.1	51	5	0	26	40	4.30	+2.00	2.25	13.0	7	14	9	6	.....	S. W. Smith.
Chambersburg	Franklin	580	28	33.4	+2.6	65	4	11	26	39	2.62	-0.29	1.23	1.8	6	9	8	12	w.	William B. Spear.
Clearfield	Clearfield	1,120	18	29.6	+2.1	58	8	-4	26	40	4.15	+1.46	1.10	20.0	9	12	5	12	w.	E. W. Hess.
Coatesville	Chester	380	40	30.9	+1.0	55	23	5	2	34	4.47	+0.37	1.26	6.0	9	10	8	11	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	30.4	+0.6	56	29	6	26	34	3.62	+0.70	1.07	3.0	8	14	2	13	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	26.4	+1.7	51	8	-7	26	42	4.60	+1.73	1.62	7.2	12	10	4	15	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	32.4	+4.3	56	23	8	1	31	3.89	+0.73	1.09	4.2	9	13	4	12	w.	Ira J. Keath.
Freeland	Luzerne	1,970	13	24.6	.....	50	4	-6	26	30	4.50	.....	1.17	13.1	16	9	3	17	nw.	Theo. Reichmann.
George School	Bucks	190	21	33.2	+3.5	52	5	7	26	35	3.74	+0.64	1.12	4.5	8	17	7	5	n.	Prof. N. W. Swayne.
Gettysburg	Adams	553	54	34.2	+3.9	60	4	11	26	34	3.38	+0.57	1.68	0.5	8	9	10	10	w.	Dr. Henry Stewart.
Gordon	Schuylkill	840	24	28.8	+3.5	57	4	-3	22	39	4.76	+1.29	0.91	12.0	12	15	4	10	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	4	23.1	.....	49	4	-8	22	38	3.13	-0.60	1.02	12.0	7	15	4	10	w.	Gustav Holtz.
Hamburg	Berks	535	35	30.2	+1.4	53	4	3	22	37	3.47	+0.08	1.06	4.0	9	13	11	5	w.	State Sanatorium.
Harrisburg	Dauphin	361	58	32.5	+2.3	59	4	11	26	33	3.46	+0.64	1.25	1.9	13	5	10	14	w.	Mrs. Mabel C. Wolcott.
Hawley	Wayne	900	9	28.0	.....	55	23	-10	22	45	3.62	.....	0.96	13.0	9	13	7	9	nw.	U. S. Weather Bureau.
Holtwood	Lancaster	200	13	33.4	.....	59	5	1	34	31	3.11	+0.54	0.90	1.0	9	11	5	13	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	40	31.0	+2.6	57	4	5	26	34	2.58	-0.26	0.83	3.8	11	9	6	14	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	2	33.8	+3.7	65	4	9	26	38	1.63	-1.11	0.89	0.8	8	5	8	16	.....	John S. Madore.
Lancaster	Lancaster	255	40	31.6	+1.8	59	29	1	37	42	4.28	+1.60	1.39	7.2	9	18	5	6	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	26.7	+3.7	55	8	-5	21	43	1.75	-0.08	0.47	7.0	8	12	5	12	.....	C. P. Darling.
Lebanon	Lebanon	469	87	30.4	+1.7	56	29	5	1	43	3.81	+0.34	1.19	.....	9	12	4	13	nw.	S. B. Benzing.
Lewisburg	Union	450	53	30.4	+4.6	56	4	3	22	36	3.09	+0.30	0.80	10.5	10	9	7	13	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	31.0	+3.9	50	4	2	26	34	2.91	+0.06	1.06	3.5	7	10	4	15	w.	Joseph Beaver.
Lykens	Dauphin	680	13	31.6	+1.5	57	4	2	22	37	3.65	+1.21	1.40	6.0	9	14	9	6	sw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	28.6	+1.6	55	23	1	22	36	3.88	+0.01	1.23	7.0	10	15	4	10	sw.	R. K. Wintermute.
Midlinton	Juniata	445	24	31.1	+4.4	61	4	8	26	40	2.56	+0.22	1.12	4.0	5	11	2	16	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	25	25.5	+5.2	52	4	-7	26	40	3.27	+1.20	1.05	9.0	8	7	8	14	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	.....	.....	48	29	0	21	36	2.99	+0.62	0.69	6.0	7	13	2	14	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	26.5 ^a	+0.8	48 ^a	29	0	21	36	2.99	+0.62	0.69	6.0	7	13	2	14	nw.	A. H. Boatman.
Narberth	Montgomery	300	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls	Bucks	300	39	29.9	+0.8	58	23	5	26	44	3.80	.....	1.40	1.3	9	13	5	11	sw.	North Springfield Water Co.
Palmerton	Carbon	398	11	29.3	.....	54	4	1	22	38	2.78	.....	0.91	7.0	14	12	7	10	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	35.1	+1.2	59	23	11	26	25	4.00	+0.57	1.20	1.0	10	10	5	13	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	4	35.2	.....	60	23	11	26	24	4.39	.....	1.07	1.8	10	10	9	10	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	34.2	+0.9	57	23	11	26	25	4.03	+0.81	1.07	0.6	8	11	7	11	w.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	35.5	.....	60	23	11	26	24	3.88	.....	1.12	1.6	10	9	9	11	w.	Atlantic Refining Co.
Phoenixville	Chester	100	17	33.6	+1.8	57	23	10	2	32	3.22	+0.01	0.93	7.0	9	16	9	4	w.	North Springfield Water Co.
Quakertown	Bucks	496	43	29.5	+1.3	52	23	-4	1	41	4.23	+0.47	1.23	6.0	11	10	9	10	nw.	John E. Benner.
Reading	Berks	325	58	32.4	+3.6	56	29	9	26	30	4.30	+0.67	1.22	5.5	14	11	7	11	w.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	28.8	+1.5	52	4	3	26	30	2.16	-0.56	0.71	9.4	11	9	7	13	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	30.8	+3.7	55	4	5	22	33	3.62	+0.68	1.18	4.8	7	12	8	9	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	33.9	.....	56	23	10	26	28	4.02	+0.84	1.24	.....	9	13	6	10	nw.	W. S. Guiles.
State College	Center	1,217	43	29.0	+3.5	55	8	2	26	31	2.37	-0.42	0.62	9.8	14	6	10	13	w.	C. A. Kern.
Stroudsburg	Monroe	500	12	26.8	-0.4	54	23	-3	22	53	4.29	+1.30	1.41	6.5	6	13	7	9	nw.	State Normal School.
Towanda	Bradford	754	33	27.6	+4.0	54	4	1	22	38	2.26	+0.35	0.70	5.0	12	8	8	13	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	24.8 ^a	+0.2	44 ^a	5	-5	21	40	1.94	-0.41	0.97	8.0	9	18	6	5	w.	George W. Hill.
West Chester	Chester	455	90	32.3	+1.5	59	23	7	26	30	.....	.....	.....	.....	12	8	9	9	sw.	Joseph W. Belt.
Williamsport	Lycoming	521	41	29.2	+2.6	50	29	3	26	33	3.86	+1.30	1.42	7.5	11	13	1	15	nw.	Miss Veronica E. April.
York	York	400	40	34.2	+4.6	61	4	5	2	42	3.27	+0.24	0.85	.....	9	14	8	7	ne.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	32.4	-0.2	60	8	6	19	34	3.95	+1.64	0.99	.....	14	7	7	15	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	.....	.....	46 ^a	14	-11 ^a	26	45 ^a	.....	.....	.....	.....	.....	.....	.....	.....	.....	Bradford Electric Co.
Brookville	Jefferson	1,173	37	24.6 ^a	+0.3	55 ^a	8	-10 ^a	21	52 ^a	2.73	+0.28	0.65	12.0	10	17	5	7	.....	John Fawcett.
Butler	Butler	1,152	3	30.8	.....	58	9	2	26	38	3.77	.....	1.13	6.0	10	13	4	12	w.	William C. Faust.
Claysville	Washington	1,150	24	33.0	+3.2	62	8	0	19	35	2.72	+0.23	0.46	5.0	12	11	4	14	n.	J. L. Melvin.
Corry	Erie	1,430	16	25.6	+0.2	54	8	-6	21	42	3.13	-0.10	0.49	15.5	20	6	8	15	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	31	31.1	+3.0	5														

Daily Precipitation for February, 1928

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh	.08				.26			1.06	.18		T.				.80	T.	T.	.71	.10		T.		1.00									4.19
Altoona	Juniata			.02	.03	.57		.08	.40	.10		.02			1.01	.25		.05	.30				.60	.18									3.61
Ansonia	W. Br. Susq.		T.			.12			.16	.12		T.	T.			.97			.22	.09				.47	.08				T.				2.23
Arendtsville	Lower Susq.	T.				.10			.30	.37		.02				1.45	T.						.90										3.31
Baker's Summit	Juniata					.34			.34	.04					.75			.05	.27				.45										2.24
Bethlehem	Lehigh	.07				.22		.05	1.23	.60		.01			.85				.54				.85										4.42
Bloersville	Lower Susq.				.05				.40						1.10				.05				.30										1.90
Bustleton	Lower Del.																																
Carlisle	Lower Susq.				T.	.30		T.	.28	.60		T.			1.42	.12			.20			T.	.84										3.76
Catawissa	N. Br. Susq.		T.		.05	.35		.40	.30	.07		.05	T.		.80			.20	.45				.03	.23									2.93
Center Hall	Susquehanna	T.			.05			.08				.12			2.25			.10	.38				1.32										4.30
Chambersburg	Potomac	T.			T.			.08	.32	.18		T.			1.23				.13				.68										2.62
Clearfield	W. Br. Susq.	T.			.10	1.10		.20	.20	T.		T.			.75	.42	T.	.03	.40		T.		.95										4.15
Coatesville	Lower Del.	.05				.25		.29	.97	.20		.05			1.01			.72					.93										4.47
Colebrook	Lower Susq.	T.			.33			.06	.55	.23		.05	T.		1.07	T.		T.	.45	T.		T.	.88										3.62
Conshohocken	Schuylkill	T.				.46	.64			.02					1.28			.79					1.06							T.			4.25
Cresson	Juniata	.03			.58				.30	.15		.04			.97	.30	.29	.28				.50	.15										3.59
Doylestown	Lower Del.	.12						.10	1.60	.24		T.			.18	.85			.55				.94										4.58
Driftwood	W. Br. Susq.					.51			.20	.25		T.				1.34	T.		.35				.90	.35									3.90
Emporium	do	T.		T.	.10		.09	.11	.44	T.	.10		.02		1.27	.35	T.	.10	.30	T.	.10	T.	1.62										4.60
Ephrata	Lower Susq.	.01			.23		.17	.92	.27		.03	T.			.86	T.		.59					.81										3.89
Forest City	N. Br. Susq.	T.			.06	.12		.66	.28	T.	T.	.04			.06	.73		.43	.04	.03			.33	.08									2.86
Freeland	Lehigh	.02		.01		.48		.60	.24	T.	.08	.09			.09	1.17	.03	.01	.50	.46	.01		.61	.10				T.					4.50
George School	Lower Del.	.03				.16		.03	.84			T.			.73	.12		.71					1.12										3.74
Gettysburg	Potomac	.01			T.	.02		T.	.55	.13		T.			1.67	.01	T.	.18					.81								T.		3.38
Girardville	Susquehanna	.01		.01	.18	.17	.31	.29	.18	.01	.10	.01			1.38	T.	T.	.40	.68				.25	.42	.03					.05			4.48
Gordon	Lower Susq.		.10	.30		.45		T.	.58	.32		.05	.10		.56	.91			.90				.45	.04									4.76
Gouldsboro	Lehigh					.63			.46						*	.84			.54				.18										3.13
Graterford	Schuylkill	.04				T.		.02	.78	.34					.06	1.17		.53				1.07											4.01
Hamburg	Schuylkill	.01				.12		.04	.61			.01			.96			.65					1.06							.01			3.47
Harrisburg	Lower Susq.	T.		T.	.04	.22		.06	.70	.04	T.	.06			1.25			.08	.10	.02	T.		.40	.48						.01			3.46
Harrisburg East	do	T.				.30		.38	.55	.05					1.00	.09		.28	.01				.87							T.			3.53
Harrisburg North	do					.31		.36	.30		.03				*	1.37		.26					.82										3.45
Hawley	Upper Del.	.03	.01		T.	.07		.50	.10						.96	.02		T.	.90				*	1.03									3.62
Hollisterville	do	T.			T.	.19		.31	.26	T.	T.	T.	T.		.74	.11	T.	.44	.29	T.		.26	.07										2.67
Holtwood	Lower Susq.	T.				.01		.76	.15		.10	T.			T.	.90	.01	.33	.04				.81	T.									3.11
Huntingdon	Juniata				.02	.04	.30		.05	.41	.03				.83	.02		.05	.15				.68										2.58
Hyndman	Potomac				.02	.04	.23	.03	.02	T.					.89			.01					.39										1.63
Lakeville	Upper Del.				.15		.38	.17							.87	.06		.46	.29				.39	.07									2.84
Lancaster	Lower Susq.				.16		.08	1.31			.20				1.00		*	.52					.94								.07		4.28
Lansford	Lehigh				.17			.49	.21		.05				.04	1.05	.01	.44	.12				.58										3.16
Lawrenceville	N. Br. Susq.				T.			.05	.15	.10		.10	T.		.35	.43		.10	.47														1.75
Lebanon	Lower Susq.	T.			.34		.64	.29		.02	T.				1.19			.33	.10				.85							.05			3.81
Lewisburg	W. Br. Susq.			T.		.14		T.	.45	.12		.03	.03		.80	.28		.45	T.	T.			.72	.07									3.09
Lloyd	do				.52			.32							.81	.21		.01		.20			.65										2.72
Lock Haven	do			.05	.30		.49								1.06			.30					.55	.16									2.91
Lykens	Susquehanna	.02					T.	.40	.31	.04		T.			.88	.52		.52	.09				.87							T.			3.65
Mauch Chunk	Lehigh	.13		.03	.16		.04	.56	.18		.02				1.23			T.	.66				.93										3.88
Mifflintown	Juniata	T.		T.		.37		T.	.31	T.		T.			1.12			T.	.13				.63										2.56
Montrose	N. Br. Susq.					.30	.47	.30	T.		.05				.32	.73		.50	T.	T.			.60										3.27
Morris Run	N. Br. Susq.			.22		T.	.21	.19		.02	.03				.30	.75		.23					.36	.32									2.63
Mount Pocono	Upper Del.																																
Muncy Valley	W. Br. Susq.						.58			.16					.68	.69		.35					.42	.11									2.99
Narberth	Lower Del.																																
Neshaminy	Lower Del.	.05				.18	T.		1.30	.10		T.																					

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Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam	Ohio				.99				.49	.30	.01	.05	T.		.14	.99	.04	.01	.20	.08				.47	.13	.05								3.95
Beaver Falls	Beaver		.01	T.	.67				.50	.17	.01	.06	T.		.18	.94	.02	.02	.15	.02	T.	T.		.38	.10	T.								3.23
Bradford	Allegheny				\$				\$						.75	.30	.09		.30		.20		.28	.26					.09				\$
Brookville	do	.03			.65			.40	.10	.20	T.				.75	.50		.10			.15		.45		T.								2.73	
Butler	Ohio					.46			1.03	.03	.05	1.00			* 1.13	.03		.30					.20										3.77	
Claysville	do	T.						.26	.11	.16					.43	.13	.04	.12	.38				.18	.35									2.72	
Cloft	Allegheny	T.	*		.45	.21		.17	.36	.08	T.	.04		T	1.10	.23		.37	.08	T.			.36	.41						.07			3.93	
Clymer	Conemaugh	*		*	.12	1.00		.04	.53	.38		.06			.47	.57	.04	.06	.50				.29	.38									4.44	
Confluence	Youghiogheny				.52			.25	.37	.10	.05	.10			.05	.58		.43	.15	.03			.17										2.80	
Coraopolis	Ohio		T.	T.		.76		.59	.17	.05	.07	.01			.19	.89	.03	.01	.25	.10	T.		.52	.33	.02	T.							3.99	
Corry	Allegheny	.05	.04		.03	.26		.20	.42	.25	.01	.08	.02		.49	.35	.03	T.	.09	.04	.30	.02		.32	.11	.02	T.						3.13	
Coudersport	do				.18			.19	.04						1.67			.50				.64		.58									3.80	
Creekside	Allegheny		.01		1.14			*	.94		.15				* 1.44	.05	*	.56	.06					.36	.53					.15			5.89	
Derry	Conemaugh	T.			1.10		.11	.17	.31	T.	.11				.51	.28	.05	.11	.47			T.		.35	.32								3.89	
Donora	Monongahela	T.			.60			.28	.18	T.	.10				.06	.43	.03	.01	.20		.10			.44	.35					.15			2.93	
Ebensburg	Conemaugh			.05	.45	.08	.23	T.			.30				.85	.20		.10	.30					.45			.10						3.11	
Elk Lick	Youghiogheny				.05	.30	.35	.30		.20					.30		.10	.20	.40	.20		.20		.50	.23					.20			3.00	
Falls Creek	Allegheny		.03		.77			.30	.46	.23		.05			*	.83	.45		.47		.11												4.13	
Franklin	Allegheny		.02					.59	.19	.03	.05				.16	.62	.06		.10		.16	.02		.43	.12								2.55	
Freeport	do				1.00			.63	.23		.06	.03			.15	.70	.06	.02	.31	.05			.44	.27									3.95	
Greensboro	Monongahela	T.	T.		.50			.27	.15	T.	.04				.03	.40	.02	.04	.40	.08	.01		.40	.17									2.51	
Greensburg	Youghiogheny	T.		T.	.79		.19	.23	.28		.09	T.			.22	.26	.03	.18	.59	.02	T.		.17	.32	T.	T.							3.37	
Greenville	Beaver	T.			.07	.57	.46	.32	.11		.13	T.			.54	.30	T.	.01	.04	.01	.08	T.	.39	.10	T.								3.13	
Grove City	Beaver	.02			.11	.54	.33	.32	.10	.06	.13				.57	.50	.02	.02	.07	.25	.05	.01		.36	.12	.01							3.59	
Herr's Isl. Dam	Ohio				.60			.61	.13		.03	T.			.08	.65	.01		.25	.06	T.		.40	.32	.01	T.							3.15	
Indiana	Conemaugh																																	
Ingram	Ohio	T.	T.	T.	.01	.62		.46	.20	.12	T.	.07			.73	.41	.04	.18	.24	.06	T.	T.	.05	.54	.21	T.	T.			.01			3.95	
Irwin	Youghiogheny	T.			.84		.23	.20	.05	T.	.07				.37	.19	.03	.10	.40	T.			.47	.10										3.05
Johnstown	Conemaugh	.01	T.		.05	.82		.05	.28	.24	.05	.03	.03		.98	.30	.01	.10	.65	T.	.02	T.	.05	.65	.08	.02	.01				.03			4.46
Kregar	Youghiogheny	.02			.67			.28	.31	.11	.10	.07		T.	.76	.05	.09	.45	.36	.01	T.		.34	.30	T.					.27				4.19
Linesville	Beaver		.03		.54			.65	.22	.10	.08				.06	.61	.03	.02		.04	.05	.03		.26	.12								2.84	
Lock No. 4	Monongahela	T.			.60			.31	.24	.04	.02	.06			.08	.58	.04	.04	.30	.17	.02		.35	.40										3.25
Lycippus	Conemaugh	T.			.97				.60		.11				.49	.05	T.		.65	.43			.67											3.97
Mount Lebanon	Ohio	T.			.62		.41	.20	.05		.06				.62	.38	.05	.25	.40	T.	T.	T.		.43	.19								3.66	
New Castle	Beaver	.02			.57			.59	.17	.01	.20	.15			.23	1.13	.04	.01	.14	T.	T.	T.	T.	.37	.10	T.								3.72
Newell	Monongahela	T.			.49			.26	.14	.10	.15				.41	.03	T.	.30	.02	.20				.28	.16		T.							2.54
Parkers Landing	Allegheny		.05		.70			.70	.28	T.	.20	T.			.20	.90	.12	T.	.20	.10	.10	T.		.45	.20	T.							4.20	
Pennline	Beaver	T.	.03		.54			.73	.19	.03	.09	.01			.09	.61	.03		.02		.02	.02		.26	.14	T.							2.79	
Pittsburgh	Ohio	T.	T.		.22	.35	.44	.19	.03	.02	.04			T.	.52	.17	.02	.25	.10	T.	T.		.38	.24	.02	T.	T.			.08			3.07	
Ridgway	Allegheny	.01	T.	T.	*	.50		.10	.38	.15	T.	.12	T.		1.55	.24	.02	T.	.26	*	.04		.52										3.89	
Saegerstown	Allegheny																																	
Saltsburg	Conemaugh				.97			.45	.19	.07	.09	.04			.09	.89	.04		.67	.22				.14	.25									4.11
Sharon	Beaver				.55			.50			T.	.02			.05	1.12	.02		.04	.02			.35	.07									2.74	
Somerset	Youghiogheny	T.			.45		.04	.24	.26		.05				.68	.10	.04	.06	.34				.38											2.64
Springdale	Allegheny		.01		.98			.64	.18	.07	.09	.01			.10	.75	.03	.02	.31	.10	.01		.40	.40	T.									4.10
Tionesta	Allegheny	.10	.20		.10	.10		.20	.10		.10				.10	.10	.10		.20		.20		.20										1.80	
Uniontown	Monongahela	T.			.01	.56		.11	.19	.05		.11			.23	.07	.07	.06	.81			T.	.45	.23						.04			2.99	
Unity Reservoir	Youghiogheny				.60			.40	.25	.28	.16				.26	.29	.06	.17	1.21	.30				.30	.33								4.61	
Vandergrift	Conemaugh			.90	.03		.34	.35	.02	.02	.02				.40	.37	T.	.28		.06			.39	.41						.15			3.74	
Warren	Allegheny	.12	.02		.10	.14		.40	.28	.10	.10	.02			.55	.08		.24		.20			.32										2.70	
Washington	Ohio	T.			.43	.22		.34	.30	.04	.01	.07		T.	.72	.05	.03	.28	.24	T.			.36	.38		T.	T.				.19		3.66	
Westford	Beaver				.15			.68			.15				.15	.60					.09	T.	.35	.13	T.								2.30	
West Newton	Youghiogheny				.64			.29	.19	.07	.04				.09	.45	.02	.03	.36					.30	.19								2.67	
Zelienople	Ohio				.77			.35	.24	.02	.07	T.			.16	.85	.03	.03	.25	.03	T.	T.		.47	.14		T.						3.41	
Lake Drainage.																																		
Erie	Lake Erie	T.	.03		.22			.47	.42	.04	T.	.06			.11	.06	T.	.01	T.	.02	T.	T.	.02	.16	T.	T.							1.62	
West Bingham	Genesee																																	

Daily Temperatures for February, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	37	31	32	50	39	30	35	45	46	36	38	36	38	50	47	44	43	36	35	38	24	42	52	42	26	25	42	39	53	.....	39.0
	Minimum	6	16	12	18	29	15	15	25	35	32	29	27	18	19	32	37	36	32	11	12	14	9	10	38	18	7	.....	.....	.....	.....	21.2°
Altoona.....	Maximum	33	30	35	52	51	34	34	55	52	33	34	34	41	35	39	35	35	32	27	30	22	36	46	48	27	25	33	40	49	.....	37.1
	Minimum	18	13	16	25	33	10	23	33	29	24	27	24	13	29	32	33	29	27	6	18	6	7	30	23	7	1	18	12	22	.....	20.3
Beaver Dam.....	Maximum	35	32	47	55	53	43	42	60	56	38	35	36	49	48	42	38	42	33	25	34	25	45	45	28	28	41	43	47	.....	41.0	
	Minimum	19	13	25	35	32	21	29	37	31	29	30	24	21	35	35	34	32	25	6	21	7	11	33	20	8	6	23	18	28	.....	23.7
Brookville.....	Maximum	33	29	41	49	41	37	39	55	37	34	.....	35	45	38	35	36	37	32	28	27	25	46	44	30	21	25	33	40	45	.....	36.3°
	Minimum	10	0	17	36	16	11	18	36	24	23	.....	9	8	33	32	30	27	2	3	1	-10	-6	21	4	-4	8	0	-4	20	.....	13.0°
Butler.....	Maximum	32	32	43	50	45	43	41	55	58	35	37	45	44	46	43	36	36	32	32	22	43	44	43	28	20	32	39	44	.....	39.2	
	Minimum	15	12	23	40	32	30	27	40	29	25	29	18	15	36	34	31	27	6	17	6	5	32	18	8	2	14	12	31	.....	22.3	
Carlisle.....	Maximum	40	38	35	62	58	34	31	44	44	38	40	41	42	40	44	46	44	41	31	37	29	41	52	49	35	30	44	43	.....	41.8	
	Minimum	10	18	21	20	31	13	28	30	30	31	30	17	30	33	36	35	31	14	29	14	11	32	33	16	7	22	20	28	.....	24.1	
Catawissa.....	Maximum	38	34	23	57	39	35	35	44	40	34	37	39	46	49	41	43	42	36	35	35	37	40	52	39	25	30	42	45	54	.....	39.5
	Minimum	8	15	10	22	25	9	21	27	31	29	26	24	12	28	34	33	32	30	6	16	8	2	32	30	12	3	10	15	20	.....	19.7
Chambersburg.....	Maximum	42	38	35	65	57	35	35	45	44	38	37	42	41	37	42	45	42	41	32	36	29	40	53	49	32	31	47	44	58	.....	41.8
	Minimum	19	16	26	26	34	17	29	31	35	31	30	30	20	30	31	34	35	27	14	26	13	14	32	31	17	11	24	21	24	.....	25.1
Claysville.....	Maximum	37	34	49	57	53	44	50	62	49	37	36	42	51	55	44	36	35	35	25	31	29	45	52	50	29	28	46	47	49	.....	42.7
	Minimum	28	13	23	41	34	21	30	46	28	25	28	19	22	39	33	31	29	20	0	19	1	10	32	19	11	8	20	17	30	.....	23.2
Clearfield.....	Maximum	35	28	37	50	48	42	39	58	45	40	39	42	50	37	37	37	38	34	32	30	26	40	45	41	23	28	35	44	50	.....	39.0
	Minimum	14	14	25	32	22	11	19	35	32	28	30	26	15	32	33	34	32	29	2	16	6	0	32	23	5	-4	18	8	20	.....	20.3
Coatesville.....	Maximum	39	35	35	58	46	29	33	43	44	36	37	41	40	50	48	43	44	38	33	39	26	42	55	47	35	27	46	44	53	.....	40.7
	Minimum	14	5	11	21	24	10	20	32	32	28	24	20	14	28	35	36	35	30	10	18	12	8	36	30	18	6	17	18	20	.....	21.1
Corry.....	Maximum	28	22	38	45	40	41	37	54	44	30	30	30	50	40	37	34	37	31	21	26	20	43	40	39	15	22	31	38	36	.....	34.4
	Minimum	11	10	13	36	19	6	21	36	25	21	25	18	8	33	29	29	24	18	3	8	-6	3	32	12	-1	7	17	4	80	.....	16.9
Emporium.....	Maximum	32	25	34	49	46	36	33	51	43	31	34	33	42	36	38	37	37	32	22	34	20	38	43	41	19	23	34	37	43	.....	35.4
	Minimum	12	14	18	30	23	6	18	35	29	26	26	19	8	32	34	33	32	15	6	12	-3	-4	33	16	2	-7	20	4	21	.....	17.4
Erie.....	Maximum	29	24	45	48	32	32	46	53	37	30	31	29	48	42	38	34	37	32	28	25	20	45	45	24	14	24	34	39	39	.....	34.7
	Minimum	18	16	22	32	17	14	29	36	25	24	28	20	19	37	32	30	27	12	7	9	7	16	24	14	6	3	24	16	31	.....	20.5
Franklin.....	Maximum	33	27	45	54	38	41	49	50	35	35	33	35	45	40	35	37	36	29	30	20	24	43	43	26	17	28	34	39	43	.....	36.0
	Minimum	2	11	11	24	28	11	11	28	30	23	25	24	13	14	33	31	27	25	6	7	1	2	12	19	4	0	4	10	11	.....	15.4
Freeland.....	Maximum	38	30	26	50	46	26	32	49	42	30	25	30	34	45	40	36	40	36	24	28	15	35	49	42	20	18	33	32	44	.....	34.4
	Minimum	13	7	7	20	16	0	12	30	30	22	20	16	10	22	30	24	26	22	-1	12	-1	7	27	20	4	-6	12	12	18	.....	14.9
Gettysburg.....	Maximum	43	40	36	60	54	35	32	45	44	39	41	41	40	42	44	47	45	42	34	39	30	42	57	52	36	29	48	43	57	.....	42.7
	Minimum	20	18	23	26	36	16	27	31	26	31	30	30	19	30	34	34	31	15	28	14	14	33	33	19	11	22	22	26	.....	25.6	
Greensburg.....	Maximum	35	39	46	56	51	44	49	60	51	36	38	36	50	47	45	39	39	33	24	31	24	45	52	49	26	26	41	45	49	.....	41.6
	Minimum	25	15	27	41	34	20	28	46	29	26	28	25	21	34	34	33	29	21	5	19	5	13	33	22	11	8	19	20	33	.....	24.3
Grove City.....	Maximum	31	29	41	49	48	38	41	57	50	34	34	33	45	42	47	41	34	30	22	21	25	42	48	41	21	25	34	39	43	.....	37.2
	Minimum	-2	8	20	32	28	15	25	40	27	24	28	22	19	34	32	32	30	21	4	16	0	9	32	10	5	1	20	12	31	.....	19.8
Hamburg.....	Maximum	38	37	28	53	50	41	32	43	44	35	34	35	38	46	40	43	43	40	33	34	35	40	51	49	36	32	40	37	51	.....	39.9
	Minimum	7	15	10	20	29	12	18	31	34	30	32	22	19	14	25	30	36	35	32	9	11	12	3	34	33	16	5	17	22	.....	20.6
Harrisburg.....	Maximum	40	34	32	59	49	31	33	43	43	37	38	39	39	43	43	46	44	36	31	37	28	40	52	49	26	29	42	39	56	.....	39.9
	Minimum	21	21	22	26	24	17	26	33	34	32	30	28	21	31	35	37	44	34	22	15	22	16	15	34	26	17	11	25	28	.....	25.1
Hawley.....	Maximum	36	34	29	52	50	31	34	50	48	33	32	32	42	37	46	37	40	39	32	34	25	35	55	48	29	32	38	38	48	.....	38.5
	Minimum	1	7	-3	18	27	5	8	31	33	27	22	18	8	25	34	33	32	29	5	20	2	-10	30	29	12	10	16	15	21	.....	17.4
Huntingdon.....	Maximum	37	35	36	57	55	35	37	49	45	35	37	39	43	37	41	39	41	36	31	35	25	41	43	42	29	28	37	43	53	.....	39.3
	Minimum	19	18	18	25	34	10	21	32	34	28	31	28	14	32	31	36	33	30	11	21	12	7	32	29	12	5	23	13	21	.....	22.8
Johnstown.....	Maximum	34	31	43	55	48	38	43	56	45	35	34	37	44	38	40	37	36	33	29	31	23	40	49	45	21	26	37	45	51	.....	38.8
	Minimum	22	16	27	38	32	20	25	39	29	26	25	24	18	34	35	34	32	19	9	19	10	8	34	21	12	7	21	20	29	.....	23.6
Lancaster.....	Maximum	35	45	35	46	44	34	34	42	44	43	43	40	47	52	48	50	48	45	35	29	38	56	52	31	26	46	46	59	.....	42.6	
	Minimum	1	12	6	22	31	8	14	30	30	24	23	14	26	29	33	33	30	12	23	13	11	32	30	18	8	18	20	22	.....	20.6	
Lawrenceville.....	Maximum	34	31	33	52	46	38	36	55	45	35	35	34	42	40	40	37	37	32	27	29	28	39	48	44	22	25	26	37	44	36.8
	Minimum	5	2	6	26	20	5	16	32	31	20	23	19	6	32	35	29	28	22	4	15	-5	-4	32	22	6	-3	18	13	26		

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CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII.

MARCH, 1928.

No. 3

GENERAL SUMMARY.

This was nearly a normal month in both temperature and precipitation, there being a slight deficiency in both elements. The coldest period during the month was from the 4th to the 6th inclusive, but during that time no unusually low temperatures for the season were recorded. Temperatures slightly below zero were reported from Montrose and Brookville. A decidedly mild period covered the 24th to the 26th inclusive with temperatures 20° or more above the normal, but no records were broken. The precipitation was comparatively light during the first half of the month, followed by an unusually heavy snowstorm on the 17th and 18th, during which there was a snowfall of 12.0 inches or more at a large number of stations. The snow melted rapidly during the warm period, before mentioned, and little remained by the night of the 26th. After the big snowstorm the precipitation was light and local until the 30th when a heavy, general rain was mixed with sleet, and a heavy glaze deposit occurred in many of the mountain districts, breaking numerous telegraph and telephone wires, and damaging trees in some places. The total snow and sleet deposit for the month averaged about 50 per cent above the March normal. The lack of snow covering during the first half of the month resulted in further damage to winter grains that had suffered more or less during January and February, and as a result their condition at the end of March was rated the lowest for many years. It was apparent that an unusually large acreage would have to be plowed under and seeded to other crops. Clover was also damaged considerably. Little field work was done during the month except the hauling of manure and pruning of orchards, but during the last half of the month farmers were generally making the preliminary preparations for spring work. Plowing was begun in some places near the end of the month.

TEMPERATURE.

The mean temperature for the State, as deduced from observations of 85 stations, was 37.0°, which is 0.5° lower than the March normal in Pennsylvania. The highest monthly mean was 42.0°, at Hanover, Philadelphia Weather Bureau and Philadelphia-Germantown. The lowest monthly mean was 28.6° at Gouldsboro. The highest temperature recorded during the month was 82°, at Newell on the 13th, while the lowest, 3° below zero, occurred at Brookville on the 5th. The greatest daily range of temperature was 59°, at Montrose on the 24th.

PRECIPITATION.

The average precipitation for the State, as determined from reports of 133 well-distributed stations, was 3.24 inches, or 0.30 inch less than the monthly normal. The greatest monthly total was 5.45 inches at Elk Lick and the least, 1.65 inches at Ansonia. The greatest amount recorded in any 24 consecutive hours was 2.11 inches, at Creekside on the 29-30th. Snowfall for the month averaged 14.5 inches, which is over twice the normal for March. The greatest monthly snowfall was 39.0 inches at Elk Lick. The greatest 24-hour fall was 16.0 inches, at Somerset on the 17-18th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	Direction
Erie.....	233.9	370.6	63	72	63	69	10,543	14.2	46	sw.
Harrisburg.....	209.2	371.0	56	70	52	62	5,652	7.6	26	s.
Philadelphia.....	229.9	371.0	62	72	62	62	8,315	11.2	42	ne.
Pittsburgh.....	193.8	370.8	52	75	61	63	8,699	11.7	40	w.
Reading.....	233.9	371.0	63	74	60	67	5,689	7.6	27	nw.
Scranton.....	214.7	370.8	58	76	66	68	6,009	8.1	29	sw.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....	11
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13	9
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15	16
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16	14
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13	12
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13	11
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12	11
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13	12
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17	14
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12	10
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14	13
1902.....	41.3	78	2	3.98	7.50	6.77	10	9	12	11
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14	11
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14	11
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16	14
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6	5
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12	13
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14	13
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13	10
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8	7
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11	12
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12	14
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7	8
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9	10
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8	9
1921.....	43.0	88	7	3.33	6.15	1.05	12	9	10	14
1922.....	40.0	81	-5	4.37	6.65	2.30	11	6	14	14
1923.....	37.0	80	-8	2.49	5.21	0.70	13	8	10	11
1924.....	36.1	78	3	2.83	8.97	0.59	12	9	10	9
1925.....	40.9	79	-15	2.56	4.13	1.47	14	6	11	10
1926.....	33.1	79	-16	1.91	3.94	0.58	14	8	9	10
1927.....	42.0	82	-6	2.61	5.43	0.69	13	7	11	10
1928.....	37.0	82	-3	3.24	5.45	1.65	12	9	10	11

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.9	6.5	27	2.4	9	18
Phillipsburg.....	Delaware.....	4.3	8.0	30	2.5	12	22
Mauch Chunk.....	Lehigh.....	-1.5	0.6	31	-2.4	8	12
Wilkes-Barre.....	Susquehanna.....	7.9	17.5	28	3.6	11	20
Williamsport.....	Susquehanna.....	5.4	12.5	31	2.1	9	20
Harrisburg.....	Susquehanna.....	6.0	10.1	28	4.2	11	17
Greensboro.....	Allegheny.....	14.6	21.8	23	11.6	4	22
West Newton.....	Youghiogheny.....	3.5	7.5	31	1.3	6	20
Lock No. 4.....	Monongahela.....	16.9	22.5	23	14.0	5	31
Pittsburgh.....	Ohio.....	14.8	22.6	31	11.8	5	25
Beaver Dam.....	Ohio.....	13.1	25.3	31	8.2	7	30

Climatological Data for March, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	36.9 ¹	.....	75	26	18 ¹	10	34 ¹	2.76	-1.22	1.05	11.0	9	13	15	3	nw.	John A. Frick.
Altoona	Blair	1,615	41	36.0	-1.3	75	24	9	5	48	3.52	+0.82	1.50	28.0	15	16	2	6	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	38.1	.....	80	27	11	5	43	2.93	.....	1.35	22.0	8	17	5	9	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	38.6	-1.0	72	25 ¹	18	4	46	3.32	-0.32	1.50	12.8	10	20	3	8	nw.	Lehigh University.
Carlisle	Cumberland	467	61	39.4	+1.9	78	26	14	4	44	3.84	+0.30	1.51	27.0	8	16	5	10	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	36.6	-1.0	77	26	11	6	47	3.40	+0.35	1.48	16.8	6	23	3	5	.....	H. H. Yetter.
Center Hall	Center	1,272	32	33.2	-2.6	73	24 ¹	8	5	43	2.64	-0.61	1.35	23.5	7	21	5	5	.....	S. W. Smith.
Chambersburg	Franklin	580	28	39.5 ^c	+1.1	79 ^a	24	14 ^a	4	48 ^a	3.63	+0.63	1.32	24.7	9	10	13	8	ne.	William B. Spear.
Clearfield	Clearfield	1,120	18	36.8 ^b	-0.7	79 ^a	26	4 ^a	3	46 ^a	.....	.....	.....	18.5	14	11	14	6	sw.	E. W. Hess.
Coatesville	Chester	380	40	38.0	-1.4	77	26	10	4	46	2.84	-1.52	1.03	7.3	11	13	11	7	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	37.6	-3.0	77	26	13	6	39	3.11	-0.63	1.26	16.9	10	15	4	12	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	32.9	-2.1	72	24	1	4	44	2.88	-0.84	0.60	14.4	11	6	10	13	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	39.6	+0.6	77	26	18	6	41	2.74	-0.78	0.96	10.5	10	13	8	10	w.	Ira J. Keath.
Freeland	Luzerne	1,970	13	31.6	.....	70	26	4	5	35	4.47	.....	1.40	30.2	14	11	6	14	nw.	Theo. Reichmann.
George School	Bucks	190	21	40.0	+0.8	76	26	16	5	43	2.27	-1.19	1.00	3.6	7	20	5	6	s.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	40.7	+1.5	78	26	18	4	42	3.60	+0.44	1.34	17.3	10	8	15	8	w.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	35.2	-0.7	74	26	7	4	46	3.84	-0.48	1.60	22.0	8	18	5	8	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	28.6	.....	64	24 ¹	1	4	41	2.41	-0.85	0.98	11.0	9	16	7	8	w.	Gustav Holtz.
Hamburg	Berks	535	35	36.2	-2.2	74	26	11	5	38	2.30	-1.84	0.60	10.5	6	12	12	7	nw.	State Sanatorium.
Hanover	York	600	24	42.0	+0.4	80	26	18	6	41	3.42	+0.27	1.36	12.0	10	13	10	8	nw.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	39.2	+0.3	75	26	20	5	35	3.56	+0.44	1.31	21.6	9	6	11	14	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	9	33.5	.....	72	24 ¹	5	4	51	2.88	.....	0.89	19.2	8	16	6	9	n.	J. S. Pennell.
Holtwood	Lancaster	200	13	40.8	.....	76	26	19	4	37	2.20	-0.87	0.58	2.5	9	15	6	10	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	38.0 ^b	-0.3	77 ^b	26	7 ^b	4	49 ^b	4.54	+0.98	1.71	25.3	10	6	13	12	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	2	40.8	+0.9	81	26	11	4	49	2.88	-0.47	0.93	7.0	9	5	16	10	.....	John S. Madore.
Lancaster	Lancaster	255	40	39.2	+1.2	79	24	13	6	52	2.72	-0.73	1.08	11.0	6	20	8	3	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	33.0	-1.0	75	24	6	4	46	2.71	+0.20	1.20	20.0	6	10	6	15	.....	C. P. Darling.
Lebanon	Lebanon	469	87	37.8	-0.8	78	26	16	4	41	2.54	-1.30	0.77	10.9	7	17	7	7	w.	S. B. Benzing.
Lewisburg	Union	450	53	36.8	+1.5	78	26	11	11	45	3.82	+0.30	1.50	25.0	5	9	11	11	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	38.4	+0.6	76	26	12	4	36	3.10	-0.44	1.49	17.5	7	9	13	9	nw.	Joseph Beaver.
Lykens	Dauphin	680	13	38.2	-1.3	75	24 ¹	6	4	43	3.44	+0.57	1.49	20.5	7	18	7	6	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	35.2	-1.6	77	26	7	4	49	3.49	-1.01	1.59	14.3	5	18	5	8	nw.	R. K. Wintermute.
Mifflintown	Juniata	445	24	38.0	0.0	75	24 ¹	11	4	46	3.98	+0.32	1.52	27.0	6	13	8	10	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	25	32.4	+1.3	79	24	-1	5	59	2.05	-0.66	1.00	22.0	6	6	14	11	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	30.0	-2.0	68	25	6	5	42	3.57	-0.19	1.10	19.5	8	12	7	12	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	33.9	-2.1	72	25 ¹	4	5	41	2.00	-0.39	0.95	14.0	7	18	7	6	w.	A. H. Boatman.
Narberth	Montgomery	300	9	39.1	.....	77	26	17	4	41	.....	.....	.....	4.5	11	12	10	9	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	39	37.4	-2.1	77	26	11	6	49	2.48	.....	0.80	2.5	9	16	8	7	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	36.4	.....	75	26	12	4	35	2.60	.....	1.16	13.9	8	15	8	8	sw.	North Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	42.0	+1.2	75	26	22	5	33	2.10	-1.29	0.75	2.8	8	7	14	10	nw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	4	42.0	.....	77	26	22	5	33	2.02	.....	0.75	3.3	12	14	9	8	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	40.8	-1.3	75	24 ¹	20	4	38	2.11	-1.21	0.66	2.7	12	11	7	13	sw.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	41.8	.....	76	26	23	6	33	1.95	.....	0.60	2.7	9	11	13	7	w.	Atlantic Refining Co.
Phoenixville	Chester	100	17	41.2	+0.6	77	24 ¹	17	4	47	2.79	-0.86	1.05	7.2	7	16	14	1	w.	North Springfield Water Co.
Quakertown	Bucks	496	43	37.3	+1.0	74	26	10	6	36	3.85	-0.36	1.30	6.3	9	11	12	8	nw.	John E. Benner.
Reading	Berks	325	58	39.8	-0.2	76	26	20	6	37	2.92	-0.62	1.13	10.5	10	15	8	8	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	34.8	-0.9	72	26	13	5	38	2.05	-1.07	0.99	9.5	10	6	12	13	w.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	37.2	-1.0	76	26	14	4	43	3.44	-0.38	1.41	20.6	6	13	8	10	nw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	82	40.6	.....	73	26	19	4	37	2.60	-1.07	1.04	2.0	11	14	8	9	nw.	W. S. Guiles.
State College	Center	1,217	43	35.3	0.0	73	26	10	5	39	4.26	+0.98	1.46	26.9	12	4	15	12	w.	C. A. Kern.
Stroudsburg	Monroe	500	12	34.4	-2.4	71	26	10	4	46	2.74	-1.11	1.45	18.0	8	9	11	11	nw.	State Normal School.
Towanda	Bradford	754	33	33.3	-1.1	72	24 ¹	9	4	45	2.51	-0.24	1.30	18.0	11	8	10	13	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	30.6	-2.1	71	24	2	4	43	3.17	-0.08	1.84	20.5	7	24	1	6	w.	George W. Hill.
West Chester	Chester	455	90	39.1	+0.8	76	24	14	2	40	2.65	-1.42	1.40	7.0	6	16	10	5	w.	Joseph W. Belt.
Williamsport	Lycoming	521	41	37.0	+0.4	76	26	18	4	38	3.15	-0.20	1.43	21.8	11	15	8	8	nw.	Miss Veronica E. April.
York	York	400	40	40.2	+0.8	81	24 ¹	14	6	51	2.88	-0.42	1.29	15.6	10	13	12	6	se.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	39.3	-2.3	77	24	10	6	47	3.44	-0.11	1.18	6.5	15	7	11	13	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	32.4	.....	77	24	1	5	48	3.11	.....	0.70	.....	17	.....	.....	.....	w.	Bradford Electric Co.
Brookville	Jefferson	1,173	37	31.1	-1.8	73	24	-3	5	45	3.25	+0.19	1.00	13.5	10	21	6	4	.....	John Fawcett.
Butler	Butler	1,152	3	37.1	.....	76	13 ¹	9	6	44	4.18	.....	1.26	8.0	8	15	8	8	w.	William C. Faust.
Claysville	Washington	1,150	24	40.4	-0.2	78	13 ¹	9	5	53	3.85	+0.53	0.83	11.7	13	15	4	12	s.	J. L. Melvin.
Corry	Erie	1,430																		

Daily Precipitation for March, 1928

Stations	Drainage Basin	Day of month																														Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31		
Atlantic Drainage.																																			
Allentown	Lehigh	.03		T.							.67		.10		.02			.15	.72	.02											.77	.28	2.76		
Altoona	Juniata	.03	.07					.01		.65	.18						.10	.11	.56	.02			.03				.02	.05			.17	1.50	.02	3.52	
Ansonia	W. Br. Susq.	T.	.02			.01			T.	.03	.11				T.			.02	.34	.04					.02				.32		.52	.22	1.65		
Arendtsville	Lower Susq.		.07							.25	.85		T.		.10			.27	1.35		T.								.02		.52		2.93		
Baker's Summit	Juniata		.27							.90							.32		.72	.10							.04				.25	.76	3.36		
Bethlehem	Lehigh	.03	.01							.40	.40			.10				.14	.23	.50				.01							.25	.76	3.36		
Blosserville	Lower Susq.		.05								.70						.15		.70														2.70		
Carlisle	Lower Susq.	T.	T.	.02				T.		1.12				.10			.07	.17	1.34								.01	T.	T.		1.01		3.84		
Catawissa	N. Br. Susq.						T.			.50				.02				.21	1.27								.01	T.	T.		1.01		3.84		
Center Hall	Susquehanna	.10	T.	.12				.16		.65							.14		1.35		T.										.10	1.30	3.40		
Chambersburg	Potomac	T.	.13							1.21				.12			.19	.12	1.32		T.		T.				.02	.04			T.	.48	2.64		
Clearfield	W. Br. Susq.	.06	T.	.20		T.		.15		.50	.10	T.					T.	.10	.40		.05		.03										\$1.59		
Coatesville	Lower Del.	.14		.08						1.03		.06	.05		.05		.11		.65												.03	.61	2.84		
Colebrook	Lower Susq.	.04	T.	T.		T.					.88	.04	.02		.05		.03	.03	1.26				.03				T.				.31	.50	T.	3.11	
Conshohocken	Schuylkill									.94								.72		.28													2.35		
Cresson	Juniata	.05	.05							.70							.20	.40	.40		.14									.03		.63	1.00	.02	3.62
Doylestown	Lower Del.	.10								.68							T.		.41													.96		2.28	
Driftwood	W. Br. Susq.		.20			.20		.10		.18	.20							.65	.10												1.40	T.		3.13	
Emporium	do.		.10		.15			.10		.44						T.	.05		.60									.22	.41		.27	.52	.02	2.88	
Ephrata	Lower Susq.	.05								.59	.04	.02	.05		.05		T.	.06	.96	T.											.01	.91		2.74	
Forest City	N. Br. Susq.	.05		T.		.03	T.	T.		.15	.18						T.		.45	.02												.65	.18	1.81	
Freeland	Lehigh	.04		.14					.02	T.	1.18	T.	.01		.15		T.	.02	1.16	.18	T.			.02					.05	T.		1.05	.35	4.47	
George School	Lower Del.	.12								.32		.11	.18				T.		.51				.03									1.00		2.27	
Gettysburg	Potomac	T.		.01				T.		1.24	T.	.02	.01		.08		.24	.10	1.34													.53		3.60	
Girardville	Susquehanna	.10	.08		.02	.03				.70				.04	.09		.08	.85	.50	T.									.02		.49	1.05		4.05	
Gordon	Lower Susq.	.08	.10							.54				.12				.10	1.20													1.60		3.84	
Gouldsboro	Lehigh		.05			.09			.05		.36			.25					.38	.25												.68	.30	2.41	
Graterford	Schuylkill	.08								.46	.38	.01	.06				T.		.33					.02								1.12		2.46	
Hamburg	Schuylkill		.03							.60							.15	.30	.30												*	1.22		2.30	
Hanover	Lower Susq.		.04					T.		.93	.01	.02	.10		.06		.26	.09	1.36													.55	T.	3.42	
Harrisburg	do.	.01	T.	T.	T.			T.		1.31		T.	T.	.05		.09	.30	1.01		.01											.32	.46		3.56	
Harrisburg East	do.		.01						T.	.80	.05		.02		.06		.05	.16	1.51	.02												.87		3.55	
Harrisburg North	do.	T.								.93	.04				.06		.05	.18	1.44													.88		3.58	
Hawley	Upper Del.				.12					.71				.04			.03		.89						.12							.57	.40	2.88	
Hollisterville	do.	T.		.03	.11				T.	.70				.04			T.	.04	.82	.18					.15							.78	.35	3.20	
Holtwood	Lower Susq.		.20							.04	.58		.09	.03				.30	.52													.37	.07	2.20	
Huntingdon	Juniata		.09				T.			1.19	.07						.22	.08	1.10													.19	1.52		4.54
Hyndman	Potomac		.08				T.			.93	T.						.19	.20	.80	T.		.03						.03	.05				.61		2.88
Lakeville	Upper Del.			.08						.78				.05				.06	1.03	.20				.11								.80	.29	3.40	
Lancaster	Lower Susq.		.20							.58		.13					.10		1.08														.63		2.72
Lansford	Lehigh	.04			.03					T.	.33		T.		.05			.01	.51												.02		.86	.28	2.13
Lawrenceville	N. Br. Susq.				.30			T.		.21							.05	.85	T.												1.20			2.71	
Lebanon	Lower Susq.	T.	T.			T.				.50		.16			T.		.07	.77	.26	T.											.73	.05	2.54		
Lewisburg	W. Br. Susq.		T.				.02			.90	T.						.02		1.50													T.	1.38	3.82	
Lloyd	do.																																		
Lock Haven	do.		.06				.05			.44					.02				1.02						.02										
Lykens	Susquehanna	T.								.53	.03			.09			.03	.05	1.49	T.	T.			.02								1.49		3.10	
Mauch Chunk	Lehigh					T.				.98	.03			.02			T.		.87													1.22		3.44	
Mifflintown	Juniata	T.	T.	T.						1.10							.12	.10	1.14	T.	T.														
Montrose	N. Br. Susq.				.25					.40	.10								1.00												.10	1.42		3.98	
Morris Run	N. Br. Susq.		.11		.10		.03			.16	.05							.05	.90													.25		2.05	
Mount Pocono	Upper Del.		.18		.08					.60	.38							.10														.80		2.27	
Muncy Valley	W. Br. Susq.		T.			.02				.11	.09			.05				1.10	.10	T.				.01								1.03		3.57	
Narberth	Lower Del.	.12	T.	.02						.98	T.	.09	.14																						

Daily Precipitation for March, 1928—Continued from page 13

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam	Ohio	.06	.07	.17		.07				.12	.12				.66			.14	.15	.08						.05	.30	.25	T		1.18	.02	3.4	
Beaver Falls	Beaver	.02	.04	.03		.05	T			.01	.14	.08	T		.62			.12	.25	.10	T					.04	.18	.30	T		.95	.02	2.9	
Bradford	Allegheny	*	*	*	.35			.24	.09	*	.32	.07						.28	*	.42		.09						.45	.55		.70		3.1	
Brookville	do.	T	.20		.10			.10		.50				T			.12	.25	.05	.05										1.00	.48		3.2	
Butler	Ohio				1.00					.30				.57			.13	.60	.60	.10						.23	.36	.16		1.25		4.1		
Claysville	do.	.26		.09	T	.10				.29					.16		.10	.08	.60	.07						T	.36	.16		.75	.83	T	3.8	
Cloeff	Allegheny		.04		.08			.08		.48	*			T	T		.05	.17	.48	.03		T					.36			.75	1.22		3.7	
Clymer	Conemaugh	.17	T	.05		.10		.05		.52	*				.07		.10	.10	.50	.20		T				.04	.19	.05		1.88	T	4.0		
Confluence	Youghiogheny	.36	.03	.28		.08				.16	.42				.15			.35	.80	.13	.12		.05			.15		.10		.67	.25	4.1		
Coraopolis	Ohio	.06		.08		.04	T		.01	.18	.13		T		.49			.13	.37	.05	.03					.05	.18	.08	T	1.81	.01	3.7		
Corry	Allegheny	.01	.06	.10	.14	.01	.01	.11	.31		T		.16	.04	.79	.01		.08	.27	.04	.01		.10			T	.01	.64	T	.56	.07	3.5		
Coudersport	do.	.23	.31					.20		.80				.36				.73											.54			3.1		
Creekside	Allegheny		.06		.12			.04		.65					.13		.09	*	*	.56						*	*	.45		2.11		4.2		
Derry	Conemaugh	.27		.08		.04				.70					.09		.08		.60	T							.28		.37	1.08	.04	3.6		
Donora	Monongahela	T	.05	.25	.05		T			.41			T	T	.13		.02	.10	.60	T	.05		T	T			.34	.01		1.74	.02	3.8		
Ebensburg	Conemaugh	T	T	.16						.65						.02		.95	T								.08	T		.20	1.48		3.5	
Elk Lick	Youghiogheny	.10	.20	.70						.70					.15		.40	1.40	.40	.50								.10	.10		.70		5.4	
Falls Creek	Allegheny		.15		.10			.08		.52				.14		.15		*	.58	T		.03					.20	.15		1.24		3.3		
Franklin	Allegheny	.02		.19	.13				.11	.39					.70			.07	.21	.10	.05					.06	.10	.55		.68	.05	3.4		
Freeport	do.	.09	T	.04	.06	T	.01		.14	.26		T		.41			.12	.32	.08	.04		.01					.32			2.09	.05	4.0		
Greensboro	Monongahela	.32	T	.20	.08				.08	.16				.16		T	.27	.83	.07	.04		T	.02				.04	.55	.13	T	.62	.24	3.8	
Greensburg	Youghiogheny	.18	T	.21	T	.14		.02		.61	T			.12		.10	.06	.77	.06	.02		T				T	.30	.04		.53	.98	T	4.1	
Greenville	Beaver	T	.07	.02	.13		.03		.28				.03	.59		.02	.05	.25	.07	.06						.03	.24	.35		.08	.84	.03	3.1	
Grove City	Beaver	.04	.09	.06	.09	.02		.08		.29				.88		T	.07	.30	.01	.04						.03	.10	.96		.10	.72	.26	4.1	
Harris Isl. Dam	Ohio	.02	T	.07		.06	T			.17	.18	T			.37			.15	.70	.03	.02					.05	.65	.28		1.78	T	4.5		
Indiana	Conemaugh		.05	.01	.09	.03	.05		.02	.54				.37		.18	.04	.64	.05	T		T				.04	.69	.16		.27	1.83	T	5.0	
Ingram	Ohio	.05	.01	.09	.03	.05		.02		.54				.37		.18	.04	.64	.05	T		T				.04	.69	.16		.27	1.83	T	5.0	
Irwin	Youghiogheny	.12		.07		T	.02		.50					.07		.12	.05	.40	T	T							.03	.37	T		.34	1.39	T	3.4
Johnstown	Conemaugh	.22	.18	.02	.02	.05	T	.02	.40	.50		.01		.06		.23	.02	.88	.14		T	T	.02			.02	.12	.03		.20	1.45	.23	4.8	
Kregar	Youghiogheny	.02	.52		.11	T		T	.10	.42				.20		.26	.70	.19	.09	T					.01	.15	.11			.92	.53		4.3	
Linesville	Beaver	T	.03	.03		.10	*	.06	.02	.14	.02		.02	.69			.02		.18	.08							.08	.25	.01	.80	.08		2.6	
Lock No. 4	Monongahela	.28	.02	.21	.03			T	.26	.16		T		.13			.14	.32	.12	.05						.03	.32	.15	T	1.66	.02	3.9		
Lycippus	Conemaugh	.71		.27	.04		T		.42				.02	.13		.11	1.05	.27	T		T						.30	.04		.32	1.22		4.9	
Mount Lebanon	Ohio	.13	T	.15	T	.05		T	.39					.36		.17	.04	.60	.02	T							.58	.16		.19	1.06		3.9	
New Castle	Beaver	.06	.05	.05		.10		.05	.05	.35	.03			.72		.10	.35	.20	.05							.06	.31	1.04		.05	.74	.05	4.4	
Newell	Monongahela		.15		.15	.05			.68	.01				.12		T	.20		.30							.01	.36			1.02	T	3.0		
Parkers Landing	Allegheny	.10	.30	.10		.20	T	T	.15	.10	.35			.43			.13	.50	.10	.15	T	T	T			T	.10	.45	T		.90	.05	4.1	
Pennline	Beaver	T				.10	.06	.02	.14	.02				.70			.03	.07	.07								.41	.03			.72		2.3	
Pittsburgh	Ohio	T	.06	.02	.05	.02		.01		.50	T		T	.37	T		.20	.15	.38	.01						.04	.76	T		.95	.73	4.2		
Ridgway	Allegheny	.05	.01	.18	*	.02		.01		.25				.03			.40	.26	.02	.03		.03					.01	.12		.06	.84		2.3	
Saegertown	Allegheny																																	
Saltsburg	Conemaugh	.25	.03	.23		.10	T			.18	.27								.08	.04									.20	.02		1.41	.02	2.8
Sharon	Beaver	.02	.05			.05		.03		.33				.29			.08	.08	.02	.03								.44	.25		.50		2.1	
Somerset	Youghiogheny	.06	.04	.16		.03			.62					.42		.19		.13	.47	.06	.06		T	T			.05	.53	.15		1.99	.01	4.7	
Springdale	Allegheny	.13		.10		.08		.04		.20	.35																						4.7	
Tionesta	Allegheny						T			.27				.22		T	.03	.82	.09	.06		.02					.02	.40	.03		.16	.85	T	3.8
Uniontown	Monongahela	.32	.02	.42		.10	T			.27				.10			.18	.08	.91	.20	T						.08	.30			.52	1.02		4.7
Unity Reservoir	Youghiogheny	.33		.30	T	.05	T			.65																								
Vandergrift	Conemaugh				.06				.49				.15		.15			.50	.02									.41	.01		.94	1.44		4.1
Warren	Allegheny	.03	.04	.23	.15			.08	.14	.15	.05			.24			.20	.50	.09								.03	.42		.26	.06	2.7		
Washington	Ohio	.08	.04	.20	.06			.01		.24	.01		T	.29			.23	.30	.44	.05		T					.04	.60	.01		.79	.70	4.0	
Westford	Beaver			.05					.06	.10									.18	.03							T	.27		.10	.84	.07	2.3	
West Newton	Youghiogheny	.23		.19		.06			.11	.19				.11			.15	.38	.15	.05							.29				1.57	.03	3.8	
Zelenople	Ohio	.04	.01	.04		.07	T	T	.01	.18	.10	T			.63			.10	.25	.07	T		.01			.06	.27	.21	T		.98	T	3.0	
Lake Drainage.																																		
Erie	Lake Erie	T	.04	T	.14	.01		.01		.23	T		T	.77	T	T		T	.25	.04			T			T	.12	.06		.20	.29		2.1	
West Bingham	Genesee																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. * Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ‡ Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg.

Mdt. to mdt.

Daily Temperatures for March, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	41	38	33	41	32	36	43	45	33	37	38	47	59	52	47	37	46	37	39	40	42	40	50	67	68	75	45	51	49	43	45	45.0
	Minimum	25	23	18	10	9	14	18	16	29	25	25	32	31	35	29	28	25	23	21	24	23	35	35	38	46	74	72	43	44	47	37	28.8
Altoona.....	Maximum	45	33	32	50	43	34	42	47	36	39	35	54	56	53	41	36	37	35	33	35	40	50	57	75	67	74	72	43	44	47	37	45.9
	Minimum	25	23	18	10	9	14	18	16	29	25	25	32	31	35	29	28	25	23	21	24	23	35	35	38	46	74	72	43	44	47	37	26.2
Beaver Dam.....	Maximum	44	37	37	48	48	36	48	45	48	43	60	65	74	68	44	40	35	35	34	41	49	58	64	77	76	74	72	43	39	51	42	50.8
	Minimum	25	25	17	14	15	10	25	19	36	26	26	34	35	36	31	30	18	25	25	25	27	33	37	35	45	48	25	22	33	35	25	27.8
Brookville.....	Maximum	33	34	27	46	28	33	44	40	36	40	47	60	63	40	40	33	39	36	36	38	43	45	36	73	63	72	43	43	39	49	38	43.1
	Minimum	23	19	2	1	-3	0	5	-1	25	16	14	28	27	30	27	24	20	24	20	24	20	16	20	28	30	31	34	16	17	29	22	19.1
Butler.....	Maximum	40	34	32	47	44	29	36	43	41	43	47	50	76	72	41	40	35	38	31	36	43	54	58	74	76	76	66	41	42	50	44	47.7
	Minimum	22	24	15	10	9	24	16	33	25	27	30	35	35	30	28	19	25	21	25	25	35	38	33	46	46	22	22	31	35	22	26.5	
Carlisle.....	Maximum	51	42	37	46	44	42	50	52	46	41	39	49	56	53	48	46	41	40	40	44	47	54	60	73	70	78	75	51	53	48	47	50.4
	Minimum	33	25	24	14	17	20	19	24	27	30	14	33	28	42	35	32	27	28	25	16	23	32	38	29	50	40	32	28	30	35	30	28.4
Catawissa.....	Maximum	41	33	37	43	32	38	39	46	36	41	44	62	62	50	47	43	48	39	41	43	48	48	56	74	71	77	61	50	44	41	43	47.7
	Minimum	30	24	21	12	14	11	17	19	24	22	19	32	27	40	33	29	28	27	25	18	16	25	33	27	37	36	31	23	30	32	25	25.4
Chambersburg.....	Maximum	49	41	37	46	43	41	54	51	45	41	39	50	56	53	50	43	39	39	38	41	45	58	63	79	71	77	69	.....	.....	44	50.1	
	Minimum	32	27	17	14	17	20	20	25	29	32	22	33	31	43	35	31	29	30	27	21	21	30	39	31	46	40	37	.....	.....	29	28.9	
Claysville.....	Maximum	37	38	37	50	47	40	53	50	52	45	66	70	78	71	47	47	36	34	35	44	48	60	68	78	76	77	76	42	47	57	45	53.3
	Minimum	25	23	15	14	9	10	24	17	36	25	28	41	43	34	27	28	20	24	25	24	34	28	43	49	52	23	25	30	30	23	27.5	
Clearfield.....	Maximum	34	31	32	50	44	43	52	48	48	48	70	64	63	41	51	43	39	35	39	54	48	62	74	65	79	70	50	.....	.....	50.7	23.0	
	Minimum	24	21	4	6	9	10	18	12	29	24	17	31	29	35	30	26	25	24	22	23	26	21	31	28	31	38	30	21	.....	.....	29	28.9
Coatesville.....	Maximum	48	40	36	42	38	37	48	46	35	38	40	52	49	51	48	39	45	42	39	43	46	53	57	76	73	77	64	51	51	40	45	48.0
	Minimum	31	18	24	10	19	15	16	24	24	22	34	31	40	27	31	30	31	26	24	28	32	35	30	56	43	34	16	31	35	30	28.1	
Corry.....	Maximum	35	31	30	40	24	31	35	37	35	31	50	60	62	55	32	29	35	30	31	32	40	43	53	74	66	70	66	37	37	40	36	42.2
	Minimum	17	18	7	9	8	4	19	6	26	15	18	31	31	30	24	21	14	21	20	18	21	34	30	36	41	47	18	19	24	25	19	21.6
Emporium.....	Maximum	36	34	28	41	25	31	37	39	36	37	40	56	58	52	38	34	30	33	34	34	43	45	51	72	60	68	57	41	38	45	38	42.6
	Minimum	24	24	12	1	7	11	18	8	25	21	15	34	27	36	31	27	21	25	15	24	30	29	28	36	38	24	20	32	28	24	23	23.2
Erie.....	Maximum	32	36	23	42	20	28	38	31	38	26	50	55	65	36	32	28	30	28	30	32	42	45	56	75	60	71	38	35	34	36	36	39.6
	Minimum	21	22	13	20	12	13	24	19	20	19	23	36	32	28	24	22	24	24	24	24	27	33	33	56	53	36	23	26	26	23	26	26.4
Franklin.....	Maximum	33	34	25	44	25	34	39	45	40	35	55	62	70	40	37	32	39	30	33	37	46	49	59	75	63	72	30	40	40	46	40	43.5
	Minimum	21	19	13	10	7	11	12	12	20	20	27	29	32	27	25	15	18	21	23	22	25	34	32	37	44	22	21	23	29	20	22	22.0
Freeland.....	Maximum	38	34	29	34	32	28	34	35	30	32	36	50	53	45	40	33	39	34	38	42	41	42	43	68	65	70	60	41	44	38	37	41.5
	Minimum	18	16	14	7	4	7	14	12	18	16	17	28	35	34	27	22	21	24	19	17	17	27	26	33	48	44	25	15	22	29	19	21.8
Gettysburg.....	Maximum	52	41	39	45	44	41	53	45	45	39	39	51	55	53	50	45	40	41	39	43	45	56	59	76	74	78	72	51	52	50	48	50.4
	Minimum	33	26	25	18	20	19	25	25	30	32	22	35	34	45	33	30	29	29	26	26	32	49	54	63	43	34	30	34	36	29	31.0	
Greensburg.....	Maximum	37	34	35	48	42	31	46	47	49	47	58	64	75	62	44	39	36	39	32	38	43	53	62	76	68	75	80	43	53	59	39	50.1
	Minimum	25	24	19	14	12	12	23	20	34	26	29	39	44	36	31	30	24	25	25	26	27	33	38	45	49	51	25	27	31	33	24	29.1
Grove City.....	Maximum	38	34	31	45	38	36	45	45	47	46	60	62	75	64	45	46	38	41	34	36	44	50	58	70	69	72	69	44	41	39	40	48.5
	Minimum	19	22	12	14	8	12	26	16	33	32	27	43	46	45	47	40	42	41	35	37	42	46	44	67	69	74	65	40	56	45	38	46.0
Hamburg.....	Maximum	52	40	41	40	34	38	44	43	36	37	43	46	57	48	47	40	42	41	35	37	42	46	44	67	69	74	65	40	56	45	38	46.0
	Minimum	19	22	15	15	11	15	12	30	27	24	20	28	30	32	30	28	26	27	22	20	27	34	29	46	40	33	24	33	32	28	26.4	
Harrisburg.....	Maximum	42	40	33	44	35	40	47	49	35	38	37	49	56	50	48	37	40	36	37	41	46	51	58	71	68	75	65	49	51	44	42	46.9
	Minimum	30	28	25	22	20	22	27	29	30	28	26	34	37	41	37	30	30	30	27	24	27	35	41	38	53	46	32	29	34	31	31.5	
Hawley.....	Maximum	48	36	37	39	38	27	35	38	38	34	36	53	58	56	43	38	44	41	35	36	41	42	41	72	71	72	66	41	41	38	37	44.3
	Minimum	27	20	12	5	6	7	18	21	23	5	31	25	40	32	26	26	28	25	23	26	27	27	21	34	34	29	20	26	30	24	22.7	
Huntingdon.....	Maximum	45	38	36	51	49	39	46	49	42	41	39	57	.....	61	.....	40	41	38	37	40	45	52	60	76	72	77	71	48	49	49	42	49.3
	Minimum	30	27	22	7	14	20	17	19	27	28	19	33	.....	28	.....	29	27	26	26	28	16	35	38	27	44	38	29	27	28	35	28	26.2
Johnstown.....	Maximum	36	37	33	49	30	37	47	50	42	36	47	61	65	50	42	35	38	33	35	38	43	54	61	76	65	75	64	45	52	49	39	47.6
	Minimum	25	25	21	14	14	18	21	23	32	27	25	35	33	38	32	30	29	27	25	28	29	35	39	34	48	48	26	27	32	29	26	28.9
Lancaster.....	Maximum	55	48	43	42	45	44	51	54	53	48	45	48	46	48	45	41	49	36	42	44	49	55	59	79	73	77	76	52	56	51	45	51.6
	Minimum	30	21	23	15	18	13	19	21	25	28	2																					

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. APRIL, 1928. No. 4

GENERAL SUMMARY.

The month averaged considerably below normal in temperature and well above in precipitation. The first week was warm, with temperatures well up in the eighties at several stations, but the last three weeks were almost continuously subnormal, with frosts and freezing temperatures persisting until near the close of the month. The average precipitation, 5.50 inches, establishes a new record for April in Pennsylvania, the previous wettest April being 5.41 inches in 1901. The average snowfall, while not the greatest of record for the month, was more than twice the normal amount. The greatest portion of the snow fell in the storm of the 27-28th, when falls exceeding 15 inches were recorded at several stations in the western and south-central counties, with a total for the two days of 31.0 inches at Somerset. This snow was very moist and had practically disappeared in all parts of the State at the end of the month. The storm caused considerable damage and many communities were cut off from the outside world for several hours, due to wires snapping under the weight of the heavy snow deposit. Due to the continued subnormal temperatures during the last three weeks of the month vegetation made little progress but no serious frost damage was reported. Wheat was damaged by winter killing, particularly in the western part of the State and considerable wheat was plowed under and sown to oats and corn during the month. At the end of the month oats seeding was well advanced in the southeastern counties, with some of the first seedlings coming up. Early gardens made little progress and considerable seed seems to have rotted in the ground. Fruit trees remained dormant longer than is usual and thus escaped serious damage that might have resulted if they had bloomed at the normal time. Small fruits appeared to be in good condition at the end of the month. Pastures and meadows were in fair to good condition and growing slowly.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as deduced from observations taken at 84 stations, was 46.0°, or 2.8° less than the normal for the month. The highest monthly mean was 50.6° at Philadelphia Weather Bureau and the lowest was 39.8° at Gouldsboro. The highest temperature recorded during the month was 88°, at Bradford on the 7th, and the lowest was 11°, at Brookville and Elk Lick on the 16th. The greatest daily range of temperature was 52 degrees at three stations:—Claysville on the 18th; Phoenixville on the 20th and George School on the 26th.

PRECIPITATION.

The average precipitation for the State, as determined from observations at 134 well-distributed stations, was 5.50 inches, or 2.13 inches in excess of the April normal. The greatest monthly amount was 9.82 inches, at Somerset, while the least, 2.11 inches, fell at Sharon. The greatest amount recorded in any 24 consecutive hours was 4.08 inches at Somerset during the storm of the 27-28th. Snowfall averaged 6.5 inches, which is 3.7 inches greater than the monthly normal. The greatest total snowfall for the month was 38.5 inches at Somerset. The greatest 24-hour fall reported was 26.0 inches at Carlisle on the 27-28th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		Date
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	
Erie.....	278.0	401.1	69	66	62	66	10,680	14.8	47	sw. 14
Harrisburg....	240.0	398.6	60	65	49	55	5,998	8.3	34	sw. 19
Philadelphia....	228.5	398.6	57	70	62	65	8,875	12.3	47	ne. 27
Pittsburgh.....	198.4	399.9	50	69	57	58	8,624	12.0	45	w. 19
Reading.....	246.5	398.6	62	61	51	56	5,470	7.6	31	sw. 19
Scranton.....	243.1	399.9	61	76	64	64	6,136	8.5	38	sw. 19

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	Of inch or more prec.
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6	8
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11	11
1890.....	48.6	85	12	3.46	5.50	1.75	11	8	11	11
1891.....	49.8	87	11	2.08	3.54	1.12	13	9	8	8
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13	14
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12	10
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10	8
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9	10
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13	12
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6	6
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16	11
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12	9
1903.....	48.8	90	12	3.58	4.93	2.16	11	7	12	10
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14	13
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10	12
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8	9
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13	11
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10	12
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11	13
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11	13
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12	13
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13	15
1913.....	50.6	90	17	3.82	9.28	1.46	12	6	12	11
1914.....	47.3	98	5	4.66	7.50	1.90	10	8	12	14
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7	8
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12	14
1917.....	48.5	87	14	2.08	4.89	0.41	11	10	9	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11	14
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10	11
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12	16
1921.....	55.3	96	10	3.11	5.06	1.12	13	7	10	11
1922.....	50.1	91	11	3.17	6.10	1.28	12	9	9	12
1923.....	48.3	89	-5	2.94	5.89	1.00	14	8	8	9
1924.....	46.5	82	6	4.15	7.52	1.77	13	7	10	12
1925.....	51.3	96	9	2.82	4.89	0.93	15	7	8	10
1926.....	44.9	84	9	2.03	4.35	0.85	12	9	9	9
1927.....	47.7	92	17	3.52	5.59	1.65	12	7	11	13
1928.....	46.0	88	11	5.50	9.82	2.11	12	8	10	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	5.4	8.6	24	4.0	6	18
Phillipsburg.....	Delaware.....	7.1	9.8	28	5.4	22	22
Mauch Chunk.....	Lehigh.....	0.2	1.9	30	1.0	20	12
Wilkes-Barre.....	Susquehanna.....	10.4	16.1	25	6.8	21	20
Williamsport.....	Susquehanna.....	7.9	12.0	9	4.8	21	20
Harrisburg.....	Susquehanna.....	7.9	11.3	30	5.7	22	17
Greensboro.....	Allegheny.....	15.1	27.8	30	11.7	21	22
West Newton.....	Youghiogheny.....	4.0	9.0	30	1.9	21	20
Lock No. 4.....	Monongahela.....	17.6	26.9	30	14.9	20	31
Pittsburgh.....	Ohio.....	15.6	22.2	30	12.5	21	25
Beaver Dam.....	Ohio.....	14.3	21.9	1	9.4	21	80

Climatological Data for April, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	16	47.0	.....	82	5	28	1†	42	5.34	+1.50	1.70	T.	8	12	13	5	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	41	44.1	-4.1	80	5	19	16	38	7.53	+4.66	1.51	25.0	16	17	6	7	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	4	46.2 ^b	.....	82 ^b	6†	21 ^a	17	49 ^b	6.75	.....	5.0	.....	13	14	4	12	nw.	Dr. S. W. Frost.
Bethlehem.....	Northampton.....	295	44	49.4 ^b	-2.5	79 ^b	5†	28 ^b	16	40 ^b	5.20	+2.05	1.44	.....	12	15	7	8	e.	Lehigh University.
Carlisle.....	Cumberland.....	467	61	48.8	-3.4	84	5	24	16	42	7.03	+3.70	2.87	26.0	11	16	6	8	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	31	47.0	-4.3	84	5	22	18	50	6.50	+3.09	1.52	4.0	11	14	5	11	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	32	44.3	-4.6	82	5	17	16	43	6.62	+3.48	3.40	25.5	11	19	4	7	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	28	47.5	-2.3	85	5	21	18	41	5.98	+3.14	1.18	10.5	15	12	8	10	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	18	45.8	-2.5	84	5	18	16	49	6.60	+3.19	1.20	7.0	16	8	11	11	w.	E. W. Hess.
Coatesville.....	Chester.....	380	40	47.1	-3.7	81	19	20	17	42	5.43	+1.80	2.00	T.	12	13	10	7	nw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	18	46.9	-3.0	83	5	21	18	40	5.90	+1.93	.....	8.0	15	17	3	10	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	40	42.6	-4.5	79	5	17	16	43	6.86	+3.53	1.41	2.5	13	8	14	w.	T. B. Lloyd.	
Ephrata.....	Lancaster.....	380	27	48.4	-1.6	82	5	25	18	40	4.98	+1.43	1.68	T.	11	15	4	11	w.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	13	41.6	.....	75	5	16	16	36	6.94	.....	1.95	18.0	15	8	10	12	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	21	49.0	-1.1	85	26	25	18	52	5.66	+2.06	1.08	T.	11	19	4	7	nw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	54	48.6	-1.8	82	5	25	16†	37	7.29	+3.69	2.14	3.5	13	12	9	9	w.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	24	45.1	-2.8	81	5	17	18	49	7.11	+2.45	2.50	10.0	15	14	7	9	nw.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	4	39.8	.....	74	5	18	16	40	3.30	-1.40	0.72	7.4	11	14	7	9	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	35	46.9	-3.5	80	5†	22	2†	46	5.27	+1.02	1.91	T.	11	10	13	7	w.	State Sanatorium.
Hanover.....	York.....	600	24	50.4	-2.6	83	5	25	16	38	6.87	+3.58	2.50	4.0	12	15	6	9	w.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	58	48.0	-2.9	80	5	28	16	34	6.22	+3.73	2.99	2.4	10	7	10	13	w.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	9	44.0	.....	81	5	16	2	49	5.95	.....	1.55	6.0	10	14	9	7	nw.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	13	48.7 ^a	.....	80 ^a	19	31	16†	36 ^a	5.34	+2.63	2.37	1.0	10	14	8	8	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	40	46.4	-3.2	83 ^a	5	18 ^a	18	43	7.07	+3.70	2.74	6.5	15	12	7	11	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	2	48.4	-2.5	86	5	22	16†	42	7.00	+3.43	1.49	T.	16	9	7	14	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	40	46.4	-4.4	83	19	20	18	41	5.23	+1.69	2.03	T.	10	18	4	8	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	30	43.9	-1.9	87	5	21	2†	47	3.53	+0.39	1.00	6.0	8	13	8	9	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	87	47.6	-2.9	83	5	26	16	48	5.50	+2.13	2.32	1.2	12	16	7	7	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	53	47.7	-0.5	84	5	23	16	45	7.00	+3.48	2.15	7.0	14	10	7	13	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	38	43.8	-1.5	87	5	21	16	42	6.64	+3.26	1.50	8.0	14	12	10	8	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	13	47.7	-3.0	84	5	18	18	47	7.34	+4.07	3.12	2.0	12	17	4	9	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	37	44.8	-4.0	82	5	20	18	50	7.30	+3.38	1.74	T.	15	15	7	8	s.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	24	47.1	-2.7	82	5	23	18	42	6.84	+2.43	2.00	3.0	13	15	3	12	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	25	43.2	-0.9	80	4†	17	17	41	5.07	+1.57	1.20	16.0	13	9	11	10	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	24	40.4	-2.6	78	4	19	17	46	3.60	-0.58	1.20	9.0	10	6	12	12	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	16	43.6	-4.6	79	5	18	18	44	6.14	+1.61	2.00	2.0	11	16	8	6	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls††	Bucks.....	60	39	46.4	-3.7	84	19	21	17	45	5.15	.....	1.35	T.	9	16	7	7	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	11	46.6	.....	83	5	22	18	46	4.71	.....	1.00	0.8	12	11	12	7	sw.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	57	50.6	-1.5	81	19	31	16	36	5.55	+2.50	1.56	1.0	10	10	9	11	w.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	4	50.4	.....	82	19	31	16	37	5.15	.....	1.17	1.0	10	14	6	10	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	12	49.0	-2.5	83	19	30	16	38	4.85	+1.61	1.33	1.0	10	15	5	10	w.	Commandant, Navy Yard.
Phila. Point Breeze.....	Philadelphia.....	90	3	50.0	.....	82	19	30	16	37	5.46	.....	1.45	1.0	10	7	14	9	w.	Atlantic Refining Co.
Phoenixville.....	Chester.....	100	17	50.1	-2.1	82	19	25	2†	52	5.28	+1.79	1.55	T.	9	16	7	7	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	43	46.9	-1.5	80	5	22	17	46	5.79	+2.56	1.41	1.2	13	15	7	8	nw.	John E. Benner.
Reading.....	Berks.....	325	58	49.0	-1.3	81	5	29	16	37	5.95	+2.73	2.22	3.0	11	12	10	8	w.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	33	45.2	-2.9	80	5	25	16	38	5.03	+2.38	1.33	2.2	13	10	6	14	s.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	38	47.1	-2.8	80	5	25	16†	41	5.43	+1.89	2.03	4.2	13	15	6	9	w.	Dr. George E. Fisher.
Shawmont††	Philadelphia.....	51	32	49.7	.....	80	19	28	17†	36	5.84	+2.67	1.69	T.	12	17	5	8	nw.	W. S. Guiles.
State College.....	Center.....	1,217	43	44.2	-3.5	80	5	20	16	42	6.92	+3.64	1.73	18.1	16	7	13	10	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	12	45.2	-3.7	80	5	22	17	46	5.54	+1.76	1.20	1.0	10	13	10	7	nw.	State Normal School.
Towanda.....	Bradford.....	754	33	44.8	-1.8	81	5	21	2	36	5.23	+2.30	1.75	8.0	12	9	8	13	s.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	62	41.7	-2.9	79	5	19	20	44	4.74	+1.16	1.50	14.0	11	18	2	10	w.	George W. Hill.
West Chester.....	Chester.....	455	90	47.7	-2.0	80	5†	26	16	39	5.35	+1.57	1.70	T.	8	16	9	5	w.	Joseph W. Belt.
Williamsport.....	Lycoming.....	521	41	47.2	-1.4	83	5	25	16	40	6.74	+3.36	1.88	1.0	12	9	11	10	sw.	Miss Veronica E. April.
York.....	York.....	400	40	48.9	-1.8	85	5	21	18	46	6.94	+3.91	2.50	3.0	13	14	10	6	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver.....	700	35	46.4	-3.7	80	6	19	16	43	3.23	+0.10	0.82	.....	18	8	3	19	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,460	13	43.2	.....	88	7	16	10†	46	3.85	.....	0.91	.....	16	12	0	18	w.	Bradford Electric Co.
Brookville.....	Jefferson.....	1,173	37	40.4	-5.4	80 ^b	6	11 ^b	16	49 ^b	4.20	+1.34	1.00	5.5	10	13	7	10	.....	John Fawcett.
Butler.....	Butler.....	1,152	3	44.6	82	7	17	15	43	4.10	1.15	1.5	10	13	5	12	w.	William C. Faust.
Claysville.....	Washington.....	1,150	24	48.0	-2.6	85	6	16	16	52	4.35	+0.86	0.93	10.6	15	12	5	13		

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Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown	Lehigh												.94	.02		.62								.60	.54	.61	T.			1.70	.31		5.34		
Altoona	Juniata	.06		.53	.02			.70	.94	T.		.28	.58		.47		.62	T.					.85	.53	.35	.33	T.	.16		.20	1.51	.02		7.53	
Ansonia	W. Br. Susq.				.25			.69	T.	T.			T.	.18	.38	T.	T.							.70	.36	.32	T.			.52	.43	.02	3.86		
Arendtsville	Lower Susq.		.04					.76					1.11		.42	.22								.60	.25	.85	.08		*	2.29	.06	.07	6.75		
Baker's Summit	Juniata			.72				1.20				.11	.60	.30									.64	.25	.35		.06			2.19			6.42		
Bethlehem	Lehigh							.15				.77		.62				.04						1.16	.33	.41	.01		.07	1.44	.19	.01	5.20		
Blosserville	Lower Susq.											.65		.85				.65						.50	.10					2.70	.15		5.60		
Carlisle	Lower Susq.	T.						T.	.68			T.	.88		.47			T.						.41	.48	.36	.18			.63	2.87	.02	.05	7.03	
Catawissa	N. Br. Susq.							.62				.18	.61	.76				.15						.52	.55	.44	T.	T.		1.10	1.52	.05		6.50	
Center Hall	Susquehanna			.05				.01	.38				.01					.18						.60	1.35	.24	.22			.18	3.40			6.62	
Chambersburg	Potomac	.01	.11					.13	.99			.22	.96	.42										.41	.33	.55	.08			.74	.98	.02	.03	5.98	
Clearfield	W. Br. Susq.	T.		.09				.70		T.		.30	.90	.10	.50			.10						.80	.30	.60	.40	.20	T.	.20	1.20	.10	.11	6.60	
Coatesville	Lower Del.							.09				.10	.28	.34				.01		.01				.53	.45	.96	.10			.56	2.00			5.43	
Colebrook	Lower Susq.			.03				.30	.03			.42	.13		.71	T.		.03		T.				.54	.50	.60	.05			*	2.63	.02	.01	5.90	
Conshohocken	Schuylkill							.42			T.	.48		.32				.01						.66	.55	1.12				1.13	.61			5.30	
Cresson	Juniata	.08		.58				1.92				1.13			.38	.02								.66	.48	.39	.20	.06			1.20	1.40			8.50
Doylestown	Lower Del.			T.				.24				.51	T.	.39				.07						.02	.97	1.18	.45	.05		.48	1.19	.05	.01	5.61	
Driftwood	W. Br. Susq.			.34				1.44				.75	.06	.31				.01	.01	.12				*	1.15	.50	.10			.90	.25	.25	6.19		
Emporium	do.			.51				1.41	.11	T.		.33	.77	.81	T.		.18						.72	.64	.37	T.	T.		.20	.70		.11	6.86		
Ephrata	Lower Susq.							.03				.04	.51	.52	T.		.02						.38	.54	.76	.09				.41	1.68		T.	4.98	
Forest City	N. Br. Susq.							.32				.54	.04	.43	.34	T.				.09				1.39	.28	.49			T.	T.	1.06	.35	.27	5.60	
Freeland	Lehigh			.01				T.	.70			.96	.02	.10	.76	T.		.22	.02					.65	.50	.42	.06	T.		1.95	.51	.06	6.94		
George School	Lower Del.							.14				.59		.28				.13						.57	.44	1.08	.99	.05		.47	.92			5.66	
Gettysburg	Potomac	.01	.04					.51				.17	1.17	.51										.26	.48	1.03	.19	T.		.77	2.14	T.	.01	7.29	
Girardville	Susquehanna							.56				.73	.12	1.00										.41	.73	.32	.15	.01		.63	1.17	.20	.14	6.32	
Gordon	Lower Susq.			.02				.65				.93		.96	.11			.12		T.				.18	.79	.28	.21	.06			.18	2.50	.05	.07	7.11
Gouldsboro	Lehigh							.35				.68		.25	.15					.08				.29	.32	.42				.72	.02	.02	3.30		
Graterford	Schuylkill							.16	.93			.04	.93	.26				.02						.06	.96	.74	.63				.17	1.20	.61	.04	5.82
Hamburg	Schuylkill							.21				.87	.74					.06						.11	.87	.22	.05				.17	1.91		.06	5.27
Hanover	Lower Susq.	T.						.40				.10	.93	.46										.22	.45	1.11	.20	T.		.48	2.50	.01	.01	6.87	
Harrisburg	do.			T.		T.		.51	T.			.64	.10	.48				T.						.58	.28	.45	T.			1.79	1.38		.01	6.22	
Harrisburg East	do.			.01				.06	.48			.83	.01	.55										.28	.66	.40	.11				.50	2.36	.03	.02	6.30
Harrisburg North	do.			.02				.53				.83	.01	.47										.86	.09	.57					2.88	.52	.02	6.80	
Hawley	Upper Del.			T.				.54				.76		.20	.21									.90	.72	.49	.02				1.55	.56		5.95	
Hollisterville	do.							.67				.72	T.	.04	.49									.75	.68	.46	.02	T.			1.34	.05	T.	5.22	
Holtwood	Lower Susq.							.05				.43		.09	.21									.52	.26	1.14	T.				2.37	.25	.02	5.34	
Huntingdon	Juniata	T.		.35	.01			.71	.25			.54		.32	T.		T.							.72	.45	.33	.09	.09		.41	2.74	.03	.03	7.07	
Hyndman	Potomac	.19	.18					.80	.28			.53	.49	.22										.83	.21	.47	.21	.02			.96	1.49	.11	.01	7.00
Lakeville	Upper Del.							.62				.73		.06	.40									1.04	.77	.50					1.87	.78		6.77	
Lancaster	Lower Susq.							.12				.50						.03						.07	1.10	1.32				*	2.03	.03	.03	5.23	
Lansford	Lehigh							.05				.85		.08	.80					.23				*	.93	.34					1.65	*	.38	5.31	
Lawrenceville	N. Br. Susq.			.10				.45				T.		.45	.15			T.						T.	1.00	.28	T.				T.	.80	.30	3.53	
Lebanon	Lower Susq.			T.				.35				.65	.02	.05				T.						.68	.23	.39	T.				2.32	.13	.01	.07	5.50
Lewisburg	W. Br. Susq.			.04				1.05				T.	.72	.73				.14						.60	.55	.35	.14	.01			.33	2.15	.04	.15	7.00
Lloyd	do.			.15				*	.69	T.			.18	.42										.12	.74		.16	T.			.28	.25		.01	3.06
Lock Haven	do.			.05				.95				.63	.02	.26	.09			.11	.06					.67	.57	.46		.07			1.22	1.50		.04	6.64
Lykens	Susquehanna							.88				T.	.94	.78	.04			.09						.20	.64	.26	.21				.17	3.12	.06	T.	7.34
Mauch Chunk	Lehigh							1.22				.03	1.01	.67	.13			.04						.53	.62	.39	.08	.03			.64	1.74	.07	.05	7.30
Mifflintown	Juniata			.13				T.	1.05			T.	.60	.62				.01						.50	.60	.25	.11				.36	2.00	.09	.02	6.34
Montrose	N. Br. Susq.											.44		.25										.30	1.10	.29	.24				.15	1.20	.20	.15	5.07
Morris Run	N. Br. Susq.																																		

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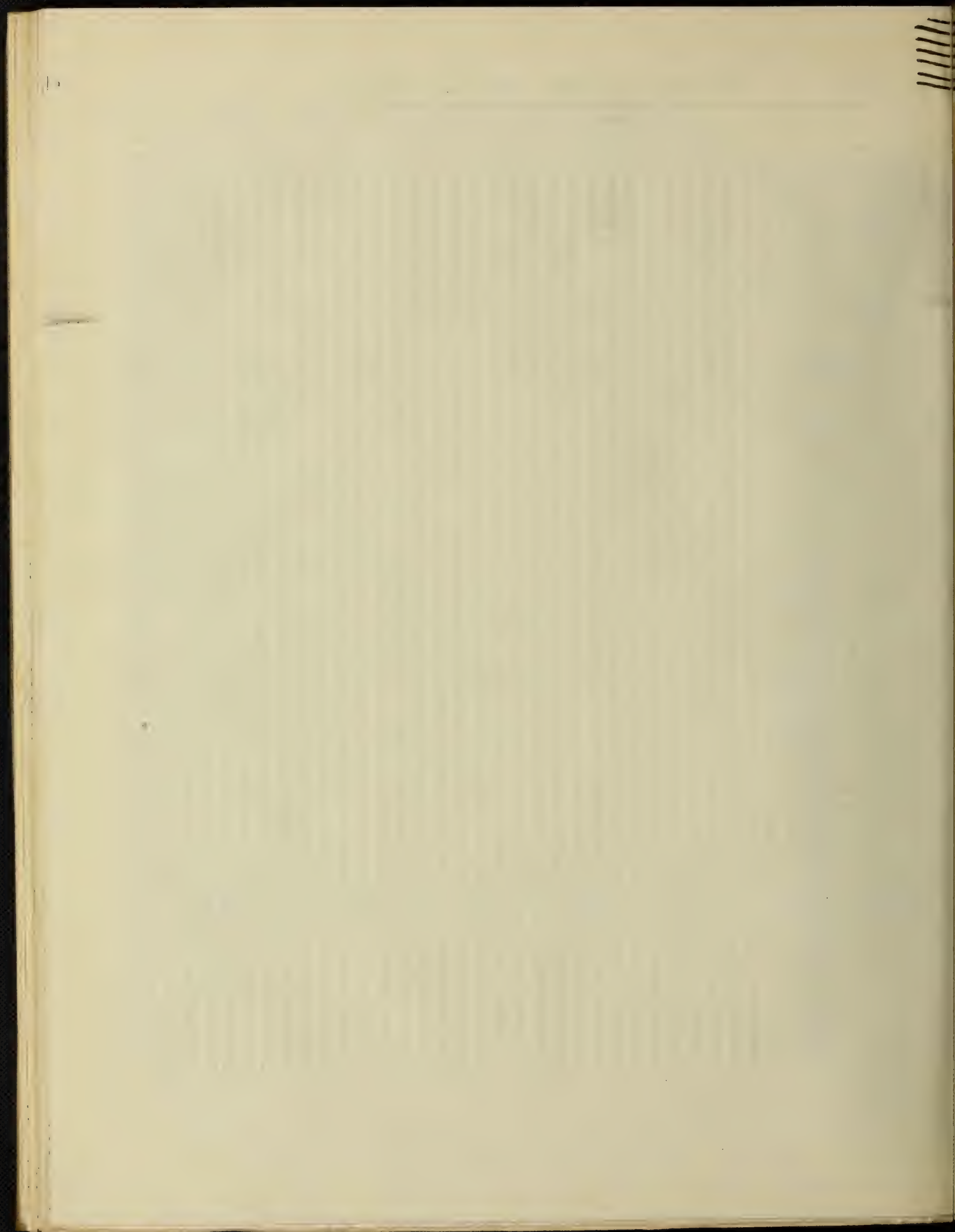
Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.	.02	.07		.51				.34	.02			.16	T.	.12	.16	.03			.11		T.	.82	.38	.09	.09	.01		.16	.01	.13		3.23
Beaver Falls|||	Beaver	.05	.04		.35				.38	.02			.20		.12	.02	.02	T.		.02		.01	.90	.31	.04	.07		.11	.01	.12		2.79	
Bradford	Allegheny			.40					.38	.70	.09	.03	.07	.22	.39	.02		.01				.30	.91		T.	.05			.10	.08		3.85	
Brookville	do							1.00				.75	T.	.25				.10				.50	.50		.05		.35	.55	.15		4.20		
Butler	Ohio.	.07		.22					.67				.30									.30	1.15	.23	.26	.52	T.	.38			4.10		
Claysville.	do	.30						*	.11			.25	.13		.31					.05		.93	.45	.38	.24	.02	.05	.18	.86		.09	4.35	
Cloett.	Allegheny			.20					.90	T.		.97	.05		.43			.10				.67	.48	.35	.10			.09	.63	.03	.06	5.06	
Clymer||.	Conemaugh.	*		.44					.72	.40	*		.80		.42	T.		.02		.09		.55	.49	.31	.09	.06		.06	1.82		.15	6.42	
Confluence||.	Youghiogheny		.30						1.00				1.05		.25							.80	.28	.54	.24	.08		.1.60	.53	.04		6.76	
Corapolis|||	Ohio.	.08	.13		.48				.53	.01		.25	T.	.13	.03	T.	T.					T.	.74	.40	.21	.11	.02		.80	.02	.06	4.00	
Corry	Allegheny.			.43				.44	.22	.17	T.	.32		.35	.01	T.	.09			T.		.87	.70	.11	.02	.06	T.		.38		.17	3.96	
Coudersport	do			.26				1.10		.33		.45		.95								.74	.24	.12				.21	.71			5.11	
Creekside.	Allegheny	.05		.42				*	1.11			.84		.34	.01		.02		.05			.79	.49		.52			*	1.05	.06		5.75	
Derry	Conemaugh.	.14		.41				.80		.37		.49	.37		T.							.63	.71	.54	.17			.13	1.64		.04	6.07	
Donora|||.	Monongahela		.39		.03			.03		.64		.79		.23	T.	.03	T.	T.		.02		.35	*	1.13	.26	.21		.03	1.30	*	.09	5.53	
Ebensburg	Conemaugh.			.54				1.00	T.			.60	.70		.52	T.		T.				.81	.61	.46	.19	.16		T.	1.10	.20	.05	6.94	
Elk Lick	Youghiogheny		.20					1.42		.10		.50		.06								.90	.50	.10	.65	.10	1.00	1.60	.20			7.23	
Falls Creek.	Allegheny			.17				.37	.66			.84		.51			.08					.32	.75	.17	.06	.09		*	1.12		.08	5.22	
Franklin|||	Allegheny				.28				.54	.02		.18		.28	T.		.29					1.10	.19		.23			T.		.17		3.28	
Freeport||	do	T.	.06		.38				.66			.55	.01	.20	.04	.02				.05		.90	.50	.24	.08			.72	.16	.10		4.67	
Greensboro.	Monongahela.	T.	.27					.72		.38		.90		.27	.02					T.		.02	.80	.38	.40	.16		T.	1.47	.58	T.	5.99	
Greensburg.	Youghiogheny	.26		.15				.67	.03		.41	.36		.33	.05							.61	.61	.45	.17	.06	.01	.20	1.50	T.	.05	5.92	
Greenville.	Beaver	.06		.28	T.			.24	.03	T.		.27		.40	T.		.15				1.02	.28	.08	.16	.05				.26		.26	3.28	
Grove City	Beaver	.05		.30	T.			.32	.11	.03		.14		.30	.01		.05					.80	.21	.06	.34	.01				.01	.13	2.87	
Herrs Isl. Dam|||.	Ohio.	.02	.17		.33				.51			.48	.01	.14	.08	T.						T.	.85	.53	.25	.09	T.		.82	.09	.05	4.42	
Indiana.	Conemaugh.																																
Ingram	Ohio.	.20	T.	.39				.56	.03	T.		.33	.11	.16	T.					T.		1.00	.50	.30	.07	.04	.01	.30	.96		.02	4.98	
Irwin.	Youghiogheny	.21	.12	.33				.15	.04			.42	.25	.31	T.							1.00	.40	.35	.06	.01		.10	.70	.05	.05	4.55	
Johnstown	Conemaugh.	.11		.78				1.08	T.			.85	.18	.38	.05		.01			.01		.85	.52	.48	.39	.01		.90	1.10	.10		7.80	
Kregar|||.	Youghiogheny	.37		.05				1.00	T.			.98		.40	.09	T.		.07				.43	.71	.44	.17			1.47	.75	.05	T.	6.98	
Linesville||.	Beaver		.02		.19	T.			.34	.15	.05	.22	T.	.17	.08	T.	.02	T.				1.08	.06		.15					.23		2.76	
Lock No. 4|||.	Monongahela.	T.	.43		.02			.73	T.	.05		.73		.28	.07	.02	T.		.02			T.	.80	.55	.37	.20	.01		1.08	.16	.06	5.53	
Lycippus.	Conemaugh.	.19		.24				.60				.47		.36	.19							.50	.87	.39	.11			.22	2.48			6.62	
Mount Lebanon	Ohio	.30		.16				.56	T.			.35		.23	T.					T.		.60	.47	.37	.13	.01		.45	.81		.01	4.45	
New Castle|||.	Beaver	.02	.01	.07	.27			.32	.20	.10		.22	T.	.18	.02	.02	.02		.02		T.	.88	.13	.03	.03	.01	T.	.04	T.	.09		2.68	
Newell.	Monongahela.	.10	.24					.28	.50			.60		.24	.02							.45	.67	.23	.25	.11		.02	.62	.32	.03	4.68	
Parkers Landing|||.	Allegheny		.05		.38			.70	T.			.30	T.	.20	.08	T.	.10		T.			.85	.30	T.	.05			.20	T.	.15		3.36	
Pennline|||||.	Beaver		.01		.20	T.		.51	.31	.03		.18		.17	.06			T.				1.05	.09		.17			.37	.46	.01	T.	2.99	
Pittsburgh**.	Ohio.	.17		.35				.43	.02			.38	.03	T.	.14	T.			T.			.88	.50	.24	.07	T.		.37	.46	.01	T.	4.05	
Ridgway.	Allegheny			.33				.64	.47	T.		.94		.41	T.		.06					.36	.46	.17	.06	.02		.04	.37	.06	.12	4.51	
Saegerstown.	Allegheny.							.70				.34		.23	.12	T.	T.						1.28	.36	.14			1.18	.74	.11		5.73	
Saltsburg|||.	Conemaugh.	.05	.03		.45							.34		.23	.12	T.	T.																
Sharon|||.	Beaver		.10		.29				.13			.26		.16	.02	T.	.02						.96	.09							.08	2.11	
Somerset.	Youghiogheny	.18	.22				1.20	.05			.50	.60		.35	T.							.64	.35	.38	.29	.10	.05	.15	4.08	.60	.08	9.82	
Springdale|||.	Allegheny	.03	.09		.50			.78	.01			.60	T.	.16	.02	.01	T.					.64	.56	.31	.06				.85	.11	.08	4.81	
Tionesta.	Allegheny.																																
Uniontown.	Monongahela.	.38	.02					.64	.09		1.02	.10		.28	T.					.02		.42	.43	.42	.23	.05	.09	.47	2.20		.02	6.88	
Unity Reservoir||.	Youghiogheny	.32	.02	.15				.62	.03		.47	.37		.22								.40	.70	.47	.20	.05		.32	1.90		.05	6.29	
Vandergrift||.	Conemaugh.	.11		.66							1.05	.06	.01	.32								1.30	.34	.12				.61	.71	.08		5.37	
Warren.	Allegheny.			.20	.22			.40	.50	.10	.10		.10	.08	.15	.12		.10		.05		.50	.45	.08		.10			.08		.30	3.63	
Washington.	Ohio.																																
Westford|||.	Beaver							.38	.10			.26		.10	T.							1.10			.03	.15					.20	2.32	
West Newton|||.	Youghiogheny	.03	.29		.02			.71				.74		.21	.05							.71	.49	.34	.15			.83	.11	T.		4.68	
Zellenople|||.	Ohio.	T.	.05		.27			.34	.01			.23	T.	.15	.12	T.	T.	T.		.01		T.	.95	.35	.07	.06			.13	T.	.12	2.86	
Lake Drainage.																																	
Erie***	Lake Erie.			.70				.22	.18	T.		.13	.06		.13	T.		.05		T.	T.	.89	.10	.02	.03		T.			.03	.03	2.57	
West Bingham.	Genesee.																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink of; Unity Reservoir, Greensburg. ‡ Mdt

Daily Temperatures for April, 1928

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum.....	51	55	59	79	82	79	78	60	52	48	48	58	55	67	45	50	44	58	81	57	51	42	49	61	52	49	43	43	62	73	58.0	
	Minimum.....	28	31	31	40	43	52	48	37	34	33	32	35	37	37	28	29	28	36	29	35	37	38	38	39	35	33	36	36	37	41	36.1	
Altoona.....	Maximum.....	40	53	67	77	80	78	74	53	43	46	43	53	59	67	48	42	41	60	71	56	51	42	46	52	46	46	43	35	57	68	54.6	
	Minimum.....	26	25	38	41	51	45	53	33	28	24	28	32	34	43	26	19	26	22	44	32	31	37	40	36	29	32	32	32	38	38	33.6	
Beaver Dam.....	Maximum.....	45	59	70	76	79	80	79	56	42	47	51	57	60	62	52	45	46	65	66	60	51	57	53	50	52	42	45	45	68	70	57.7	
	Minimum.....	29	26	39	42	48	44	54	32	30	23	23	36	32	48	29	19	28	22	53	33	37	44	39	36	33	29	31	33	36	47	35.2	
Brookville.....	Maximum.....	44	56	68	77	79	80	56	.....	39	59	52	52	59	63	34	43	41	63	66	62	45	50	44	61	48	49	47	35	69	.....	55.0 ^b
	Minimum.....	21	18	31	31	35	32	37	.....	19	16	22	28	25	30	22	11	16	14	31	24	24	40	35	30	27	28	25	26	28	.....	55.0 ^b
Butler.....	Maximum.....	40	68	56	77	78	81	82	64	38	43	50	53	57	62	38	40	43	58	63	50	42	53	54	48	50	45	44	41	60	68	55.0	
	Minimum.....	23	25	45	43	48	40	63	30	28	20	28	34	31	48	17	18	29	18	55	32	31	41	38	36	31	31	28	31	38	44	34.1	
Carlisle.....	Maximum.....	48	59	62	80	84	80	78	70	52	53	50	59	66	73	73	51	45	60	80	72	60	45	48	60	52	61	53	37	64	74	61.6	
	Minimum.....	30	28	37	38	44	42	54	43	35	33	32	32	35	45	34	24	28	25	40	38	33	37	39	41	37	32	34	32	35	42	36.0	
Catawissa.....	Maximum.....	55	60	60	82	84	81	78	59	53	49	48	58	67	69	44	50	42	62	73	58	49	49	50	60	50	58	46	41	63	74	59.1	
	Minimum.....	25	24	35	32	46	48	57	42	32	38	28	31	39	40	33	23	24	22	45	34	31	37	38	37	34	33	33	31	32	43	34.9	
Chambersburg.....	Maximum.....	46	56	63	76	85	78	73	61	50	49	47	60	64	70	68	50	50	59	78	67	55	46	49	61	51	54	49	38	60	72	59.5	
	Minimum.....	25	28	32	38	44	42	57	42	35	35	32	33	33	47	33	24	26	21	42	39	32	38	40	40	37	32	33	32	31	42	35.5	
Claysville.....	Maximum.....	67	65	76	80	84	85	79	53	46	48	50	58	63	69	48	48	50	73	69	61	55	60	57	53	51	51	48	43	67	72	60.6	
	Minimum.....	31	30	47	51	56	53	49	29	28	21	30	33	32	44	26	16	25	21	56	33	36	47	38	32	30	25	31	30	32	47	35.3	
Clearfield.....	Maximum.....	67	70	72	79	84	83	80	78	62	60	53	43	62	63	51	47	44	63	58	68	57	55	52	49	56	46	47	37	65	70	60.9	
	Minimum.....	36	30	26	32	41	34	47	31	23	21	24	26	29	42	27	18	26	21	21	31	28	32	36	34	33	31	28	32	32	40	30.6	
Coatesville.....	Maximum.....	47	57	60	76	80	79	77	62	50	49	41	60	64	67	65	48	42	58	81	63	53	45	48	62	52	55	50	44	62	73	59.0	
	Minimum.....	27	26	29	34	45	46	50	45	34	36	29	33	36	43	36	22	20	21	40	35	24	37	40	41	40	34	35	34	36	49	35.2	
Corry.....	Maximum.....	48	58	64	74	77	78	74	51	31	41	55	54	52	59	44	40	40	61	58	43	43	49	50	48	44	46	44	41	61	64	53.1	
	Minimum.....	22	20	42	47	57	45	51	27	22	16	25	33	31	40	21	16	25	20	36	25	25	37	34	30	28	31	27	32	31	45	31.4	
Emporium.....	Maximum.....	48	55	62	75	79	78	69	51	39	46	51	50	58	60	41	42	40	60	66	51	44	46	45	52	47	50	47	39	61	68	54.0	
	Minimum.....	22	21	38	38	42	35	49	32	31	19	22	34	22	39	27	17	24	19	40	31	23	38	41	34	32	36	29	34	31	36	31.2	
Erie.....	Maximum.....	43	58	68	77	78	79	71	40	33	36	52	56	48	60	30	25	26	30	31	32	29	31	35	36	34	32	36	34	34	38	50	35.9
	Minimum.....	31	30	49	57	61	59	40	29	27	27	29	37	37	30	25	26	30	31	32	29	31	35	36	34	32	36	34	34	38	50	53.7	
Franklin.....	Maximum.....	41	56	65	75	78	79	68	37	36	47	54	56	59	63	32	44	44	63	61	49	48	52	46	47	47	45	46	44	66	62	43	23.3
	Minimum.....	22	23	24	38	39	39	43	30	27	19	21	29	30	38	24	15	20	18	24	29	27	38	35	35	29	33	27	29	31	43	53.1	
Freeland.....	Maximum.....	44	49	53	74	75	72	70	60	43	43	44	52	55	60	55	43	44	54	70	59	50	71	57	48	48	62	52	55	51	37	61	30.2
	Minimum.....	20	24	24	38	50	48	48	35	25	23	25	32	37	25	16	22	22	37	28	25	29	33	31	28	28	31	29	28	40	71	60.1	
Gettysburg.....	Maximum.....	46	57	63	74	82	80	76	60	52	49	45	60	65	70	68	49	50	59	80	71	57	48	48	62	52	55	51	37	61	75	37.2	
	Minimum.....	26	31	34	39	48	51	56	44	35	35	32	32	37	47	35	25	27	25	43	42	35	37	40	42	37	33	35	32	34	47	37.2	
Greensburg.....	Maximum.....	45	61	72	78	82	81	78	50	43	50	47	54	60	70	46	43	46	69	68	58	54	55	54	52	46	45	42	34	63	47	57.2	
	Minimum.....	30	30	47	50	56	54	49	33	30	25	35	32	32	45	26	19	29	23	54	33	36	47	39	38	31	29	32	32	33	46	36.5	
Grove City.....	Maximum.....	67	64	70	73	78	77	66	52	36	46	53	57	56	62	46	41	42	62	61	50	46	50	50	48	47	54	44	43	63	67	55.4	
	Minimum.....	29	24	44	44	44	57	45	51	29	26	21	31	35	33	45	26	17	29	20	49	31	31	40	36	36	31	30	28	40	49	34.5	
Hamburg.....	Maximum.....	49	55	57	78	80	78	76	76	51	55	47	57	63	66	48	52	45	57	80	73	56	45	55	59	50	56	56	41	61	71	59.8	
	Minimum.....	31	22	28	32	45	43	45	34	33	33	32	30	33	36	34	23	28	22	40	38	30	36	38	39	37	36	30	33	36	42	34.0	
Harrisburg.....	Maximum.....	47	56	61	77	80	78	74	57	49	48	43	60	65	70	47	50	42	57	78	57	48	45	48	59	51	55	44	39	61	72	57.3	
	Minimum.....	32	32	39	43	52	52	40	38	34	33	34	43	47	33																		



CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. MAY, 1928. No. 5

GENERAL SUMMARY.

The month as a whole was moderately cold and dry, deficiencies in both temperature and rainfall being reported from all parts of the State. The soil was completely saturated by melting snows at the close of April, and consequently the shortage in rainfall during May was not harmful to crops. A few complaints of dry top soil were received near the end of the month. The deficiency in temperature was just enough to make for a slow germination of corn and of some truck crops. The conditions were generally favorable for grains and grasses, and good growths were reported. Wheat continued to improve, and, except for the large number of fields that were spotted by winter killing, the crop was good. It was beginning to head at the close of the month. Oats seeding was practically finished in the southern counties during the first week, and early sown fields were coming up. The first cutting of alfalfa was ready for harvest at the end of the month, and was generally promising. Early field potatoes came up nicely and were being cultivated. Orchard fruits were reported in all conditions from very poor to excellent. Late frosts damaged or killed the fruit in localities. In some places it was unharmed, while in others it was almost a total loss. The berry crop was very promising, and strawberries were coming to market at the close of the month. The only damage by weather conditions was a heavy hail storm in Snyder and Juniata counties on the 22d. It covered an area about a mile in width and ten miles in length and seriously damaged wheat fields and orchards, while the accompanying winds tore up large trees and did some damage to buildings. The total losses were estimated at upwards of \$15,000. Melting snows flooded many streams at the beginning of the month, but did little damage outside of Pittsburgh, where the losses were estimated to be about \$2000.

TEMPERATURE.

The mean temperature for the State, as shown by reports from 85 stations, was 58.0°, or 1.5° less than the May normal. The highest monthly mean was 62.4°, at Philadelphia-Weather Bureau and also at Philadelphia-Germantown, while the lowest, 50.7°, was recorded at Mount Pocono. The highest temperature recorded during the month was 95°, at Lancaster on the 4th, and the lowest, 20°, at Ridgway and Somerset on the 13th. The greatest daily range of temperature was 59°, at Bradford on the 4th.

PRECIPITATION.

The average precipitation for the State, as computed from observations of 135 stations, was 2.23 inches: a deficiency of 1.76 inches as compared with the monthly normal. The greatest monthly total was 5.10 inches, at York Haven, and the least 0.65 inch at Erie. The greatest amount recorded in any 24 consecutive hours was 3.00 inches, at Franklin on the 17th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		Date
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	
Erie.....	401.7	451.8	89	63	55	59	6,719	9.0	31	sw. 5
Harrisburg.....	234.2	446.2	52	66	45	54	4,140	5.6	33	sw. 5
Philadelphia.....	276.6	446.2	62	72	60	64	6,318	8.5	31	n. 12
Pittsburgh.....	307.7	449.0	69	69	49	53	6,009	8.1	28	nw. 5
Reading.....	280.7	446.2	63	63	46	55	4,183	5.6	19	se. 5
Scranton.....	288.0	449.0	64	66	49	53	3,940	5.3	28	sw. 5

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....	16
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....	11
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13	15
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11	8
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14	16
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14	16
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8	9
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9	10
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10	12
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14	15
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10	11
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14	15
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7	8
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6	7
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9	11
1905.....	60.8	93	22	5.59	5.17	0.56	11	9	11	12
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9	10
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11	15
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9	10
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10	12
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4	7
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9	11
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6	9
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13	14
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8	13
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12	13
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6	14
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11	14
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6	8
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9	11
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8	10
1923.....	58.3	93	20	3.50	7.43	1.23	19	6	6	8
1924.....	54.6	92	18	5.71	9.64	3.31	9	9	13	17
1925.....	55.2	98	22	3.49	7.98	1.02	13	10	8	11
1926.....	58.8	95	18	1.78	5.52	0.62	17	10	4	8
1927.....	58.2	92	23	4.14	7.23	1.75	9	9	13	16
1928.....	58.0	95	20	2.23	5.10	0.65	15	9	7	10

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.9	7.8	1	3.1	18	18
Phillipsburg.....	Delaware.....	5.4	9.9	1	3.0	18	22
Mauch Chunk.....	Lehigh.....	0.8	1.7	1	1.9	30	12
Wilkes-Barre.....	Susquehanna.....	8.5	20.0	1	4.7	18	20
Williamsport.....	Susquehanna.....	4.6	13.5	1	2.3	18	20
Harrisburg.....	Susquehanna.....	6.4	14.6	2	4.5	19	17
Greensboro.....	Allegheny.....	13.4	33.3	1	11.0	14	22
West Newton.....	Youghiogheny.....	2.6	1.6	1	1.1	81	20
Lock No. 4.....	Monongahela.....	16.1	32.5	1	13.5	14	31
Pittsburgh.....	Ohio.....	12.8	24.9	1	10.9	15	25
Beaver Dam.....	Ohio.....	10.5	27.5	1	7.6	24	30

Climatological Data for May, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	58.9	.....	90	4	37	13	44	2.50	-1.12	1.35	0	11	15	10	6	ne.	John A. Frick.
Altoona	Blair	1,615	41	57.4	-2.0	87	4	33	7	42	1.86	-2.16	0.96	0	11	19	11	1	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	59.8 ^a	.....	91 ^a	5	33 ^a	13	45 ^a	3.34	.....	1.15	0	11	20	4	7	n.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	60.6	-2.4	89	5	40	13	41	2.55	-1.17	1.32	0	10	18	8	5	nw.	Lehigh University.
Carlisle	Cumberland	467	61	61.2	-0.2	92	4	34	8	49	3.90	+0.07	1.18	0	12	21	3	7	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	58.4	-3.0	92	4	30	14	51	1.60	-1.98	0.53	0	9	21	2	8	.....	H. H. Yetter.
Center Hall	Center	1,272	32	57.9	-1.9	86	10	28	8	48	0.75	-3.25	0.22	0	8	23	6	2	.....	S. W. Smith.
Chambersburg	Franklin	580	28	58.8	-2.4	87	5	31	14	45	1.75	-1.90	0.56	0	14	11	8	12	s.	William B. Spear.
Clearfield	Clearfield	1,120	18	57.6 ^b	-2.2	90 ^b	4	26 ^b	13	53 ^b	1.45	-3.33	0.88	0	6	14	12	5	w.	E. W. Hess.
Coatesville	Chester	380	40	59.4	-2.3	89	4	28	13	44	2.37	-1.66	0.46	0	14	9	14	8	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	58.8	-0.2	89	4	34	13	44	3.62	+0.30	1.88	0	12	15	6	10	sw.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	55.0	-3.7	87	4	25	8	48	2.17	-2.28	0.60	0	9	18	6	7	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	59.6	-1.3	88	4	34	14	43	1.92	-1.61	0.87	0	13	15	4	12	nw.	Ira J. Keath.
Freeland	Luzerne	1,970	13	56.0	.....	84	4	30	13	36	2.63	.....	0.74	0	11	11	11	9	nw.	Theo. Reichmann.
George School	Bucks	190	21	59.4	-1.6	91	5	34	13	40	2.38	-1.23	0.66	0	11	13	10	8	s.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	61.4	+0.1	91	5	36	10	43	2.24	-1.73	0.66	0	13	12	9	10	w.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	56.4	-2.1	90	4	27	13	51	2.75	-1.01	0.92	0	6	16	8	7	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	52.0	.....	80	5	30	13	43	2.69	-1.36	0.90	0	9	14	10	7	w.	Gustav Holtz.
Hamburg	Berks	535	35	59.5	-2.2	89	4	30	13	46	2.50	-2.00	1.16	0	9	12	16	3	w.	State Sanatorium.
Hanover	York	600	24	61.8	-2.1	91	5	36	13	43	2.38	-0.92	1.23	0	12	15	8	8	sw.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	60.9	-0.9	89	4	41	14	38	2.22	-1.45	1.30	0	10	6	16	17	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	9	56.0	.....	89	4	29	8	50	2.52	.....	0.63	0	10	17	9	5	n.	J. S. Pennell.
Holtwood	Lancaster	200	13	61.0	.....	88	5	41	14	36	1.87	-1.31	0.98	0	10	15	6	10	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	59.0	-1.7	91	4	27	14	51	0.92	-3.40	0.32	0	9	16	6	9	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	2	58.3	-2.5	92	4	26	11	52	1.03	-2.17	0.41	0	5	11	7	13	.....	John S. Madore.
Lancaster	Lancaster	255	40	59.9	-1.1	95	4	29	14	55	2.38	-0.90	0.64	0	15	16	12	3	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	56.9	-0.6	90	4	27	8	49	2.48	-1.38	0.78	0	7	17	9	5	.....	C. P. Darling.
Lebanon	Lebanon	469	87	60.0	-1.0	90	4	35	10	46	2.89	-1.14	1.50	0	10	21	3	7	nw.	S. B. Benzing.
Lewisburg	Union	450	53	60.2	-1.7	93	4	32	14	50	1.74	-2.19	0.46	0	12	15	9	7	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	61.5	-0.4	93	4	32	13	49	2.18	-1.66	0.69	0	9	12	17	2	w.	Joseph Beaver.
Lykens	Dauphin	680	13	59.6	+0.5	92	4	30	14	51	1.88	-2.41	0.73	0	9	16	7	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	57.5	-2.6	89	4	30	14	50	1.74	-2.27	0.75	0	7	15	12	4	s.	R. K. Wintermute.
Mifflintown	Juniata	445	24	58.8	-1.9	93	4	29	14	50	1.81	-1.93	0.48	0	11	17	7	7	w.	Wellington Smith.
Montrose	Susquehanna	1,720	25	54.2	-0.8	87	4	26	13	38	3.31	-0.39	0.93	0	11	12	11	8	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	50.7	-4.0	82	4	25	8	34	1.41	-2.38	0.46	0	10	14	10	7	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	55.8	-1.4	86	4	25	13	45	2.63	-1.74	0.98	0	8	16	13	2	w.	A. H. Boatman.
Narberth	Montgomery	300	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls	Bucks	60	39	58.4	-0.9	91	5	31	8	42	2.73	.....	0.90	0	11	13	9	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	57.2	.....	91	4	29	8	49	1.84	.....	0.62	0	12	17	11	3	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	62.4	-0.5	90	5	43	9	34	2.19	-1.07	0.92	0	13	8	9	14	n.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	4	62.4	.....	90	5	42	9	34	2.33	.....	0.62	0	12	13	9	9	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	61.8	+0.1	91	5	42	13	36	1.91	-1.40	0.63	0	14	13	9	9	e.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Atlantic Refining Co.
Phoenixville	Chester	100	17	61.0	0.0	91	4	31	10	50	2.98	-0.98	0.61	0	10	18	12	1	nw.	North Springfield Water Co.
Quakertown	Bucks	496	43	58.5 ^a	-1.1	89 ^a	4	30 ^a	14	46 ^a	3.65	-0.37	1.50	0	14	12	7	12	nw.	John E. Benner.
Reading	Berks	325	58	61.0	-1.5	89	4	41	13	38	2.76	-0.61	1.53	0	10	12	8	11	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	57.9	-1.5	89	4	37	25	40	2.63	-0.81	0.73	0	10	6	13	12	n.	U. S. Weather Bureau.
Sellinsgrove	Snyder	455	38	58.6	-2.5	91	4	30	14	49	1.84	-2.24	0.70	0	8	16	6	9	s.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	61.0	.....	89	5	38	13	38	1.83	-1.63	0.58	0	10	12	11	8	nw.	W. S. Guiles.
State College	Center	1,217	43	58.0	-1.1	88	4	34	7	40	1.01	-2.96	0.26	0	9	15	9	7	nw.	C. A. Kern.
Stroudsburg	Monroe	500	12	56.2	-3.7	90	4	30	8	48	1.81	-1.80	0.45	0	13	11	7	13	nw.	State Normal School.
Towanda	Bradford	754	33	55.8	-2.2	83	4	30	14	46	2.84	-0.37	0.97	0	10	11	11	9	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	55.2	-1.6	90	4	25	8	50	2.32	-1.73	0.56	0	8	21	6	4	nw.	George W. Hill.
West Chester	Chester	455	90	60.4	-0.3	88	5	37	13	38	3.21	-1.24	0.77	0	11	12	17	2	w.	Joseph W. Belt.
Williamsport	Lycoming	521	41	59.2	-1.5	93	4	33	8	49	3.05	-0.15	0.72	0	11	16	10	5	sw.	Miss Veronica E. April.
York	York	400	40	59.8	-1.9	94	4	29	14	51	1.75	-1.63	0.56	0	11	13	12	6	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	58.4	-2.0	88	4	31	13	49	1.82	-1.30	0.72	0	14	10	8	13	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	55.8	.....	91	4	22	8	59	1.19	.....	0.24	0	9	16	1	14	w.	Bradford Electric Co.
Brookville	Jefferson	1,173	37	53.0 ^a	-3.5	88 ^a	4	21 ^a	14	55 ^a	1.75	-1.92	1.05	0	3	18	11	2	.....	John Fawcett.
Butler	Butler	1,152	3	57.2	.....	88	4	27	14	49	1.68	.....	0.82	0	6	23	2	6	w.	William C. Faust.
Claysville	Washington	1,150	24	59.4	-1.9	93	4	27	13	52	2.49	-0.95	1.00	0	13	18	3	10	n.	J. L. Melvin.
Corry	Erie	1,430	16	54.2	+0.4	86	4	23	13	49	1.30	-3.38	0.56	0	9	16	9	6	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	31	57.8	-3.7	84	4	30	14	43	2.09	-1.36	0.84	0	11	15	1			

Daily Precipitation for May, 1928

Continued on page 24

Daily Precipitation for May, 1928—Continued from page 23

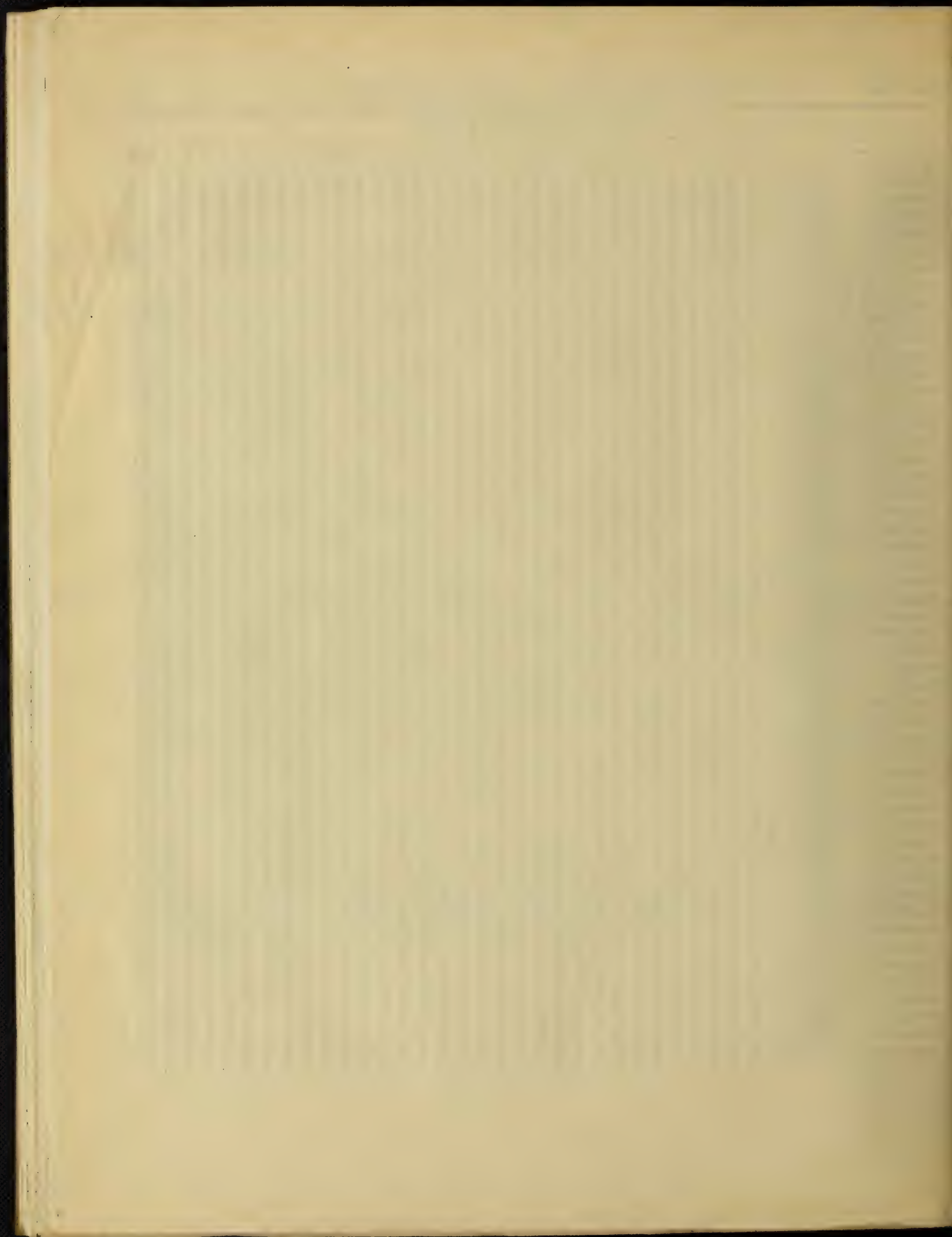
Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Ohio Drainage.																																			
Beaver Dam|||	Ohio.....						.03					.04	.28					.02	.12	.15	.72						.12	.03	.18	.03	.05	.03	.02	1.82	
Beaver Falls|||	Beaver.....	T					.02					.07	.16					.01	.21	.01	.42						.06	.06	.05	.03	T	.02	.03	1.15	
Bradford.....	Allegheny.....	.18																.02	.10		.15						.24	.08	.15	.19	.08		1.19		
Brookville.....	do.....																T	1.05	.45	T									.25				1.75		
Butler.....	Ohio.....											.12		.12				.41	.29	.53											.21		1.68		
Claysville.....	do.....					.03						.26					.03	.15	.15	.14	1.00						.28	.01	.02	.04		.20	.18	2.45	
Cloeff.....	Allegheny.....					T						.10						.46	.55	.52									.08	.07	.18		1.96		
Clymer|||	Conemaugh.....					T						.32					T	.11	.16	.33	.90							T	.33	.07		.23	.06	2.51	
Confluence|||	Youghiogheny.....												.35					.20		.23	.12					.16	.08			T	.10	T	.25	1.49	
Corapolis|||	Ohio.....	T					.02					.06	.21					.03	.24	.55	.47	T				.11	.03	.03	T	T	.03	.10	1.88		
Corry.....	Allegheny.....	.04				.05											.01	.10	.13	.56	T							.04		.35	T	.02		1.30	
Coudersport.....	do.....																.21		.24	.26							.10	.22	.16		.06		1.25		
Creekside.....	Allegheny.....					.04						.19						*	*	1.50									.42		.29		2.44		
Derry.....	Conemaugh.....					.07						.34						.13		.22	.15					.06		.13	.22	.12	.32	.33	2.09		
Donora|||	Monongahela.....						.05					.09	.21				.03	.12	.19	.12	.34					.14			.14	.03	.09	.20	1.75		
Ebensburg.....	Conemaugh.....											.27						.05	.10	.52	.04	.40							.35	.10	.22	.15	2.20		
Elk Lick.....	Youghiogheny.....											.45	.05					.24		.15						.25					.38	.10	1.62		
Falls Creek.....	Allegheny.....											.06							1.12		.40						.06		.14		.06		1.84		
Franklin|||	Allegheny.....	.03															*	.04	3.00	.44	.21								.08	.04	.53	.04	.13	4.54	
Freeport|||	do.....					.05						.02	.27					.01	.10	.85	.86						T	T	.05	.01		.14	.04	2.40	
Greensboro.....	Monongahela.....	T				.08							.15					.08	.24	T	.14	.57					.45	.06	.05		.08		1.90		
Greensburg.....	Youghiogheny.....					.05	.03					.24					T	.25	.05	.27	.23					.06	T	.25	.02	.12	.14	.31	2.02		
Greenville.....	Beaver.....	.04				.01						T					.03	.82	1.12	.27							.12		.03	T	.08		2.52		
Grove City.....	Beaver.....	.01				.04						T					.01	.12	.77	.93	.07						.11	.02	.02	.09	.06		2.24		
Herr's Isl. Dam|||	Ohio.....					.03						T	.17					.02	.28	.38	.10					.09		T	T	.08	.08	.03	1.26		
Indiana.....	Conemaugh.....											.25						.02	.31	.08	.30	.12					.15	.04	.01	.07	T	.11		1.49	
Ingram.....	Ohio.....					.03												.21	.17	.94	.45					.10	.02	.02	.05	.12	.10	.20	2.54		
Irwin.....	Youghiogheny.....					T						.16						.01	.20	.10	.33	.08					.01		.23	.22		.13		1.66	
Johnstown.....	Conemaugh.....	T				.01						.34						.02	.14	.07	.23	.29					.07		.18	.03	.18	.17	.39	2.27	
Kregar|||	Youghiogheny.....					.08						.42						.02	.14	.07	.23	.29						.18	.03	.18	.17	.39		1.97	
Linesville|||	Beaver.....	.17				T							.25					.02	1.08	.22	.07						.15	T	.13	.03	.13	.12		1.52	
Lock No. 4|||	Monongahela.....					.06												.03	.19	.08	.23						.15	T	.14	.02	.10	.11	.16	2.81	
Lycippus.....	Conemaugh.....					.17						.31							.20	.90	.59							.07		.13			.44		1.46
Mount Lebanon.....	Ohio.....					.04						.15					T	.21	.35	.03	.16					.18	T	.07	.12		.15	T	1.76		
New Castle|||	Beaver.....	.02	T			.03						.07	.08	T			.02	.05	.26	.59	.42	.03	T	T			.01	.10	.04	.02	.01	.01	1.90		
Newell.....	Monongahela.....					.07						.05	.20					.07	.20								.16		.04		.16	.15	.20		2.01
Parkers Landing|||	Allegheny.....	T					T					T	.05					T	.70	.67	.57							T	.02	T	T	T	T	2.01	
Pennline|||	Beaver.....	.03																.04	.85	.34	.07								.03	.09	.12		.17	1.74	
Pittsburgh***	Ohio.....					.01						.21						.02	.14	.41	.06	.02					.08	.02	T	.02	T	.10		1.09	
Ridgway.....	Allegheny.....	T				T	T					T							1.30		.02							.05	T	.27	.05	.05		1.74	
Saegertown.....	Allegheny.....																																		1.53
Saltsburg|||	Conemaugh.....					.05						T	.29					.03	.27	.17	.09							.18	.10	.05	.14	.15	.01	1.83	
Sharon|||	Beaver.....	T										T						T	.45	.64	.60								.06		.08		T	1.83	
Somerset.....	Youghiogheny.....						.08					.20						.18	.19	.08	.23						.10					.18	.22	1.46	
Springdale|||	Allegheny.....					.06						.03	.43					.02	.17	.18	.12						.04	T	.02	.10	.09	.10	.07	1.43	
Tionesta.....	Allegheny.....																																		2.60
Uniontown.....	Monongahela.....	.06				.15						.35	.17				T	.12	.06	.12	.56						.28	.02	T	.06	.08	.50	.07	2.60	
Unity Reservoir|||	Youghiogheny.....					.08						.26						.27	.22	.32	.27						.08		.22	.18	.20	.25		2.35	
Vandergrift.....	Conemaugh.....											.45						.01	.19	.26	.28								.15	.01	.07		.19		1.61
Warren.....	Allegheny.....					.05													.35	.40	.12	.05								.05	.40	.12		1.54	
Washington|||	Ohio.....					.07						.22						.03	.24	.21	.58	T					.24	.01	.01	.03	T	.11		1.75	
Westford|||	Beaver.....																T	T	1.08	.96	T											.25		2.29	
West Newton|||	Youghiogheny.....					.08							.25						.33	.58	.40							.10	.07	.61	.03	.14	.22	2.81	
Zellenople|||	Ohio.....	.01				.04						.07	.13					.02	.12	.03	.45						.05	.04	.08	T	.01	.03		1.08	
Lake Drainage.																																			
Erie***	Lake Erie.....					.01						T						.05	.34	T	.15							T			.10	T	T		0.65
West Bingham.....	Genesee.....																																		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of Unity Reservoir, Greensburg.
‡ Mdt. to mdt.

Daily Temperatures for May, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum...	71	71	77	90	89	67	66	67	62	80	75	62	62	70	70	72	73	73	64	69	78	71	70	62	68	71	67	73	69	68	78	71.0	
	Minimum....	41	42	44	46	47	45	40	43	39	44	45	41	37	40	45	47	56	57	56	56	58	56	42	40	47	49	52	51	46	48	50	46.8	
Altoona.....	Maximum...	63	69	80	87	84	64	62	65	76	83	77	59	62	68	77	70	75	78	79	78	79	81	75	64	62	64	67	66	62	63	68	71.2	
	Minimum....	39	41	42	49	49	35	33	33	34	44	59	35	33	38	46	51	56	58	58	53	53	46	34	36	42	40	43	45	48	43	43.5		
Beaver Dam.....	Maximum...	68	71	82	88	87	60	64	69	76	87	85	69	61	68	78	77	72	77	81	74	80	80	77	68	67	66	65	67	68	65	71	73.3	
	Minimum....	42	40	40	45	50	36	36	34	35	38	50	35	31	32	36	50	53	61	59	54	52	50	47	37	43	40	44	42	42	53	43	43.5	
Bradford.....	Maximum...	60	70	79	91	91	60	58	74	79	86	82	72	65	70	81	75	75	79	78	79	82	83	77	63	67	66	66	65	67	68	68	73.4	
	Minimum....	38	30	32	32	46	32	22	28	32	53	36	23	29	28	36	51	58	58	54	50	48	42	27	32	32	35	36	49	45	36	38.1		
Brookville.....	Maximum...	63	70	81	88	80	61	61	72	78	86	64	57	...	70	78	72	74	78	82	74	76	78	77	80	82	66	63	69	65	67	69	71.7 ^a	
	Minimum....	30	29	30	37	30	29	27	24	27	31	33	24	...	21	28	34	49	56	55	53	46	41	29	26	29	31	35	36	38	39	36	34.4 ^a	
Butler.....	Maximum...	55	68	81	88	86	61	61	68	74	87	84	67	53	67	76	76	69	74	76	78	78	79	79	79	79	79	79	77	59	66	68	72.0	
	Minimum....	44	38	37	44	50	36	37	30	31	26	35	35	37	27	32	45	54	62	61	57	52	50	52	58	38	37	39	40	43	40	41	42.5	
Carlisle.....	Maximum...	74	76	86	92	90	75	66	69	71	83	79	65	67	72	79	79	74	78	82	74	85	80	76	70	64	71	70	72	70	65	74	75.1	
	Minimum....	46	44	45	43	50	46	40	34	41	35	55	43	37	34	35	45	54	56	62	62	60	58	58	42	38	49	50	55	48	48	49	47.2	
Catawissa.....	Maximum...	72	74	77	92	92	67	65	72	76	84	72	66	63	72	79	79	79	79	82	73	80	84	80	74	64	71	71	73	72	68	68	74.5	
	Minimum....	42	37	36	41	50	40	35	31	35	35	44	40	31	30	33	39	37	57	59	58	55	60	48	36	35	48	44	45	46	43	44	42.4	
Chambersburg.....	Maximum...	70	72	79	86	87	71	61	63	66	80	77	62	64	69	76	72	71	80	80	78	79	78	73	70	62	68	65	70	66	65	72	72.0	
	Minimum....	43	41	40	44	50	46	41	36	41	35	51	42	33	31	37	45	54	57	60	60	55	56	55	41	39	47	49	43	45	46	49	45.5	
Claysville.....	Maximum...	70	76	87	93	89	63	63	69	82	89	87	67	65	74	81	79	74	80	84	76	84	84	80	67	66	69	69	70	72	69	73	75.8	
	Minimum....	45	38	41	42	49	32	36	35	31	37	58	33	27	31	35	50	58	59	62	62	47	47	43	34	45	35	44	45	40	51	40	43.0	
Clearfield.....	Maximum...	67	74	83	90	85	67	65	72	82	87	83	61	65	75	79	...	...	53	58	65	61	51	48	32	33	37	39	43	41	49	43	40.7 ^b
	Minimum....	36	35	35	42	48	33	32	27	29	36	54	36	26	27	40	...	...	77	73	69	73	79	73	71	64	66	69	68	74	67	72	71.7
Coatesville.....	Maximum...	73	71	75	89	88	73	65	62	58	77	78	68	63	68	74	77	53	58	65	61	51	48	32	33	37	39	43	41	49	43	40.7 ^b
	Minimum....	52	43	41	45	60	48	44	31	41	41	56	48	28	30	32	44	54	57	60	56	60	57	56	46	40	45	49	49	50	44	50	47.0	
Corry.....	Maximum...	58	65	78	86	82	54	58	70	73	83	74	60	57	67	73	67	72	75	76	73	78	77	68	60	63	59	65	59	60	65	66	68.4	
	Minimum....	41	33	39	49	44	35	30	27	32	34	53	35	23	28	34	39	54	58	56	56	47	44	44	32	31	36	38	40	41	45	41	40.0	
Emporium.....	Maximum...	63	69	77	87	83	60	56	69	76	82	70	58	59	69	68	73	72	74	65	72	70	58	57	59	57	60	56	63	62	65	69	69.7	
	Minimum....	35	32	33	40	47	32	31	25	28	35	58	40	25	25	30	38	52	60	58	58	52	52	40	30	33	35	42	42	45	48	39	40.0	
Erie.....	Maximum...	55	63	79	82	74	52	48	59	65	82	64	49	49	42	39	36	39	48	58	59	62	55	56	55	49	42	42	47	48	49	45	47.8	
	Minimum....	47	40	51	67	43	39	36	41	44	49	42	39	36	39	48	58	58	59	62	55	56	55	49	42	42	47	48	49	45	50	46	47.8	
Franklin.....	Maximum...	59	69	81	87	76	59	64	75	75	85	70	54	60	77	69	70	77	78	74	77	76	61	62	65	62	68	61	64	65	69	69.7		
	Minimum....	43	36	37	43	49	33	34	28	32	38	34	26	28	33	40	43	55	57	53	50	42	42	32	35	37	38	39	40	43	39	39.2		
Freeland.....	Maximum...	66	63	74	84	83	72	54	62	67	78	72	54	54	62	74	73	75	74	73	75	73	68	56	66	66	66	66	66	66	66	69	68.1	
	Minimum....	43	40	42	50	59	36	32	33	36	44	52	35	30	35	40	48	50	51	56	52	55	56	49	34	36	44	45	48	44	45	41	43.9	
Gettysburg.....	Maximum...	73	73	79	89	91	73	63	65	61	79	81	64	65	41	79	74	73	82	81	74	82	76	73	69	64	71	68	74	69	67	74	73.5	
	Minimum....	51	46	49	48	54	50	43	39	46	54	44	39	37	39	54	56	58	61	61	58	63	60	45	44	48	50	46	48	47	52	49	49.2	
Greensburg.....	Maximum...	66	71	82	87	80	63	62	70	76	84	82	62	68	70	75	71	72	77	81	75	77	82	75	63	64	65	71	68	67	66	69	72.3	
	Minimum....	45	40	42	50	50	35	37	33	36	42	56	33	30	35	40	50	59	60	61	60	54	67	47	35	42	39	44	45	44	51	44	45.4	
Grove City.....	Maximum...	63	68	81	82	83	64	61	69	73	85	81	62	73	68	76	74	73	76	77	76	78	76	61	67	62	66	66	69	71	67	71	71.7	
	Minimum....	44	39	39	49	47	34	33	34	35	35	45	37	31	27	37	37	42	38	40	59	50	52	43	32	29	36	35	40	49	41	40.3		
Hamburg.....	Maximum...	70	78	76	89	87	85	64	69	64	78	75	63	69	68	75	75	75	74	74	70	80	73	74	70	66	68	71	71	71	70	73	73.1	
	Minimum....	40	38	40	43	53	43	42	40	46	33	49	45	30	32	33	47	52	53	58	56	64	58	60	60	35	45	47	45	47	44	44	45.9	
Harrisburg.....	Maximum...	70	74	74	89	88	62	62	66	62	79	75	63	62	68	77	76	72	78	75	71	82	71	69	63	62	69	67	68	68	62	73	70.9	
	Minimum....	53	48	47	51	53	48	43	44	47	44	55	46	41	46	54	56	58	61	58	62	61	54	48	44	51	52	50	53	52	54	50.9		
Hawley.....	Maximum...	67	65	73	89	89	83	64	65	70	81	79	59	59	66	76	76	75	66	63	64	78	74	69	60	66	67	70	72	65	65	69	70.5	
	Minimum....	41	35	32	40	46	41	34	29	34	31	54	39	30	29	32	42	50	57	54	55	57	52	36	32	41	40	48	47	40	37	41.5		
Huntingdon.....	Maximum...	68	74	82	91	88	69	68	67	78	86	79	62	66	78	80	72	76	82	84	81	84	79	76	72	67	69	69	70	68	69	74	75.1	
	Minimum....	38	39	37	43	45	40	37	29	30	36	56	39	30	27	33	42	52	56	60	60	54	55	48	33	35	45	37	45	49	50	44	42.8	
Johnstown.....	Maximum...	67	72	87	91	84	65	69	74	80	87	73	59	65	74	79	72	74	81	85	77	82	85	74	74	65	65	68	70	64	67	71	74	



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. JUNE, 1928. No. 6

GENERAL SUMMARY.

The temperatures were almost constantly below the normal throughout the month, while the rainfall was the heaviest for any June during the last forty years. Damage by winds, heavy rains, and hail was reported from Juniata, Perry, Cumberland, and York counties. A severe wind storm, near Newville and Bloer-ville on the 25th, damaged or destroyed many buildings, uprooted many trees, and beat down a considerable amount of grain and corn. Most crops were backward at the end of May, the temperatures having been too low for a normal growth. Corn, tobacco and the truck crops were most affected by the temperature deficiency, while wheat, rye, and most grasses made a fair growth and were only slightly below the normal. Continued low temperatures in June were therefore unfavorable, although an increased amount of sunshine during the third week started a little better growth of all crops. The first cutting of alfalfa was made early in the month, the yields being good, but there was some losses in curing. Haying continued during the third week under more favorable conditions, and with almost no losses. Pastures were good throughout the month. Frequent rains after the third week delayed field work very much. Haying was impossible, and cultivation made but little progress. The heads of wheat and rye were filling rapidly near the end of the month, and seemed to be normally advanced. Potatoes were good to excellent, the vines being heavy and undamaged by beetles or the blight. Tobacco and truck crops improved considerably during the last week when the temperatures more nearly approached the normal, and were generally fair to good excepting the weedy condition of many fields. Orchard fruits were in all conditions, from very poor to good, while the berry crop was unusually good.

TEMPERATURE.

The mean temperature for the State, as determined from observations at 85 stations, was 65.5°, which is 2.7° below the normal for the month. The highest mean was 70.6°, at Philadelphia-Point Breeze, and the lowest was 58.8°, at Mount Pocono. During the month the temperature ranged from a maximum of 93° at Phoenixville on the 14th to a minimum of 30° at Wellsboro on the 12th. The greatest daily range of temperature was 52° at Wellsboro on the 12th.

PRECIPITATION.

The average precipitation for the State, as shown by reports from 139 stations, was 7.96 inches, or 3.86 inches in excess of the June normal. The greatest monthly total was 13.14 inches, at West Chester, and the least was 3.96 inches, at Erie. The greatest amount recorded in any 24 consecutive hours was 4.80 inches, at West Chester on the 6th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	Direction
Erie.....	320.3	455.1	70	76	70	72	7.357	10.2	36	sw.
Harrisburg.....	187.0	448.9	42	80	61	70	4.009	5.6	26	w.
Philadelphia.....	267.1	448.9	60	80	66	73	5.900	8.2	30	nw.
Pittsburgh.....	257.5	452.0	57	78	61	67	6.454	9.0	36	nw.
Reading.....	208.8	448.9	46	76	58	72	4.109	5.7	20	w.
Scranton.....	241.8	452.0	53	76	59	71	4.029	5.6	24	nw.

* For any five-minute period.

† By 8-cup anemometer.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	0.1 inch or more prec.
1888.....	68.4	100	30	3.04	6.90	1.08	.....	.....	.....	9
1889.....	66.7	95	33	5.43	10.04	2.71	.....	.....	.....	15
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7	9
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8	11
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10	13
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5	10
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7	9
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9	11
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8	11
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5	9
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6	9
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7	10
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7	10
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7	13
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13	15
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8	13
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9	13
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7	13
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10	12
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2	7
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9	13
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10	11
1911.....	68.3	99	38	4.71	10.11	2.13	12	10	8	12
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4	7
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6	9
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8	11
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9	15
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7	14
1918.....	66.0	98	29	3.42	2.65	0.44	13	11	6	10
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5	10
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7	13
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4	8
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8	13
1923.....	70.9	103	32	2.73	7.99	0.41	16	9	5	9
1924.....	65.8	98	26	5.57	9.75	2.23	11	11	8	15
1925.....	71.9	104	29	3.04	7.02	0.62	16	11	3	9
1926.....	64.1	94	23	3.63	6.56	1.20	13	10	7	12
1927.....	63.8	99	25	3.72	6.78	1.59	15	8	7	9
1928.....	65.5	93	30	7.96	13.14	3.96	9	9	12	17

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	5.1	10.4	30	3.3	18	18
Phillipsburg.....	Delaware.....	5.0	13.0	30	3.0	4	22
Mauch Chunk.....	Lehigh.....	0.1	7.6	30	2.1	1	12
Wilkes-Barre.....	Susquehanna.....	8.5	17.1	7	4.8	4	20
Williamsport.....	Susquehanna.....	6.4	17.9	5	2.1	4	20
Harrisburg.....	Susquehanna.....	6.5	11.4	7	4.4	4	17
Greensboro.....	Allegheny.....	14.8	22.5	21	11.2	18	22
West Newton.....	Youghiogheny.....	2.7	4.7	25	1.1	1	20
Lock No. 4.....	Monongahela.....	16.9	22.6	21	13.7	18	31
Pittsburgh.....	Ohio.....	14.6	18.9	7	10.7	4	25
Beaver Dam.....	Ohio.....	13.3	19.9	7	8.2	1	30

Climatological Data for June, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown	Lehigh	254	16	66.2		90	14	46	15	30	5.49	+2.05	1.20	0	15	11	10	9	sw.	John A. Frick.
Altoona	Blair	1,615	41	63.6	-2.6	82	13	40	11	33	8.82	+4.90	1.18	0	19	11	13	6	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	67.4		86	19†	47	1†	33	11.04		2.80	0	18	14	5	11	n.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	67.8	-2.0	88	14	48	11	26	5.74	+1.57	1.08	0	17	16	6	8	w.	Lehigh University.
Carlisle	Cumberland	467	61	69.2	-1.7	88	14	44	16	35	8.32	+4.48	1.36	0	17	11	9	10	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	66.0	-1.7	92	14	39	16	40	7.29	+3.40	1.60	0	19	14	7	9		H. H. Yetter.
Center Hall	Center	1,272	32	62.8	-3.3	87	14	40	4†	42	5.26	+1.26	1.16	0	17	12	4	14		S. W. Smith.
Chambersburg	Franklin	580	28	66.8	-2.6	85	14	43	1	35	9.82	+5.81	1.86	0	18	5	11	14	s.	William B. Spear.
Clearfield	Clearfield	1,120	18	65.2	-2.1	87	13	36	11	42	10.58	+5.52	1.67	0	23	10	9	11	w.	E. W. Hess.
Coatesville	Chester	380	40	67.8	-2.1	89	14	41	1	38	10.57	+6.53	2.65	0	14	4	18	8	s.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	65.4	-3.7	88	14	43	11	32	6.89	+2.89	1.26	0	20	10	5	15	sw.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	62.6	-3.6	85	13	36	16	42	8.39	+3.86	1.81	0	19	10	8	12	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	67.4	-0.6	89	14	46	1†	32	9.43	+5.21	1.75	0	17	11	4	15	sw.	Ira J. Keath.
Freeland	Luzerne	1,970	13	62.4		87	14	41	16	31	10.34		2.25	0	19	5	11	14	sw.	Theo. Reichmann.
George School	Bucks	190	21	67.8	+0.1	90	14	48	11†	31	5.37	+2.14	1.32	0	17	9	9	12	s.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	68.4	-1.2	87	14	49	16	30	9.74	+5.84	2.10	0	16	7	10	13	sw.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	63.8	-1.4	85	14	36	11	41	9.24	+4.84	2.12	0	19	5	16	9	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	60.2		83	14	35	11	35	10.10	+5.37	3.90	0	12	15	4	11	sw.	Gustav Holtz.
Hamburg	Berks	535	35	65.2	-4.3	89	14	42	9	37	8.53	+4.81	1.46	0	16	10	11	9	w.	State Sanatorium.
Hanover	York	600	24	69.1	-1.5	89	14	48	16	34	9.05	+5.32	2.14	0	16	11	10	9	w.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	67.2	-3.1	86	14	51	11	25	8.16	+4.61	2.75	0	16	4	9	17	s.	U. S. Weather Bureau.
Hawley	Wayne	900	9	63.4		89	14	36	11	42	8.22		2.19	0	18	13	10	7	nw.	J. S. Pennell.
Holtwood	Lancaster	200	13	68.6		88	14	54	16	22	6.38	+3.25	1.64	0	16	10	11	9		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	65.8	-2.4	86	13†	39	11	41	6.37	+1.89	1.39	0	20	6	9	15	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	17	66.8	-0.6	87	13	41	1	35	5.40	+0.08	0.99	0	17	7	11	12		John S. Madore.
Lancaster	Lancaster	255	40	66.0	-4.1	92	14	43	1†	37	8.41	+4.42	2.58	0	14	16	10	4	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	63.6	-1.6	84	14	35	11	41	6.02	+2.13	0.83	0	16	10	9	11	sw.	C. P. Darling.
Lebanon	Lebanon	469	87	67.0	-2.3	90	14	44	16	32	7.10	+3.04	1.29	0	18	15	9	6	sw.	S. B. Benzing.
Lewisburg	Union	450	53	67.1	-0.1	88	14	42	11†	39	7.98	+3.82	1.43	0	18	11	9	10	sw.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	67.2	-2.2	88	25	39	11	41	8.03	+3.63	1.56	0	21	9	10	11	w.	Joseph Beaver.
Lykens	Dauphin	680	13	66.4	-1.8	88	14	38	11	39	9.80	+5.22	1.75	0	20	16	9	5	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	64.4	-3.4	89	14	38	11	42	11.81	+7.51	3.91	0	14	16	3	11	s.	R. K. Wintermute.
Millintown	Juniata	445	24	66.1	-1.7	84	14†	41	16	38	8.78	+4.42	1.74	0	19	7	11	12	w.	Wellington Smith.
Montrose	Susquehanna	1,720	25	59.8	-2.9	81	14	36	1	38	9.90	+6.08	1.70	0	19	7	10	13	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	58.8	-2.8	77	14	33	11	32	11.16	+6.37	3.06	0	16	10	9	11	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	62.4	-3.3	85	13†	35	11	40	7.87	+2.77	1.39	0	13	16	6	8	w.	A. H. Boatman.
Narberth	Montgomery	300	9	68.2		91	14	48	11	28	7.84		1.66	0	16	10	10	14	sw.	Charles Decker.
Neshaminy Falls††	Bucks	60	39	66.9	-2.3	89	14	46	11	31	6.66		1.05	0	17	14	4	12	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	65.0		89	14	41	1†	36	7.49		2.08	0	17	13	10	7	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	69.8	-1.6	88	14	57	23	23	6.77	+3.53	1.53	0	18	5	14	11	sw.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	113	4	69.9		89	14	57	17†	25	6.44		1.13	0	16	11	12	7		Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	69.7	-2.1	91	14	54	11	25	5.95	+2.31	1.49	0	18	18	4	8	sw.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	70.6		91	14	57	1†	25	5.59		1.55	0	19	12	4	14	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	17	69.9	-1.6	93	14	42	17	38	4.75	+1.09	0.97	0	12	15	11	4	s.	North Springfield Water Co.
Quakertown	Bucks	496	43	66.8	-1.4	90	14	42	11	33	5.63	+1.97	1.07	0	16	14	9	7	nw.	John E. Benner.
Reading	Berks	325	58	67.8	-2.0	89	14	50	16	25	6.18	+2.51	1.59	0	16	6	8	16	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	39	65.0	-2.8	87	14	42	11	35	6.76	+3.19	1.52	0	16	4	10	16	s.	U. S. Weather Bureau.
Sellingsgrove	Snyder	455	38	65.2	-3.8	85	14	41	11	36	7.77	+3.52	1.58	0	18	9	9	12	s.	Dr. George E. Fisher.
Shawmont††	Philadelphia	51	32	69.9		88	14†	50	1†	32	7.84	+4.37	1.57	0	17	11	10	9	w.	W. S. Guiles.
State College	Center	1,217	43	63.9	-2.6	82	14†	40	11	32	7.18	+2.81	1.16	0	18	9	10	11	w.	C. A. Kern.
Stroudsburg	Monroe	500	12	63.8	-2.5	87	14	37	11	37	10.10	+5.91	1.29	0	15	12	10	8	nw.	State Normal School.
Towanda	Bradford	754	33	63.0	-2.3	84	14	38	11	35	8.46	+4.87	1.20	0	17	9	11	10	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	60.8	-3.7	82	12†	30	12	52	6.69	+2.64	2.52	0	15	13	4	13	nw.	George W. Hill.
West Chester	Chester	455	90	67.7	-1.7	89	14	49	1	29	13.14	+8.95	4.80	0	13	7	17	6	sw.	Joseph W. Belt.
Williamsport	Lycoming	521	41	65.6	-2.9	86	14	41	11†	36	8.60	+4.70	1.67	0	19	9	6	15	se.	Miss Veronica E. April.
York	York	400	40	68.2	-1.7	90	14	42	16	37	8.34	+4.86	1.74	0	18	8	13	9	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver	700	35	66.0	-4.3	87	13	42	3†	36	9.64	+4.99	1.99	0	13	3	7	20	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	63.5		89	13	31	11	48	6.25		1.11	0	16	14	0	16	s.	Bradford Electric Co.
Brookville	Jefferson	1,173	37	61.6	-1.9	88	13	31	11	48	9.81	+5.56	2.00	0	14	13	9	8		John Fawcett.
Butler	Butler	1,152	3	63.2		86	13	37	8	40	5.93		1.95	0	10	14	1	15	w.	William C. Faust.
Claysville	Washington	1,150	24	67.8	-0.4	91	13	39	3	39	7.42	+3.27	1.26	0	19	10	7	13	n.	J. L. Melvin.
Corry	Erie	1,430	16	62.2	-3.2	87	13	36	11†	39	9.07	+3.44	1.90	0	18	9	7	14	e.	Nevin R. Dickson.
Derry	Westmoreland	1,172	31	66.1	-2.5	88	13	41	3	33	7.82	+2.97	1.15							

Daily Precipitation for June, 1928

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh		.12		.02	.61	1.20	T.		.10					.38				.34		.40	.20	.28	.05	.32	.39		.40	.68		5.49		
Altoona.....	Juniata		.31		1.18	.29	.38	.06	.02	1.01				.05	.21			.37	.96		.98	.14	.09	.89	.54	.03	.20		1.15	.17		8.82	
Ansonia|||	W. Br. Susq.		.08		T.	1.75	1.73	.26	.14	.24	.20				.09				.17	.03	.12	.34		.16	.42	.11	.06		.69	.22		6.93	
Arendtsville|||	Lower Susq.		.02		.11	1.15	.91			.23	.04	T.							.50	1.00	.10	.50	.02	.89	2.80	.18	.14		1.50	.36		11.04	
Baker's Summit	Juniata				.15	.09	.06	.15		.24				.19	.22				.25	2.03	.40		.25	.01	.10	.40		.08		.89	.13	7.00	
Bethlehem	Lehigh		.08		.37	.38	.97	T.		.14	.58				.24				.01	1.07		.17	.44		.30	.03	.20	.08		.66	.02	5.74	
Bloersville||	Lower Susq.		.05		1.12	.58			.36				.05					.80	T.	1.20	.68	.22	.40	2.10	1.10				1.51	.06		10.23	
Carlisle	Lower Susq.		.05		.80	.24	.52	T.		.22				.33				.13	.84		.82	.95	.18	.05	.79	.18	.85		1.36	.01		8.32	
Catawissa||	N. Br. Susq.	.01	.01		.90	.56	.30	.02	.04	.70				.22				.45	.15		.16	.04	.16	.32	.48	.70			1.60	.03		7.29	
Center Hall	Susquehanna				.95	.18	.22	.04	.02	.75								.78		.11	1.16	.08	.10	.01	.11	.04	.11		.36	.24		5.26	
Chambersburg	Potomac		.12		1.29	.09	.41	T.		.21	.05			.14				.36	1.50		.75	.92	.02	.17	.28	.02	.79		1.69	.01		9.82	
Clearfield	W. Br. Susq.		.18		.12	1.67	1.58	.05	.06	.30	.50			.15	.11		T.	.78	.70	.30	1.00	.20	.21	.32	.64	.02	.12	1.18	.21	.18		10.58	
Coatesville	Lower Del.		.12		.42	.88	2.65			.91	.03			1.12				1.29		.25	1.60		.57	.14	.03				.56			10.57	
Colebrook	Lower Susq.		.07	T.	.37	.36	.73		.05	.49	.01			.43				.47	.02	.02	.35	.71	.22	.15	.75	.21			1.26	.01		6.89	
Conshohocken	Schuylkill		.06		.89	.97	.39			.98			.06	.38				.16	1.17		.07	.92	.07	.08	.21				.58			6.99	
Cresson|||	Juniata	.08			.70	.32			.20	.70				.40			1.80				.30	.20		.80	.20				.70	.30		6.70	
Doylstown	Lower Del.				.22	.30	1.48			.25	.08		.03	.97				.11		.20	.39	.02	.47		.03				.57	.10		5.22	
Driftwood|||	W. Br. Susq.				.10	1.41	1.45	.05	.08	.24	.24				.24				.25	.26	.15	.25		.30	.53	.36	.10		.67	.16		6.84	
Emporium	do	.11			1.80	1.81	.55	.06	.12	.51				.38				.49	.04	.06	.21	.14	.24	.16	.38	.09			.69	.15		8.39	
Ephrata	Lower Susq.		.10		.34	.64	.89	T.		1.09	.04			.38	T.				.91	.01	.67	.85	T.	.19	.98	1.75	.08		.80	.11		9.43	
Forest City	N. Br. Susq.		.28		.21	.71	.96	.12		.38	.27				.24			1.60			.22	.48			.39	.60	.46		1.10	1.60		9.62	
Freeland|||	Lehigh		.08		.01	1.06	1.02	.18	.02	.20	.71			.35				.31	.23		.70	.03	.41	.70	.54	.76			.78	2.25		10.34	
George School	Lower Del.		.04		.15	.49	1.32	T.		.10	.33		.03	.06	.53		T.	.24		.09	.72	.01	.34		.06				.57	.29		5.37	
Gettysburg	Potomac		.01		.74	.49	1.32	T.		.43	.05			.14			T.	.75		.38	1.40	.02	.26	2.10	.17	.01	T.		1.47			9.74	
Girardville||	Lower Susq.	.05	.07		.72	.52	1.38	T.		.12	.94			.29				.15	.02	.05	.50	.21	.12	.27	1.33	.07	.47		1.72	.87		9.82	
Gordon	Lower Susq.	.27			.38	.70	1.01	.05	1.10					.28				.02	.09	.05	.45	.30	.04	.10	.68	.84	.66		2.12	.10		9.24	
Gouldsboro||	Lehigh					.35	.85	.45		.68				.40				.60	.40		.40				.21	1.10	.76			3.90		10.10	
Graterford	Schuylkill				.18	.29	1.42			.18	.21			.70				.43		.16	.43	.08	1.86	.12	.10				.48	.09		6.23	
Great Bend	Lower Br. Susq.		.14			1.32	1.95		.18		.55			.34				.61	.80		.71		.12	.08	.20	.47			.37	1.21		9.05	
Hamburg	Schuylkill		.07		.71	.22	1.46			.82				.42			.02	.19		.51	.66	.09	.80	1.00		.20			1.26	.10		8.53	
Hanover	Lower Susq.		.01		.58	.50	1.05	T.		.87	.13			.20	T.		T.	1.55		.27	2.14	.01	.10	.44	.55	.14			.51			9.05	
Harrisburg***	do	T.	.03	T.	.67	.19	.61		.12	.02			T.	.07				.11	.06	T.	.94	.30	.05	1.02	1.82	T.	.08		2.07	T.		8.16	
Harrisburg East	do		.05		.07	.76	.83			.20	.02			.12				.32		.36	.92	.04	.10	.94	1.79	.14			1.67			8.33	
Harrisburg North	do	.08		.09	.66	.10	.79			.25	.01			.10				.47	.05	.08	1.24	.01	.13	.88	.79	.12			1.15	.62		7.62	
Hawley|||	Upper Del.		.17		1.04	.70	.08	.03	.10	.20				.36				.39	.56		.68	.02	.16	.35	.76	.43			.12	2.07		8.22	
Hollisterville	Upper Del.		.25			1.37	.86	.22	T.	.11	.02			.27				.68	.31		.66		.34	.31	.76	.33			.11	2.43		9.03	
Holtwood||	Lower Susq.	.05		T.		.19	1.43	T.		.04	.53		T.		.21			.13	.46	T.	1.64	.02	.17	.10	.70				.62	.02		6.38	
Huntingdon	Juniata		.19		1.06	.37	.15	.02	.05	.46	.02			.02				.81	.18		.64	.15	.01	.19	.34	.06	.26		1.32	.07		6.37	
Hyndman	Potomac	.12			.99	.03	.21	T.	T.	.51			T.	.01	.01			.81	.25		.30	.15	.83	.34	.15	T.	.05	T.	.59	.05		5.40	
Lakeville	Upper Del.	T.	.19			1.58	.94	.11		.10	.20			.36				.51	.42		.76	T.	.20	.43	.65	.40			.39	2.76		10.00	
Lancaster	Lower Susq.	.05			.23	2.35				.50				.28				.46	.14		.20	1.27		.15	.75	1.26	.06			.71		8.41	
Lansford|||	Lehigh		.17		.01	1.17	1.11		.06	.31	.75			.29				.20	.02		.62	.07	*	.91	1.23	.19			.77	3.18		11.06	
Lawrenceville	N. Br. Susq.		T.		.78	.83	.60	.10		.58				.15			T.	.05		.55	.40		.20	.30	.20	.10	.05	.35	.78			6.02	
Lebanon	Lower Susq.	.11		.02	.40	.88	T.		.20	.03			T.	.26			.30	.01	T.	.93	.02	.29	.35	.70	.11		1.29	1.17	.03			7.10	
Lewisburg	W. Br. Susq.		.17		.96	.57	.57	.01		.61				.18	.27	.09	.50	.17	.13	.12	.66	.12	1.01						1.43	.41		7.98	
Lloyd	do				.62	.88	.81	.24		.78				.16				.10	.36	.24	.32		.21						1.12	.16		6.00	
Lock Haven	do		.18		1.06	1.56	.49	.16	.06	.46	.24			.02				.24	1.19	.01	.38	.13	.02	.16	.04	.32	.09		.85	.37		8.03	
Lykens	Susquehanna		.15		.39	.38	1.47	.03		.73				.33	.01			.05	.13	.09	.40	.51	.05	.06	.51	1.11	.51		1.75	.14		9.80	
Mauch Chunk	Lehigh		.07		.69	1.13	1.03		1.52					.29				.02	.13		.40	.31	.04		1.75	.30	.22		3.91			11.81	
Mifflintown	Juniata		.30		.81	.34	.63	.01		.42	.01							.65	.35	.01	1.05	.47	.01	1.04	.54	.10	.25		1.74	.05		8.78	
Montrose	N. Br. Susq.	.30			.35	1.10	1.00	.15	1.00					.35				.13	1.37	.03	.54	.50		.18	.08	.20	.42	.20	1.25	.75		9.90	
Morris Run	N. Br. Susq.	.03			.97	1.06	.72	.06		.64				.11				.10	.31	.08	.61		.10	.06	2.44	.10	.15		1.46	.53		9.53	
Mount Pocono	Upper Del.				.22	1.30	.30	.06	.03	.66				.20	.01			.27	.32	.27	.20	.53	.63	T.		.70	.06			3.00		11.16	
Muncy Valley	W. Br. Susq.	.27			1.39	.76	1.19	.07		1.01					.38				.38		.56			.06	.49	.37	.53			.79		7.87	
Narberth	Lower Del.	*			* 1.04	.75				.84	.22		.07	.54	.14		T.	1.66		.08	1.10	T.	.23		.07		T.		.63	.47		7.84	
Neshaminy|||	Lower Del.	.02				.50	.95	.20	T.	.12	.92		.10		.70				.10	.95		.40	.42	.25	.25	.02			.01	.75		6.66	
New Park	Lower Susq.	.03			.20	.64	1.54			.75				.20				.23	.64	1.00		.35	.38	.91	.21				.86			7.94	
Palmerton||	Lehigh	.02	T.		.53	.96	.33	T.	.05	.61				.46				.31	.02		.35	.34	.02	1.42	.08	.07	.02		1.18			7.49	
Paupack	Upper Del.	.17			1.46	.79	.25		.02	.10	.28			.28				.57	.52		.59		.18	.32	.79	.46			.06	2.25		9.09	
Philadelphia***	Lower Del.</																																

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Daily Precipitation for June, 1928—Continued from page 28

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam	Ohio	.02		.25	1.40	1.65	.05		.43	.79					.17				.10	1.52	.01	.12	1.87		.04	.02	.04		.39	.77		9.64	
Beaver Falls	Beaver	.07		.25	1.14	1.38	.04	.02	.47	.71				.03	.15				.24	.96	T.	T.	1.72		.02	.01	.05	T.		.45	.50		8.22
Bradford	Allegheny	.10		.74	.73	.99	.34		1.09	.02				.42					.38	*		.27		.16	.12		.11		.47	.31		6.25	
Brookville	do.		T.	2.00	1.75	.49	T.	.50	.50					.30	.60				1.25			.75	.15	.75				.25	.40	.12		9.81	
Butler	Ohio	.30			1.95	.96	.05			.60									.55	.21			.50		T.		.34			.47		5.93	
Claysville	do.	.61		.98	.19	.66	.09	.14	.77					.32					.22	.58		.09	1.26	.12	.24	.09	.07	.02	.61	.36		7.42	
Cloeff	Allegheny	.18		1.73	1.30	.11		.32	.85				.12	.30					.97	.15		.87		.40	.22	T.			.66	.36		8.54	
Clymer	Conemaugh	.21		1.36	.62	.81	.03	T.	.62	.30			.28						.81	.27		.43	.48	.18	.33	T.	.04	.09	.63	.41		7.90	
Confluence	Youghiogheny	.42		.38	.70	.25	.37	.06	.37	.22			.08		.04				.05	1.02	1.07	.08	.46		.90	.05	.15		1.02	.27		7.96	
Coraopolis	Ohio	.13		.29	1.23	.90	.14	T.	.39	.42				.19					.04	1.14	T.	.39	2.45		.02	.02	.20	T.	.33	.33		8.61	
Corry	Allegheny	.02	.22		.82	.63	1.22	.32	.64					.08					.72	.05		1.31		.30	1.60	.10	.02	.29	.47	.26		9.07	
Coudersport	do.	.16		1.12	1.11	.52	.09	.28	.45				.21	.25					.41			.45		.13	.43	.11	.04		.52	.11		6.89	
Creekside	Allegheny	.13		*	4.15		.22	.45	1.03					.26						.80		.97			.66		.15		*	.82		9.64	
Derry	Conemaugh	.11		.94	T.	.21	.16	.28	.55				.23						.27	.68		1.15	.58	.98	.58	.25	T.	.11	.56	.18		7.82	
Donora	Monongahela	.47		.82	.02	.27	.01	.28	.38			.14		T.	.29				.42	.21	T.	T.	1.22	T.	*	.45	.28	.03	.49	.28		5.78	
Ebensburg	Conemaugh	.26		1.34	.09	.76	.15	T.	.87	.16				.11				.06	.58	1.20		.83		.15	.71	.85	.04		.15	.74	.60		9.66
Elk Lick	Youghiogheny	.40		1.25	.11	.85	.10		1.00			.12		.04					.10	.20	2.15	.10		.15	.71	.85	.04		.15	.74	.60		9.66
Falls Creek	Allegheny	.10		1.28	1.58	.77	.07		.66					.19					.80	.53		.66	.39		.47	.17	.05		.61	.58		8.91	
Franklin	Allegheny	.12		.08	1.04	.96	.14	.02	.38	.29				.11					.28	1.05	.02	.25	.08		.40		.06		.28	.23		5.79	
Freeport	do.	.16		.21	1.38	.97	.05		.50	.47				T.	.16					1.07		.10	.67		.17	.02		.02	.01	.70	.31		6.97
Greensboro	Monongahela	.62		.46	.34	.22	.14	.04	.32	.15		T.	T.		.08				.32	.88	.29	.23	.11		.41	.03	.08	.03	.48	.47		6.70	
Greensburg	Youghiogheny	T.	.32	.06	1.07	T.	.22	.06	.08	.67			.28						.37	.31	T.	.40	.83	.46	.74	.16	.08	.09		.69	.57		7.36
Greenville	Beaver	.14		.95	.53	1.17	.04	.14	.69	T.			.07						1.60	.03		.12		.10	.13	.07	.03		.47	.29		6.57	
Grove City	Beaver			.62	1.32	.80	.05	T.	1.08	T.			.13						1.82	.32	.01	.19		.02		.02	T.		.70	.48		7.56	
Herr's Isl. Dam	Ohio	.23		.25	1.22	1.25	T.	T.	.40	.61				T.	.21					.87	T.	.20	1.22		.09	.06	.12	.01		.67	.36		7.77
Ingram	Ohio	.29		1.54	1.41	.60	T.	.18	.89					T.	.31				1.18	.04	T.	1.12	1.00	.05	.10	.18	.03	T.	.76	.33		10.01	
Irwin	Youghiogheny	T.	.07	1.15	.01	.26	.08	.10	.55				.14						.49	.10		.13	1.20		.46	.01	.22	.02		.55	.29		5.83
Johnstown	Conemaugh	T.	.26	1.71	.05	.46	.01	.18	.64				.10						.47	.49	T.	.85	.23	.27	.28	.03	.07	.05	.20	.84	.42		7.76
Kregar	Youghiogheny	.40		.16	.75	.35	.17	.03	.23	.23			.30						.67	.44	.54	1.08		.53	.15	.11	.10		.46	.23	.28		7.21
Linesville	Beaver	.23		.21	.58	2.15	.12		.36	.48				.03					.15	.71	.01	.99	.03	T.	.41		.03	.08	.04	.06	.79		7.46
Lock No. 4	Monongahela	.41		.27	.59	.45	.02		.36	.19				.23					.09	.71		.05	1.57		.42	.07	.32	.06		.48	.34		6.63
Lycippus	Conemaugh	.37		1.20		.55	.20	.13	.33	.27				.35					.19	.91		.22	.71	.82	.46	.35	.45		T.	.94		8.45	
Mount Lebanon	Ohio	.23		1.20	.80	.60	.04	1.14	.24				.30						.30	.41	.04	.65	1.95	T.	.35	.18	.03	.06		.93	.33		9.78
New Castle	Beaver	.01	T.	.40	1.80	.75	.75	.02	.52	.24	.01	T.	T.	.10	.15	T.	T.		.26	1.33	.02	.25	.93	.02	.01	.01	.18	.01	.28	.50		8.55	
Newell	Monongahela	.34		.88		.26	.11	.04	.38	.15				.04					.18	.12		.26	1.30		.28	.14	.18	.06		.43	.47		5.62
Parkers Landing	Allegheny	T.		.10	1.80	1.30	.10		.52	.35				.15					.10	1.47		.20	.08		.05		.05		.40	.38		7.05	
Pennline	Beaver	.18	*	.10	.65	1.50	.34	.02		.53				.23					.60	1.00	.34	.12			.19		T.	T.		.91		6.71	
Pittsburgh	Ohio	.07	.17		1.41	.84	.21	T.	.39	.51				T.	.18				.80	.08	T.	1.72		.03	.07	.10	.01	.05	.10	.80	.19		7.73
Ridgway	Allegheny	.03		1.18	1.42	1.16	.08		.65					.35					.58	.07		.32	.45	.21	.15	.07				.33	.17		7.25
Saegertown	Allegheny																																
Saegertown	Allegheny																																
Saltsburg	Conemaugh	.32		.70	.79	1.33	.31	.25	.41	.51				.26					.26	1.52		.01	1.35		.44	.22	.04	.08		.62	.31		10.29
Sharon	Beaver	T.		.29	1.10	1.69	.12		.46	.09				.10					1.16	1.29			.96		.23		.31		.07	.42		8.29	
Somerset	Youghiogheny	.35		.96	.15	.22	.18	.06	.38	.10			.20	.10					.40	.95		.35	.32	.34	.32		.06	.05		.69	.28		6.35
Springdale	Allegheny	.24		.30	1.54	1.34	.02	.01	.37	.57	T.			.01	.26				.01	1.38		.23	1.90		.20	.03	.06	.05		.90	.53		9.95
Uniontown	Monongahela	.35		.68	.04	.29	.04	.04	.53	.08				T.	.05				.50	.67		.18	.32	.10	.44	.04	.45	.13		.37	.57		5.87
Unity Reservoir	Youghiogheny	.21		.94	.06	.22	.10	.10	.53	.04				.29					.43	.47		.10	.70	.24	.68	.12	.03	.10		.52	.61		6.49
Vandergrift	Conemaugh	.07	.12	2.05	1.01	.29	.04	.45	.60				.15	.19					1.19	.69	T.	.78	.01	.29	.12	.09	.01	.02	.06	.59	.23		8.91
Warren	Allegheny	.06		.90	.60	1.20	.41	.09	.75	.09				.15	.19				.30	.28		.15	.35	1.30	.40	.05	.10		.40	.24		8.01	
Washington	Ohio	.14	.25	T.	1.01	.40	.34	.10	.44	.49				.02	.32				.20	.22	.03	1.33		.06	.38	.13	.11	T.	.35	.46	.26		7.04
Westford	Beaver				.99	2.30	.12		.35	.72									.20	.90	.03				.20	.12			.20	.54		6.67	
West Newton	Youghiogheny	.56		.29	.31	.28	.04		.39	.01																							

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of Unity Reservoir, Greens

Daily Temperatures for June, 1928

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	80	82	74	69	62	82	72	78	70	70	70	77	81	90	74	75	79	72	84	75	63	65	63	81	86	85	79	83	83	78	76.1	
	Minimum	56	54	56	55	55	56	50	56	47	51	51	58	59	60	46	50	55	56	61	60	56	56	57	59	62	62	57	61	63	62	56.2	
Altoona.....	Maximum	76	74	68	65	75	70	64	72	73	65	68	75	82	80	73	73	79	72	79	77	73	76	71	80	79	74	70	76	78	75	73.7	
	Minimum	44	53	41	49	52	57	51	49	55	50	40	46	57	63	55	40	46	55	62	61	64	60	62	61	57	55	55	50	60	59	53.6	
Beaver Dam.....	Maximum	71	72	70	66	73	73	69	69	75	65	75	81	87	86	74	76	85	85	77	86	82	83	82	81	78	70	76	79	77	78	76.7	
	Minimum	45	57	42	49	56	59	52	42	51	47	43	51	58	63	53	46	49	63	66	62	68	62	63	61	61	56	59	52	64	60	55.3	
Bradford.....	Maximum	81	77	73	56	69	67	71	75	70	64	77	85	89	87	72	77	85	85	72	70	77	86	79	82	81	77	74	81	77	75	76.6	
	Minimum	34	53	40	45	48	57	50	40	54	44	31	40	53	59	47	38	37	56	62	60	60	59	58	60	59	54	53	43	60	58	50.4	
Brookville.....	Maximum	78	71	83	57	71	70	67	72	75	65	74	81	88	78	72	75	84	76	74	79	83	83	80	80	80	75	72	80	77	73	75.8	
	Minimum	33	38	35	47	56	52	43	43	50	35	31	39	52	46	39	34	39	56	62	59	60	56	56	62	53	51	43	41	60	51	47.4	
Butler.....	Maximum	63	69	66	60	63	74	67	73	71	73	80	81	86	72	71	73	73	67	70	78	78	79	79	75	78	78	78	74	74	72	73.4	
	Minimum	40	49	37	38	56	59	52	45	44	57	40	56	56	55	54	42	50	43	66	62	67	63	63	60	57	59	48	60	54	59	53.0	
Carlisle.....	Maximum	79	83	84	80	76	79	72	78	83	78	82	72	86	88	80	79	79	81	85	79	75	70	68	85	86	84	77	82	83	79	79.7	
	Minimum	50	62	62	52	60	60	58	62	60	57	58	46	64	63	58	44	47	54	64	63	63	57	61	62	65	62	55	65	65	58	58.6	
Catawissa.....	Maximum	81	83	72	68	74	79	70	73	78	74	82	78	81	92	77	79	80	77	84	73	67	72	70	82	88	84	78	85	85	82	78.3	
	Minimum	43	50	45	50	50	60	55	46	56	46	59	48	48	55	55	39	41	56	61	60	58	55	57	59	65	60	58	51	61	60	53.6	
Chambersburg.....	Maximum	78	80	78	69	81	78	69	72	82	75	68	68	84	85	77	75	78	75	83	78	74	71	70	80	81	79	76	78	80	77	76.6	
	Minimum	43	60	50	55	59	63	52	47	60	54	47	57	63	62	54	46	50	55	63	63	58	62	62	64	59	57	52	65	62	59	56.9	
Claysville.....	Maximum	73	76	74	76	79	75	76	72	77	71	80	83	91	87	74	83	89	80	83	89	82	88	84	81	75	80	81	79	80	79	79.9	
	Minimum	46	54	39	50	66	56	51	48	56	46	48	54	63	63	64	48	50	63	67	60	66	60	62	61	61	55	56	49	62	59	55.8	
Clearfield.....	Maximum	79	80	74	.....	74	73	76	74	73	68	76	82	87	81	77	83	79	75	.....	.....	.....	84	75	83	80	75	80	80	77	76	77.7°
	Minimum	37	62	75	.....	38	59	53	43	56	52	36	33	56	62	52	37	42	56	62	.....	.....	61	64	62	60	55	47	61	60	54	52.7d
Coatesville.....	Maximum	79	83	75	69	74	82	69	77	84	70	67	74	82	89	77	75	80	79	83	76	68	66	82	87	85	79	84	82	79	77.4		
	Minimum	41	64	53	60	59	59	58	54	62	50	49	57	62	62	57	47	47	53	66	62	60	57	56	61	67	65	63	58	67	65	58.3	
Corry.....	Maximum	76	61	65	59	63	61	67	70	68	63	73	81	87	84	69	70	81	75	68	74	76	80	76	79	77	65	71	76	75	71	72.0	
	Minimum	40	51	44	45	49	54	50	43	58	44	36	42	62	61	53	36	42	61	60	59	63	62	63	60	62	55	52	49	61	57	52.5	
Emporium.....	Maximum	77	72	70	58	71	72	65	62	73	64	73	80	85	77	68	73	81	74	71	75	68	78	70	69	74	70	78	74	70	74	72.4	
	Minimum	37	52	40	48	54	57	55	44	56	45	37	43	55	57	50	36	39	54	63	63	61	65	62	63	55	55	49	62	61	57	52.7	
Erie.....	Maximum	74	62	62	53	59	57	71	72	70	61	68	78	89	74	62	66	74	75	72	71	78	81	82	73	78	68	72	80	79	71	70.7	
	Minimum	53	47	45	48	49	50	52	54	54	48	48	54	69	60	51	48	53	64	56	59	62	65	64	63	61	59	55	63	62	59	55.8	
Franklin.....	Maximum	75	65	68	58	72	66	70	70	72	63	78	79	82	74	71	79	83	72	71	81	80	82	80	80	79	70	76	76	74	74	74.1	
	Minimum	39	51	41	43	46	51	51	43	43	46	37	44	57	54	38	39	44	60	63	60	61	63	60	60	60	54	57	48	56	58	50.9	
Freeland.....	Maximum	76	74	74	62	63	74	64	74	74	64	70	78	80	87	70	71	78	77	71	73	64	68	59	80	80	80	72	79	78	70	72.8	
	Minimum	46	54	41	47	50	53	49	44	52	49	42	47	55	60	59	41	49	52	60	54	54	51	52	54	62	58	54	53	58	54	51.9	
Gettysburg.....	Maximum	80	83	81	71	80	80	71	76	83	74	70	69	83	87	80	76	79	78	85	78	75	70	68	82	84	81	77	81	82	77	78.0	
	Minimum	50	63	54	57	61	63	54	54	60	55	52	51	63	67	59	49	52	57	65	62	63	58	60	62	64	62	59	55	66	63	58.7	
Greensburg.....	Maximum	74	73	69	70	69	73	63	73	72	65	77	80	88	78	74	80	85	78	80	82	79	82	81	82	76	73	75	67	78	76	75.7	
	Minimum	45	55	42	52	65	58	51	50	56	51	44	53	65	53	55	54	53	64	67	63	66	60	64	64	61	59	55	51	63	59	56.9	
Grove City.....	Maximum	74	74	64	62	70	69	66	66	69	60	70	77	85	84	71	71	80	73	68	75	77	79	78	76	76	69	71	75	73	73	72.6	
	Minimum	43	35	40	46	54	55	50	46	53	47	39	49	62	62	51	43	47	62	63	60	66	63	63	62	62	57	56	50	62	58	53.5	
Hamburg.....	Maximum	78	80	80	76	70	79	77	76	76	76	78	78	80	89	73	78	72	71	84	71	68	69	76	80	83	85	78	84	82	80	77.6	
	Minimum	44	60	50	56	53	56	52	49	42	44	43	45	56	61	59	44	44	45	59	66	59	56	56	58	59	57	55	47	56	50	52.7	
Harrisburg.....	Maximum	77	80	70	62	71	78	69	75	83	71	67	70	81	85	75	73	77	76	85	77	67	66	64	80	83	81	77	80	80	72	75.1	
	Minimum	52	60	56	55	57	69	57	56	61	56	51	57	64	68	60	52	54	62	66	62	60	57	58	61	65	64	61	57	65	65	59.3	
Hawley.....	Maximum	77	77	74	66	57	79	75	76	75	69	74	82	79	89	72	74	81	78	68	72	72	60	65	81	87	84	76	85	78	77	75.3	
	Minimum	38	57	44	44	50	54	52	42	55	50	36	41	53	62	53	38	39	54	61	57	54	53	55	56	63	61	58	50	57	61	51.6	
Huntingdon.....	Maximum	81	78	72	67	79	76	70	76	78	69	72	77	86	85	78	78	81	77	83	80	75	74	68	86	85	81	74	80	81	73	77.2	
	Minimum	40	58	41	41	55	62	55	46	59	53	39	53	59	60	50	40	44	56	62	62	64	60	61	62	60	57	56	50	63	62	54.4	
Johnstown.....	Maximum	78	77	71	64	77	73	64	76	73	68	77	81	91	82	79	82	86	71	80	81	80	85	74	83	80	80	75	83	83	70	77.5	
	Minimum	46	57	47	57	62	55	53	50	57	52	44	49	58	62	60	46	49	59	66	65	66	61	66	64	61	58	57	51	62	60	56.7	
Lancaster.....	Maximum	80	82	77	73	73	81	76	78	83	75	69	6																				

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. JULY, 1928. No. 7

GENERAL SUMMARY.

The temperatures averaged slightly above the normal with no unusual extremes. The rainfall excess was approximately twenty-five per cent, and was occasioned chiefly by heavy local storms that did considerable damage. On the 4th local storms did much damage in Allegheny County, chiefly southeast of Pittsburgh. At Rainbow Gardens and Olympia Park, 400 automobiles were destroyed in landslides, and 2000 persons were marooned by flood waters. Lightning struck a storage house and a church, resulting in damages of more than \$5000. On the 11th, heavy rains flooded Mill Creek in Westmoreland County, destroying a bridge and filling many cellars in the villages of Oak Grove and Waterford. On the same date a severe hail-storm occurred in Franklin County, doing much damage over a narrow path. On the 20th, a local storm, quite evidently a tornado, occurred near Mifflintown. Destruction was almost complete, at intervals, over a narrow path for several miles. No estimates of the amount of damage were received. On the 22d much damage was done in Carlisle and vicinity by wind, hail, and lightning, although the rainfall was not very heavy. Hail did heavy damage to greenhouses, to windows in other buildings, and to crops in the vicinity of Carlisle. The total losses were upwards of \$25,000. The wind tore up large trees, damaged many roofs, and leveled many cornfields. Lightning struck several buildings and did considerable damage. There were some evidences of tornadic action in this storm, although no funnel cloud was seen. Aside from the damage by local storms, the month was favorable for growing crops. Corn made rapid progress. Wheat was mostly threshed or hauled into barns, with some damage in the fields by heavy rains. Oats harvest was nearly finished in the southern counties. Hay-making progressed slowly with some losses in curing, but with heavy yields reported. Potatoes and truck crops were unusually good.

TEMPERATURE.

The mean temperature for the State, as shown by reports from 83 stations, was 72.8°, which is 0.9° above the July normal. The highest mean was 77.6°, at Philadelphia-Point Breeze, while the lowest, 65.8°, was recorded at Mount Pocono. The highest temperature recorded during the month was 96°, at Phoenixville on the 4th; at Claysville and Mauch Chunk on the 8th; at Carlisle on the 11th and at Lancaster on the 20th. The lowest for the month was 40°, at Bradford on the 30th and 31st and also at Gouldsboro on the 31st. The greatest daily range of temperature was 45°, at Bradford on the 8th.

PRECIPITATION.

The average precipitation for the State, as determined from observations taken at 136 well-distributed stations, was 5.44 inches: an excess of 1.09 inches over the monthly normal rainfall. Monthly totals ranged from a maximum of 11.81 inches at Quakertown to a minimum of 2.37 inches at Philadelphia-Point Breeze. The greatest amount recorded in any 24 consecutive hours was 4.68 inches at Quakertown on the 13th and 14th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent.			Total movement, in miles	Velocity, in miles per hour			
				8 a m.	12 noon.	8 p. m.		Average	*Highest	Direction	Date
Erie.....	378.0	461.4	82	77	71	69	7,056	9.5	46	sw.	3
Harrisburg.....	303.2	455.2	67	78	58	67	3,339	4.5	34	nw.	20
Philadelphia.....	332.9	455.2	73	77	62	71	5,676	7.6	28	ne.	20
Pittsburgh.....	299.4	458.3	65	81	61	68	5,218	7.0	27	w.	9
Reading.....	270.7	455.2	59	75	56	68	3,511	4.7	22	n.	4
Scranton.....	289.5	458.3	63	78	59	70	3,892	5.2	23	s.	11

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7	8
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10	13
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5	10
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4	10
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5	7
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7	9
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10	14
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10	14
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7	9
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8	10
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5	11
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8	11
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9	15
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6	12
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8	13
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9	15
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6	10
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4	10
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5	11
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4	7
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4	7
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4	8
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8	11
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6	11
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8	12
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8	15
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7	10
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7	13
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5	9
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7	11
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6	11
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3	10
1922.....	71.9	98	38	3.65	7.58	1.45	14	10	7	9
1923.....	71.0	100	32	4.24	9.86	0.92	15	9	7	11
1924.....	69.7	97	34	3.42	7.12	0.71	17	10	4	9
1925.....	70.5	101	32	5.57	14.95	1.54	13	11	7	12
1926.....	71.8	105	35	3.82	10.63	1.14	15	9	7	10
1927.....	71.7	100	25	4.97	11.82	1.81	14	11	6	12
1928.....	72.8	96	40	5.44	11.81	2.37	16	9	6	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.7	9.0	1	3.1	21	18
Phillipsburg.....	Delaware.....	6.8	16.0	1	4.0	31	22
Mauch Chunk.....	Lehigh.....	1.1	7.6	1	1.9	31	12
Wilkes-Barre.....	Susquehanna.....	7.2	16.1	1	4.0	23	20
Williamsport.....	Susquehanna.....	5.4	13.8	6	2.1	31	20
Harrisburg.....	Susquehanna.....	6.4	11.0	1	4.6	31	17
Greensboro.....	Allegheny.....	12.2	15.7	2	10.9	20	22
West Newton.....	Youghiogheny.....	2.6	10.0	14	1.1	31	20
Lock No. 4.....	Monongahela.....	14.8	17.6	1	13.4	30	31
Pittsburgh.....	Ohio.....	13.1	16.6	5	10.8	31	25
Beaver Dam.....	Ohio.....	11.0	15.5	15	7.6	19	30

Climatological Data for July, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	74.8	.....	94	9	53	29†	30	6.68	+1.63	2.37	0	11	20	8	3	sw.	John A. Frick.
Altoona	Blair	1,615	41	70.8	-0.3	89	8	50	29†	30	6.19	+2.92	1.31	0	13	18	8	5	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	74.8	.....	95	8	51	31	36	6.26	.....	2.50	0	11	21	5	5	nw.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	75.8	+1.1	93	8	54	30†	27	5.39	+0.83	1.26	0	15	22	3	6	w.	Lehigh University.
Carlisle	Cumberland	467	61	75.6	+0.8	96	11	50	31	32	5.52	+1.66	1.95	0	14	21	5	5	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	73.4	+0.7	94	9	47	31	37	3.34	-0.43	1.25	0	11	23	3	5	.....	H. H. Yetter.
Center Hall	Center	1,272	32	70.0	-1.4	93	8	50	30	27	5.68	+1.79	1.90	0	10	20	5	6	.....	S. W. Smith.
Chambersburg	Franklin	580	28	72.6	-2.1	90	8†	52	30†	27	6.51	+3.23	2.20	0	13	17	9	5	s.	William B. Spear.
Clearfield	Clearfield	1,120	18	73.0	+1.5	95	8	47	31	38	6.21	+2.21	1.80	0	17	14	10	7	sw.	E. W. Hess.
Coatesville	Chester	380	40	75.4	+0.7	92	4†	52	31	30	7.24	+2.22	3.86	0	11	15	12	4	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	72.4	-0.1	92	9	48	31	34	3.12	-1.55	0.47	0	12	18	7	6	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	70.0	-0.2	89	9	45	31	37	5.27	+0.83	1.46	0	12	16	11	4	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	74.8	+0.8	93	9	51	31	31	3.65	-0.89	1.17	0	15	17	8	6	sw.	Ira J. Keath.
Freeland	Luzerne	1,970	13	70.3	.....	90	9	50	29	30	5.51	.....	1.50	0	13	10	13	8	nw.	Theo. Reichmann.
George School	Bucks	190	21	75.4	+1.8	93	4	52	31	31	6.21	+1.83	1.54	0	10	18	6	7	w.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	75.2	+1.2	92	8†	53	31	28	4.93	+1.31	1.06	0	13	18	7	6	w.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	71.4	+1.2	91	8	43	31	38	5.20	-0.04	1.90	0	13	16	8	7	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	68.2	.....	87	9	40	31	37	5.87	+0.20	2.75	0	10	20	5	6	w.	Gustav Holtz.
Hamburg	Berks	535	35	73.2	-0.7	92	8	46	30	40	4.71	0.00	1.41	0	14	11	4	16	w.	State Sanatorium.
Hanover	York	600	24	76.0	+0.6	93	8†	55	31	29	7.50	+3.03	2.31	0	13	18	8	5	w.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	75.4	+0.6	94	8	56	31	25	5.20	+1.33	1.74	0	13	15	8	8	w.	U. S. Weather Bureau.
Hawley	Wayne	900	9	71.7	.....	94	8†	42	30†	40	4.18	.....	2.00	0	9	19	8	4	nw.	J. S. Pennell.
Holtwood	Lancaster	200	13	75.2	.....	90	5†	57	31	24	3.80	-0.70	0.99	0	12	15	11	5	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	73.0	+0.8	94	8	48	31	35	5.45	+1.66	1.63	0	16	18	4	9	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	17	72.7	+0.7	95	11	47	30†	38	4.88	+1.77	2.20	0	12	10	14	7	.....	John S. Madore.
Lancaster	Lancaster	255	40	74.5	+1.1	96	20	48	30†	35	3.69	-0.23	0.90	0	10	18	9	4	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	71.5	-1.3	94	8	45	31	33	2.91	-1.36	0.61	0	13	18	9	4	sw.	C. P. Darling.
Lebanon	Lebanon	469	87	75.2	+1.6	95	9	61	31	35	2.98	-0.99	1.01	0	12	19	9	3	sw.	S. B. Benzing.
Lewisburg	Union	450	53	75.0	+3.5	94	8†	49	31	35	4.64	+0.64	1.75	0	14	16	8	7	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	74.7	+1.4	94	8†	51	31	37	2.58	-2.31	1.07	0	11	18	9	4	nw.	Joseph Beaver.
Lykens	Dauphin	680	13	72.9	+1.1	93	8†	45	31	38	2.58	-2.31	1.07	0	11	18	9	4	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	73.2	+0.9	96	8	44	31	41	6.82	+1.72	2.30	0	13	14	7	10	w.	R. K. Wintermute.
Mifflintown	Juniata	445	24	73.5	+0.8	95	8	49	31	37	6.91	+2.80	1.74	0	15	19	6	6	w.	Wellington Smith.
Montrose	Susquehanna	1,720	25	67.8	-0.4	85	8†	42	31	35	5.22	+0.96	3.15	0	9	17	9	5	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	65.8	-0.4	84	8†	46	31	28	8.19	+3.03	2.00	0	16	15	7	9	w.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	69.8	+0.1	89	8†	44	31	36	7.58	+2.61	2.27	0	8	17	11	3	w.	A. H. Boatman.
Narberth	Montgomery	300	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls	Bucks	60	39	74.3	+1.2	94	9	51	31	32	6.78	.....	1.70	0	14	20	2	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	75.0	.....	94	4†	48	30	34	3.61	.....	1.41	0	11	15	12	4	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	77.4	+1.2	93	20	64	29	23	3.60	-0.55	1.02	0	11	12	11	8	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	4	77.4	.....	93	9†	53	30†	24	4.97	.....	.....	0	12	19	7	5	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	77.0	+1.3	93	9†	50	31	27	3.21	-2.67	1.05	0	13	16	8	7	sw.	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	3	77.6	.....	93	8†	62	30	25	2.37	.....	0.88	0	6	17	3	11	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	17	76.6	+2.1	96	4	52	31	32	4.45	-0.59	2.10	0	7	22	6	3	s.	North Springfield Water Co.
Quakertown	Bucks	496	43	74.2	+1.7	93	8	45	31	34	11.81	+6.99	4.68	0	14	15	9	7	w.	John E. Benner.
Reading	Berks	325	58	76.0	+0.5	93	9	56	31	26	5.04	+0.82	1.25	0	10	14	7	10	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	72.8	+1.1	93	9	49	30	33	8.57	+4.74	2.23	0	14	6	12	13	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	73.4	-0.1	91	8†	49	31	32	4.11	-0.27	2.53	0	11	17	3	11	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	76.4	.....	93	9	55	31	27	5.31	+0.72	1.80	0	13	17	8	6	w.	W. S. Guiles.
State College	Center	1,217	45	70.8	+0.2	91	9	45	30	37	5.53	+1.75	1.66	0	14	14	14	3	sw.	C. A. Kern.
Stroudsburg	Monroe	500	12	72.0	+0.7	92	8	45	30†	35	7.38	+1.63	2.02	0	13	21	5	6	nw.	State Normal School.
Towanda	Bradford	754	33	71.0	+0.4	92	8	47	31	33	2.82	-1.25	0.75	0	11	16	4	11	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	69.6	+0.7	93	8	43	30†	41	4.65	+0.65	1.61	0	11	27	2	2	w.	George W. Hill.
West Chester	Chester	455	90	74.8	+0.5	92	9	54	6	30	4.47	-0.36	1.90	0	8	17	12	2	w.	Joseph W. Belt.
Williamsport	Lycoming	521	41	74.2	+1.1	95	8	49	31	35	8.02	+4.06	3.09	0	12	18	6	7	w.	Miss Veronica E. April.
York	York	400	40	75.0	+0.6	95	8†	49	30†	40	4.14	-0.85	1.57	0	10	19	8	4	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	73.6	-0.3	92	8†	51	1	34	4.63	+0.76	1.30	0	12	5	16	10	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	70.7	.....	95	8	40	30†	45	5.49	.....	1.10	0	13	17	1	13	sw.	Bradford Electric Co.
Brookville	Jefferson	1,173	37	68.5	+0.1	92	8	42	31	42	4.85	+0.29	1.50	0	9	19	7	5	.....	John Fawcett.
Butler	Butler	1,152	3	71.0	.....	90	17	42	1	36	9.08	.....	2.55	0	12	14	12	5	w.	William C. Faust.
Claysville	Washington	1,150	24	74.2	+1.5	96	8	50	31	39	9.41	+5.09	0.95	0	15	19	7	5	n.	J. L. Melvin.
Corry	Erie	1,430	16	68.9	+1.7	88	8	44	30	35	4.18	+0.85	0.95	0	10	15	15	1	sw.	Nevin R. Dickson.
Derry	Westmoreland	1,172	31	71.5	-1.8	92	8	51	29	32	4.83	0.00	1.59	0	14	2	17	12	w.	T

Daily Precipitation for July, 1928

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.....	T.			.55	2.37					.04	T.	.73	.80	.35	.02					.01		.03	.05	T.				1.73			6.68	
Altoona|||	Juniata.....		.31		.75	.12					.98	.62	.84	.12	1.31						.14	.44	.47					.07	.02			6.19	
Ansonia|||	W. Br. Susq.....	.09		T.		1.76					.48				.66	.39					T.	.11		1.38	.01							4.98	
Arendtsville|||	Lower Susq.....				.22	.13					.01	.16	.70	2.50		.03						.09		.17	.45				.80			5.26	
Baker's Summit.	Juniata.....		.04		.11	.30					.14	.70	.74		.49							.07		.34	.10				.43			3.46	
Bethlehem.	Lehigh.....				.48	.85	.77				.02		.03	1.04	.51	T.	.02				.02	.01		.07	.02	.09		1.26	.20			5.39	
Bloersville||	Lower Susq.....				.15	.11				.20	.25	.37	.25	.22							.30	.16	.27	2.27				.56				5.09	
Carlisle.	Lower Susq.....				.50	.08					.88	.01	.70	.61	.09	T.	.05				.02	.08	.01	1.65	.30			.54				5.52	
Catawissa.	N. Br. Susq.....				.58	1.25					.07	T.	.47			.01					.20	.30	.02	.02				.02	.40			3.34	
Center Hall.	Susquehanna.....				1.90	.64					.68	.22	.38	.27							.92	.42		.14				.11				5.68	
Chambersburg.	Potomac.....				.02	.29					.10	.80	2.20	.34	.08		.30					.42	.02	.85	.11			.98				6.51	
Clearfield.	W. Br. Susq.....	.20	.02		1.26	1.80				.07	.61	.05	.16	.03	.23						.11	.46	.76	.09	.02			.30	T.		.04	6.21	
Coatesville.	Lower Del.....				.28	.14	.10				.01		.22	.88	2.98								.06	.28			.28	2.01				7.24	
Colebrook.	Lower Susq.....	T.			.43	.09					.12	.08	.33	.47	.14	.26					T.	.45		.20	.09			.46	T.			3.12	
Conshohocken.	Schuylkill.....				.12	.02	.08				.42		.91	.97									.20	.23	.05			1.00	.13			4.13	
Cresson|||.	Juniata.....		.08		1.30	.46				.72	.54	.66	.88	2.20	.03							.50		.40				.11				7.88	
Doylestown.	Lower Del.....				.03	.52	1.36				.66	.21	1.10	.24	1.32								.14	.31	.22			.22	1.77			8.10	
Driftwood|||.	W. Br. Susq.....		.08		.25		1.15				.85		.40		.36		.11				.35	1.58		.75	.07					T.		5.95	
Emporium.	do.....		.10	.27	T.	1.46				.37	.69	T.		.38								.63	.07	.05	1.10	T.		.11	.04			5.27	
Ephrata.	Lower Susq.....				.39	.04	.01				.03	.05	1.17	.38	.59	T.						.02	.09		.05	.05	.16		.56	.06		3.65	
Forest City.	N. Br. Susq.....				.56	.16					.16		.03		2.10	T.					.18			.17	T.			1.60	.75	T.		5.71	
Freeland|||.	Lehigh.....	.06				.08	.59				.09	1.04	.04	1.27			T.		T.			.39		.02	1.50	T.	.01	T.		.41	.01	5.51	
George School.	Lower Del.....				.02	.09	1.09				.04			1.52	.57							T.		1.13	.21			.02	1.52			6.21	
Gettysburg.	Potomac.....				.10	.15					.42	.56	1.06	.41	.03		.48				.28		.02	.76	.14			.52				4.93	
Girardville.	Lower Susq.....				.41	1.19				.09	.09	.14	.25	.20							.15	.10	.04	.06	.15			.26				3.13	
Gordon.	Lower Susq.....				1.32	1.90	.06				.28	.04	.04	.32	.35	T.	.05				T.			.70	.02			.10	.02			5.20	
Gouldsboro||	Lehigh.....				.67	.54					.15	.25	.45	2.75								.35			.18	.25		.28				5.87	
Graterford.	Schuylkill.....				.06		.70				.02			.78	2.26							.09	.58				.04		.36	1.94		6.83	
Great Bend.	Lower Br. Susq.....					.74					.09			1.10										.22	.50	.20		.59				3.44	
Hamburg.	Schuylkill.....				.12	.96					.29	.04	.01	.74	1.41	.02	.01					.11			.20	.50		.16	.14			4.71	
Hanover.	Lower Susq.....				.47	.20					.14	.22	1.82	.40	.14		.04					.28		.01	1.15	2.31		.32	T.			7.50	
Harrisburg***.	do.....				.89	.03					.04	.45	.58	.51	.05	T.					.02	.54	.05	.99	.79			.26				5.20	
Harrisburg East.	do.....				.78	.05					.05	.20	.91	.55	.06	.01						.65	.01	1.00	.46			.29				5.02	
Harrisburg North.	do.....				.34	.01					.05	.49	.33	.82							.12		.61	.05	1.11	.37		.27				4.57	
Hawley|||.	Upper Del.....					2.00					.07	T.	.18	.80		.06								.08	.13	.03			.83			4.18	
Hollisterville.	Upper Del.....					.02	2.96				.21	T.		.02	2.64		.25	T.				.03		.06	.09	.09			.57			6.94	
Holtwood||.	Lower Susq.....				.22	T.					.01	.31	.68	.64	.10							.03	.10	.08	.29	.35		.99				3.80	
Huntingdon.	Juniata.....		.02	.15	.11	.17				.27	.28	.30	1.63	.10	.61						.06	.72	.03	.11	.03			.86				5.45	
Hyndman.	Potomac.....				.01	.13				.09	.27		2.20	.65	.12								.29		.37			.29			.02	4.88	
Lakeville.	Upper Del.....					1.65					.18		.15	2.07	T.	.11							.16	.15	.05			1.50				6.02	
Lancaster.	Lower Susq.....				.51	.05					.03	.14		.90	.90									.14	.40			.17	.45			3.69	
Lansford|||.	Lehigh.....	.03				.09	1.56				.04	.02	T.	2.50		.03						.04				.07			.10			4.48	
Lawrenceville.	N. Br. Susq.....				.10	.74					.30	T.		.20	.70	T.						.10			.45	T.	.55		.45	.24		3.83	
Lebanon.	Lower Susq.....				.30	T.				T.	.03	.40	.37	.61		.10	.28					.04	T.	.03	.09	.35			.30			.01	2.91
Lewisburg.	W. Br. Susq.....				.16	1.01					.34	.01	.09	.23	.67		.04					.07	.14					.22				2.98	
Lloyd.	do.....																																
Lock Haven.	do.....				.25	1.75	.01				.74	.01	.14		.68							.11	.30	.02	.09			.52	.01		.01	4.64	
Lykens.	Susquehanna.....				.69	.05	T.				.02	.12	.08	1.07	.15							.06	.15		.01			.18				2.58	
Mauch Chunk.	Lehigh.....	2.30			.19	1.54	.06				.09	.04	.05	.38	1.81	.02						.04		.18				.12				6.82	
Mifflintown.	Juniata.....				.54	.62				.37	.37	.91	.23	.19	.75							.46	.48	1.26	.08	.07			.57	.01		6.91	
Montrose.	N. Br. Susq.....					.33					.55	.05	.04	.70	2.45									.35	.05			.70				5.22	
Morris Run.	N. Br. Susq.....				.50	1.13					.86	.21		.68									.05	.08	.68	.03		.13				4.35	
Mount Pocono.	Upper Del.....				.20	1.00	.80																										

Daily Precipitation for July, 1928—Continued from page 33

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....			.28		.56	.09				.13		.39		.98	.06					.59	.21	.04						.58	.72				4.63
Beaver Falls|||	Beaver.....	.01		.08		.50	.12			T.	.30		.70		.96	.08				.23	1.24	.01	.02	.60	.36				.06	.55				5.84
Bradford.....	Allegheny.....		.07		.54	.68					.26	1.10		.30	.04					1.23		.78	.70						.05	.02	.25			5.49
Brookville.....	do.....			.35	.30	1.50						.50		.36		.25							.25						.10					4.85
Butler.....	Ohio.....		T.		.36	.60				.05		.34			1.20	.05	.58			2.55	1.27		1.21	.05					.82				9.08	
Claysville.....	do.....		.19		.83	.65				T.	.21	.61	.55	.96	.08	.04				2.01	.40	.67	1.01	.03				1.05	.12				9.41	
Cloeff.....	Allegheny.....			.04	.42	1.84				.36		T.		.52	T.	.05				1.28	.05		.47	.10					.23				5.36	
Clymer|||	Conemaugh.....		T.		.13	1.85				.68	.38	.33	.88		.98					.32	1.42	.54	.78	T.			T.		.14			T.	8.43	
Confluence|||	Youghiogheny.....		.20			.34	.25			.66		.42	1.72	.40	.04					T.	.30	.04	T.	.01	.12				.01	.41	T.		3.51	
Coraopolis|||	Ohio.....		T.		.01		.36	.50	.30	T.	.32		.02	T.	1.32	T.					.63	.02	.10	.33	T.				.03	.03			4.18	
Corry.....	Allegheny.....			.19	.53	.38				.13	.22		.59	.95	.04	.01					.26			.14	.64					.26				6.43
Coudersport.....	do.....					1.38		1.32						.28																				
Creekside.....	Allegheny.....		1.20		.68	1.61						.24	.27	.42	.05					2.23	.46		.85						.21	.01			8.28	
Derry.....	Conemaugh.....		.14		.50	.90					.58	.48	T.	1.53	.06						.05	T.	.47										4.83	
Donora|||	Monongahela.....			.03		.23	T.			T.	.40		.37	.04	.30	T.		.08			.14		.38	.05	T.		.03		.15	.03			2.93	
Ebensburg.....	Conemaugh.....				.33	.65				.11	.75	.22	.70	T.	.32						.16	.35	.08	.36	.30					.16			4.55	
Elk Lick.....	Youghiogheny.....				.12	.28				.30		.80	.20	1.15	.04						1.22		.02						.38				4.51	
Falls Creek.....	Allegheny.....		.04		.82	1.60				.15		.45		.10	.34		.51				.26	1.06		.11	.15				.07				5.66	
Franklin|||	Allegheny.....				.05	2.54	.22			.41	.02	.04			.64	.04	.05				.39	.56		.10	1.04	.04			.41	.18	.06		6.79	
Freeport|||	do.....		.01		.08		.70	.54		.33		.56	.49	.59	.29					.02	2.44	.12		.61	.18					1.20			8.16	
Greensboro.....	Monongahela.....		.06		.38		.25	.10			.55	.80		.20							.06	.72	.17	.72	.18					.26			4.45	
Greensburg.....	Youghiogheny.....		.25		1.92	.69	.01			1.35	.40	.31	.01	.38	.07		.05				.05	.03	T.	.07	T.				.09	.05			5.73	
Greenville.....	Beaver.....		.03		T.	1.39				.70	.20	.62	1.03	.12							.25	.74	T.	.28	.75		.80		.04	.17			6.62	
Grove City.....	Beaver.....		.03		T.	2.27				.23	.06	.05		.38	.15	.17	.09				1.47	.91	.01	.20	.18				.04	.38			6.62	
Herr's Isl. Dam|||	Ohio.....				1.10	.61					.33		.11	.05	1.88	.02					.09	.02		.32	.03					.16			4.72	
Ingram.....	Ohio.....		.01		.44	1.18				.37	T.	.22	.07	1.85	.05						.01	.25	.03	.42	.24				.14	.08			5.36	
Irwin.....	Youghiogheny.....		.35		1.25	1.40				T.	.34	.11	.06	.50	.11		T.				.09	.05	T.	.18	.18			T.	.15	.01			4.78	
Johnstown.....	Conemaugh.....																																	
Kegonsa|||	Youghiogheny.....		T.		1.19	.27				.45	.02	.78	.38	.38			T.				.94	.08	T.	1.13	T.				.50			.94	7.06	
Linesville|||	Beaver.....					.78					.21	.58	T.		1.05	.12	.01				.23	.19	.01	.06	.73			.15	.23				4.35	
Lock No. 4|||	Monongahela.....		.04		T.		.18	.16			.46		.25	.17	.41	T.					.52	1.18	.01	1.06	.01				.01	.38				4.84
Lycippus.....	Conemaugh.....				.85	.97				.82		.42	1.21	.03							.82	.06		.07					.06	.30			.57	6.45
Mount Lebanon.....	Ohio.....				.01	1.97				.07	.21	.07	2.30	.07							.23	.63		.09	.04				.25	.07			6.01	
New Castle|||	Beaver.....		.01		.02	.69		.09	.01		.38		.17	.01	.86	.09	.01			.01	.54	1.83	.43	.03	.47	.32	.02	.01	.09	.05	.08		.02	6.62
Newell.....	Monongahela.....			.05		.06	.06			.63	.10	.48	.40								.30	.22	.30	.72					.18	.07			3.57	
Parkers Landing|||	Allegheny.....				T.	1.16	.72			.10		.17			1.35		.38				.18	1.54	T.		.36	.15			.55	.25				6.91
Pennline|||	Beaver.....					.64	.16				.35	.53			.82	.15	.05				.27	.20		.40					.35	.49			4.41	
Pittsburgh***	Ohio.....				.64	1.35					.18		.10	.02	1.74	T.	T.				.02	.03	T.	.66	.06				.13	T.		T.	4.93	
Ridgway.....	Allegheny.....				1.35	.99				.21				.13							.43	.88	.75	.12	.07		.02			.02				5.49
Saegertown.....	Allegheny.....						.27						.52	.35	.43						.06	.05	.06		.70				.31				4.98	
Saltsburg|||	Conemaugh.....				T.	.60				.73		T.		1.04	T.	T.					.54	.50	.04		.46				.18	.61			5.74	
Sharon|||	Beaver.....			.31	.50	.73	.15																											
Somerset.....	Youghiogheny.....				.28	.68				.48	.20		.32	.15	.47		.04				.43	.22	.08	.34	1.08			.08	.12				4.97	
Springdale|||	Allegheny.....		.01		T.	.69	.26			.43		.10	.64	1.00	.01						.01	.48	.02	.01	.94	.01			.10	.09	.01		5.71	
Uniontown.....	Monongahela.....			.39		.13	.17			.20	.07	.63	.17	.55	.02							.61	.40	.28	.14				.07	.65			4.48	
Unity Reservoir|||	Youghiogheny.....			.20		1.85	.90	.05		1.04	.35	.33	T.	.63	.12		.05				.04	.14		.15	T.				.24	.05			6.14	
Vandergrift|||	Conemaugh.....			.01		.27	1.10			.27		.17	.81	2.74	.11						.98	.28	.15	.25	.21				1.23	.02			8.55	
Warren.....	Allegheny.....			.38		1.26				.40	.32	.18	.06		.48	.04	.04				.72	.08	.72	.15	.08								4.91	
Washington.....	Ohio.....			.03		.32	.33			.07		1.40	.30	1.62	.03	.02					1.31	1.01	.05	1.30	.06				.76	T.		T.	8.61	
Westford|||	Beaver.....					.58					.33	.36			.96						.30	.51		.68					.23	.25			4.20	
West Newton|||	Youghiogheny.....				.10		.72	.20			1.03		.45	.02	.42							.33	.29	T.	.53			.61	.02	.14			5.21	
Zellenople|||	Ohio.....			.37	.24	.74	.05				.10		.40		.84						.47	1.88	.20		.37	.22			.03	.75			6.66	
Lake Drainage.																																		
Erie***	Lake Erie.....			.27		T.				1.06		.44		1.04	.18	.01					.56			.01	T.				T.	T.			.06	8.63

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Blosserville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Anomink; of Unity Reservoir, Greensburg.
† Mdt. to mdt.

Daily Temperatures for July, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	85	82	89	92	85	82	82	93	94	83	90	89	82	81	83	87	90	92	89	92	72	76	88	88	88	89	82	86	78	79	82	85.5
	Minimum	60	62	66	67	64	60	65	66	71	71	65	67	67	60	63	63	66	68	71	62	63	64	64	65	64	69	69	60	53	53	56	64.0
Altoona.....	Maximum	78	80	87	86	73	81	84	89	88	85	87	77	75	70	77	81	85	86	85	87	85	82	82	80	83	85	78	77	73	77	80	81.4
	Minimum	57	56	59	66	64	59	54	61	65	65	63	60	61	62	53	59	57	59	66	65	69	68	66	61	57	58	63	63	50	51	50	60.2
Beaver Dam.....	Maximum	83	85	87	89	86	83	89	92	92	87	89	83	80	71	80	86	89	89	90	90	86	88	84	84	83	89	89	80	77	80	86	85.4
	Minimum	51	59	61	69	67	61	58	62	70	68	63	65	62	62	60	59	58	61	66	63	69	67	69	63	58	59	66	64	52	52	52	61.8
Bradford.....	Maximum	83	87	89	87	77	87	91	95	91	90	86	86	76	70	81	83	89	89	87	87	85	80	83	83	87	88	88	86	76	77	84	84.8
	Minimum	50	56	54	64	58	72	50	50	57	66	54	58	58	57	69	48	52	50	58	66	65	64	60	62	53	60	59	59	45	40	40	56.6
Brookville.....	Maximum	81	85	87	83	77	82	67	92	88	86	89	84	74	72	79	85	87	88	87	89	83	84	83	82	85	87	76	79	84	82	82.9	
	Minimum	47	56	56	60	55	50	48	54	57	57	55	57	58	54	53	51	49	51	58	64	66	63	58	53	51	51	50	44	42	42	54.1	
Butler.....	Maximum	78	80	85	84	75	80	85	86	85	85	88	85	70	70	75	85	90	87	87	89	80	86	80	80	85	88	78	79	80	82	82.1	
	Minimum	42	56	59	62	66	58	52	57	58	68	62	64	60	62	59	59	61	56	66	68	68	65	66	62	55	56	64	62	46	54	60	59.8
Carlisle.....	Maximum	86	90	91	90	81	86	89	95	94	90	96	87	85	80	84	88	90	92	92	93	86	86	87	87	88	91	89	85	79	82	82	87.8
	Minimum	64	64	62	65	65	63	58	63	65	71	66	63	66	70	55	58	58	63	62	71	68	69	72	62	64	62	67	67	57	54	50	63.4
Catawissa.....	Maximum	87	89	91	93	77	85	91	93	94	85	91	85	83	82	82	90	92	90	89	91	76	90	86	91	88	92	74	85	81	84	80	86.8
	Minimum	56	53	57	62	65	60	58	64	64	64	68	62	63	70	54	58	58	57	58	63	61	66	67	58	60	59	61	64	54	48	47	60.0
Chambersburg.....	Maximum	80	83	85	86	77	81	84	90	89	86	87	82	79	78	80	82	85	87	86	90	85	84	84	82	84	85	83	83	75	76	79	83.1
	Minimum	59	56	60	64	66	59	58	63	66	70	62	63	65	68	56	57	58	60	63	70	65	69	70	63	59	62	67	67	56	52	52	62.1
Claysville.....	Maximum	90	87	90	93	87	81	84	90	89	86	87	82	79	78	80	82	81	91	91	91	92	92	87	86	86	89	89	87	89	80	82	88.2
	Minimum	52	55	61	65	67	58	55	60	68	67	64	62	63	60	59	56	55	57	66	69	66	67	70	54	54	59	66	62	49	51	50	60.2
Clearfield.....	Maximum	81	80	85	89	76	88	90	95	93	88	86	84	74	73	82	80	89	92	89	90	83	88	86	91	88	91	84	82	82	85	84	80.4
	Minimum	52	59	54	62	54	53	57	63	66	59	60	61	63	68	64	52	55	61	66	65	67	64	72	68	68	65	60	60	62	62	62	60.6
Coatesville.....	Maximum	84	88	89	92	87	82	86	92	92	83	86	86	84	81	84	86	89	91	90	91	85	79	78	86	86	88	86	87	78	82	85	85.8
	Minimum	65	62	61	68	67	64	61	65	69	70	71	66	68	70	56	62	63	63	69	74	64	67	71	66	66	65	68	70	61	53	52	65.1
Corry.....	Maximum	79	81	85	85	77	88	85	88	86	82	83	78	75	68	74	82	84	85	83	82	78	76	76	76	80	81	80	69	69	72	81	79.2
	Minimum	49	57	51	61	63	52	52	60	70	66	64	61	57	60	58	55	55	55	69	68	67	66	61	64	58	56	62	62	47	44	46	58.6
Emporium.....	Maximum	81	81	85	85	75	79	85	88	89	84	84	81	76	73	77	82	85	85	83	84	77	80	82	80	82	82	80	76	73	73	82	80.9
	Minimum	55	56	60	63	63	54	53	53	63	68	60	64	62	65	58	58	52	58	62	68	67	70	64	62	58	58	62	60	48	47	45	59.2
Erie.....	Maximum	80	82	88	84	75	77	84	90	87	84	80	75	69	69	77	81	86	84	79	79	77	78	78	78	80	80	82	69	71	73	81	79.3
	Minimum	59	66	66	73	69	61	63	72	69	70	65	64	64	61	61	64	69	69	68	67	69	67	67	66	67	67	69	63	60	56	57	65.5
Franklin.....	Maximum	81	85	86	86	80	85	90	91	87	86	86	82	71	71	77	85	90	86	88	89	85	84	82	81	84	84	80	73	75	79	84	83.0
	Minimum	51	52	58	67	63	60	53	59	65	66	59	63	56	60	59	55	53	56	64	67	68	67	62	63	55	57	60	61	48	46	52	58.5
Freeland.....	Maximum	79	80	86	86	79	79	83	88	90	80	86	83	79	78	79	82	84	84	84	85	84	75	72	83	81	80	84	78	78	71	72	80.8
	Minimum	56	58	61	64	62	58	57	63	67	64	56	59	60	64	53	59	60	64	66	64	55	60	64	58	60	61	64	62	50	52	52	59.8
Gettysburg.....	Maximum	84	87	88	89	82	84	86	92	92	86	88	85	84	80	81	84	89	89	90	92	88	86	87	84	86	89	84	85	82	79	81	85.9
	Minimum	62	61	62	67	68	63	61	66	70	70	66	64	66	71	59	60	61	62	66	71	65	69	71	64	64	65	69	67	58	54	53	64.4
Greensburg.....	Maximum	82	83	86	86	80	81	87	94	91	86	88	83	80	71	79	83	87	87	86	88	86	85	83	82	85	88	80	78	75	78	86	83.7
	Minimum	54	58	59	65	66	61	56	62	66	67	65	63	62	62	58	60	58	60	66	68	68	67	70	61	56	61	67	63	53	55	53	61.6
Grove City.....	Maximum	77	79	84	83	79	77	85	88	84	82	85	77	77	69	75	80	84	85	84	85	81	80	78	77	82	83	78	76	71	72	80	79.9
	Minimum	51	59	61	70	64	57	55	61	68	70	65	65	60	60	58	57	55	58	69	67	68	67	63	63	56	58	65	67	45	48	50	60.7
Hamburg.....	Maximum	90	89	87	86	89	86	87	92	91	90	88	88	79	82	86	85	89	90	89	89	90	74	86	84	86	87	80	80	84	86	84	86.2
	Minimum	50	49	57	60	65	58	60	62	66	65	62	62	65	71	55	57	62	58	64	71	63	66	68	61	63	62	67	60	48	46	47	60.3
Harrisburg.....	Maximum	85	87	87	88	80	83	86	94	92	81	87	85	80	80	81	86	90	89	92	77	82	85	86	87	90	77	85	77	80	80	86.4	
	Minimum	67	62	64	68	68	65	65	69	71	72	68	66	67	66	62	64	65	64	70	67	65	69	66	68	68	68	70	68	60	58	56	66.0
Hawley.....	Maximum	83	86	89	90	86	81	88	94	94	89	89	85	78	87	81	87	88	89	88	86	78	75	84	84	84	86	86	84	80	76	82	85.1
	Minimum	57	54	54	61	65	61	53	58	62	67	64	60	63	69	55	56	53	57	60	65	56	62	61	57	55	56	64	64	55	42	58.3	
Huntingdon.....	Maximum	84	84	90	89	78	85	90	94	93	89	89	80	82	75	81	82	90	89	91	81	88	87	85	88	89	80	82	78	80	83	85.4	
	Minimum	56	54	59	63	63	58	56	62	63	68	64	61	63	67	58	58	58	59	63	68	69	72	66	59	57	58	65	64	49	48	60.5	
Johnstown.....	Maximum	88	90	89	94	87	85	87	94	93	89	90	88	85	85	84	88	90	92	93	96	91	84	89	89	89	91	87	89	85	83	83	88.6
	Minimum	56	55	57	63	62	60	59	61	64	68	66	62	64	68	55	55	55	58	62	65	67											

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. AUGUST, 1928. No. 8

GENERAL SUMMARY.

With two exceptions, 1900 and 1918, this was the warmest August during the last 41 years, and yet the maximum temperature for the State was only 99°. The heat was steady, and with generally high humidity resulted in oppressive and uncomfortable conditions. With the rainfall above the August average, the high temperatures made for a rapid growth of all crops. However, it also caused a rapid growth of weeds, and since the frequent rains delayed cultivation, the result was many weedy fields. Rains damaged oats in shock to some extent, and caused some losses of hay in the curing. However, the hay crop was so heavy that the losses did not reduce the yield of good hay below the normal. The conditions seemed to be decidedly favorable for potatoes, and at the end of the month the Federal-State Crop Reporting Service estimated the largest crop ever grown in the State. There was practically no blight in the early crop, while in the late varieties it was confined to a few counties. Truck crops of nearly all kinds were unusually good. Early peaches ripened during the latter part of the month, and were plentiful on the market. The quality was fair to good. Apples fell from the trees a little more than usual on account of excessive rains. A few damaging storms occurred during the month, but no more than are common to August. The most severe storms occurred on the 10th, and the regions of greatest damage were Towanda and vicinity, and Lancaster and vicinity. In the former region 12 small bridges were reported destroyed by high water, and the crop damage was considerable. In Lancaster and vicinity heavy hail damaged crops, especially tobacco, while winds and lightning destroyed several buildings. On the 30th a man was killed in Philadelphia by lightning, while high winds uprooted many large trees.

TEMPERATURE.

The mean temperature for the State, as deduced from reports of 84 stations, was 73.4°, which is 3.4° above the normal August temperature. The highest monthly mean was 77.8°, at Philadelphia-Navy Yard and the lowest was 67.6°, at Mount Pocono. The highest temperature recorded during the month was 99°, at Phoenixville on the 4th, and the lowest was 35°, at Ridgway on the 13th. The greatest daily range of temperature was 47°, at Muncy Valley on the 30th and 31st.

PRECIPITATION.

The average precipitation for the State, as shown by observations taken at 135 stations, was 4.60 inches: an excess of 0.37 inch as compared with the monthly normal. The greatest monthly amount was 10.87 inches, at Hawley, while the lowest was 1.32 inches at Beaver Falls. The greatest amount recorded in any 24 consecutive hours was 5.28 inches at Coatesville on the 16-17th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		Date
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	
Erie.....	368.4	428.7	86	76	66	72	7,122	9.6	32	nw.
Harrisburg.....	181.6	425.1	43	85	64	72	3,333	4.5	18	n.
Philadelphia.....	212.9	425.1	50	82	64	72	5,982	8.0	44	ne.
Pittsburgh.....	284.2	426.9	67	83	58	68	5,710	7.7	29	nw.
Reading.....	212.8	425.1	50	80	61	74	3,475	4.7	21	se.
Scranton.....	230.6	426.9	54	85	68	77	3,647	4.9	23	s.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	of inch or more prec.
1888.....	69.8	100	33	7.05	11.27	3.18				
1889.....	67.4	100	37	3.24	7.07	0.83				
1890.....	68.8	99	34	5.76	9.65	2.58	9	14	8	12
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11	12
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10	9
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7	8
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5	9
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6	8
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6	9
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9	12
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5	9
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9	11
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5	8
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10	14
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6	9
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7	12
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9	12
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9	10
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6	7
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6	7
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7	6
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12	13
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10	14
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5	8
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7	11
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10	15
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4	8
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6	10
1918.....	73.6	106	32	4.12	8.02	1.05	16	10	5	11
1919.....	68.2	94	35	5.43	12.03	2.35	13	10	8	12
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10	15
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6	9
1922.....	69.1	100	31	3.14	8.16	1.15	15	9	7	10
1923.....	69.2	96	30	3.10	7.30	0.59	15	11	5	9
1924.....	70.1	102	31	3.78	7.54	1.48	16	10	5	9
1925.....	69.7	97	26	2.28	5.14	0.65	18	8	4	7
1926.....	71.9	103	32	6.69	10.04	2.95	11	8	12	15
1927.....	65.5	92	34	4.12	11.49	1.13	12	10	9	12
1928.....	73.4	99	35	4.60	10.87	1.32	13	11	7	12

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.7	6.0	27	2.9	22	18
Phillipsburg.....	Delaware.....	4.2	9.0	27	3.0	3	22
Mauch Chunk.....	Lehigh.....	2.3	1.4	18	2.8	12	12
Wilkes-Barre.....	Susquehanna.....	4.7	7.1	9	3.5	21	20
Williamsport.....	Susquehanna.....	1.7	3.4	3	0.9	30	20
Harrisburg.....	Susquehanna.....	10.9	12.1	3	10.4	16	17
Greensboro.....	Allegheny.....	11.6	13.9	2	10.2	15	22
West Newton.....	Youghiogheny.....	1.0	2.3	3	0.7	21	20
Lock No. 4.....	Monongahela.....	14.0	15.8	2	12.7	16	31
Pittsburgh.....	Ohio.....	10.9	12.1	3	10.4	16	25
Beaver Dam.....	Ohio.....	7.8	9.3	3	7.4	14	30

Climatological Data for August, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	73.8		95	4	52	12	28	9.95	+5.60	2.32	0	15	14	15	2	sw.	John A. Frick.
Altoona	Blair	1,615	41	71.7	+2.1	90	9	48	13	32	2.55	-0.84	0.95	0	8	18	10	3	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	74.5		96	5	51	21	33	5.76		1.75	0	11	17	5	9	n.w.	Dr. S. W. Frost.
Bethlehem	Northampton	295	44	75.4	+1.7	93	5	55	13	28	9.72	+5.40	3.22	0	15	17	5	9	sw.	Lehigh University.
Carlisle	Cumberland	467	61	75.5	+2.8	94	3†	50	21	38	4.97	+0.01	1.12	0	10	17	7	7	sw.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	74.2	+3.9	97	4†	49	13	40	3.79	-0.33	1.22	0	14	16	8	7	sw.	H. H. Yetter.
Center Hall	Center	1,272	32	69.9	+0.7	91	3†	45	2†	45	2.89	-1.07	0.64	0	9	22	7	2	sw.	S. W. Smith.
Chambersburg	Franklin	580	28	73.2	+1.0	92	9	50	14	35	2.44	-1.80	1.25	0	14	7	14	10	sw.	William B. Spear.
Clearfield	Clearfield	1,120	18	75.2	+5.3	94	4	48	13†	43	3.59	-1.55	1.31	0	10	18	11	2	w.	E. W. Hess.
Coatesville	Chester	380	40	75.6	+5.9	94	4	54	14	32	8.59	+4.16	5.28	0	13	10	17	4	se.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	73.0	+2.4	93	3†	58	13†	33	4.99	+0.15	1.67	0	13	13	7	11	se.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	70.4	+2.5	88	4	47	13	51	6.01	+1.94	1.55	0	10	16	12	3	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	74.8	+3.0	93	4†	53	13	31	4.75	-0.15	1.76	0	13	11	8	12	s.	Ira J. Keath.
Freeland	Luzerne	1,970	13	70.4		90	5	50	13†	25	4.75		1.12	0	17	6	14	11	n.	Theo. Reichmann.
George School	Bucks	190	21	76.0	+4.6	95	4†	56	13†	31	4.54	-0.06	1.82	0	13	17	4	10	s.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	75.1	+3.4	93	3†	54	14†	32	5.84	+1.77	2.07	0	14	10	10	11	sw.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	72.1	+3.9	92	4	46	20	37	4.95	+0.18	0.80	0	13	11	7	13	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	68.1		89	5	42	13	41	3.74	-1.44	1.15	0	10	13	11	7	w.	Gustav Holtz.
Hamburg	Berks	535	35	73.3	+1.6	94	4	45	23	34	4.47	-0.89	1.10	0	14	13	10	8	sw.	State Sanatorium.
Hanover	York	600	24	75.7	+2.1	95	3†	55	13	30	4.85	+0.07	1.76	0	15	4	9	18	sw.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	75.0	+2.4	93	4	58	14	26	3.64	-0.61	1.10	0	15	13	10	8	w.	U. S. Weather Bureau.
Hawley	Wayne	900	9	71.5		93	4	44	13	38	10.87		3.10	0	15	13	10	8	w.	J. S. Pennell.
Holtwood	Lancaster	200	13	76.0		95	5†	59	13	23	10.12	+6.62	3.50	0	12	9	8	14	sw.	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	73.2	+2.5	95	5	48	1	36	4.06	-0.03	1.64	0	14	13	7	11	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	17	73.8	+2.9	95	3	50	15	35	3.15	-1.13	1.10	0	12	10	12	9	sw.	John S. Madore.
Lancaster	Lancaster	255	40	74.6	+1.9	97	3	52	13	35	4.49	+0.46	2.32	0	5	18	9	4	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	72.4	+4.3	94	3†	45	13	38	3.54	-0.26	1.20	0	8	20	7	4	sw.	C. P. Darling.
Lebanon	Lebanon	462	87	74.7	+2.7	96	5	53	13	32	5.78	+1.17	1.75	0	13	10	13	8	sw.	S. B. Benzing.
Lewisburg	Union	450	53	75.0	+6.1	95	3	51	19	36	4.62	-0.05	0.99	0	16	12	14	5	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	76.1	+4.8	98	3	52	13	37	4.47	+0.30	1.35	0	10	14	13	3	w.	Joseph Beaver.
Lykens	Dauphin	680	13	73.6	+3.4	96	4	47	20	39	5.62	+1.05	2.86	0	11	15	13	6	n.w.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	73.6 ^b	+3.8	95 ^b	5	47	13	45	4.69	+0.65	2.06	0	12	15	6	10	sw.	R. K. Wintermute.
Mifflintown	Juniata	445	24	73.6	+3.0	94	3†	50	21	36	3.24	-1.28	0.87	0	15	16	6	9	sw.	Wellington Smith.
Montrose	Susquehanna	1,720	25	69.8	+2.9	88	4	48	13	29	9.09	+4.88	1.85	0	12	16	6	9	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	67.6	+3.4	86	5	44	20	30	5.86	+1.52	2.30	0	12	12	5	14	w.	Oecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	70.8	+3.1	93	4	39	13	47	3.24	-2.00	1.20	0	4	16	10	5	w.	A. H. Boatman.
Narberth	Montgomery	800	9																	Charles Decker.
Neshaminy Falls	Bucks	60	39	74.6 ^a	+3.6	95 ^a	4†	57 ^a	13†	31†	4.48		1.35	0	18	12	5	14	s.	North Springfield Water Co.
Palmerston	Carbon	398	11	74.1		95	4†	49	13	36	4.71		1.20	0	11	11	14	6	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	77.2	+2.4	95	4	59	12	20	5.47	+0.85	2.76	0	12	4	13	14	sw.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	113	4	77.4		96	4	59	12	22	5.94		3.02	0	11	8	12	11	sw.	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	77.8	+3.8	98	4	60	12	26	5.18	+0.28	2.52	0	12	11	8	12	sw.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	77.3		96	5	59	12	25	5.91		3.10	0	12	11	8	12	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	17	77.2	+4.5	99	4	56	13†	32	4.85	+0.33	1.62	0	9	17	10	4	sw.	North Springfield Water Co.
Quakertown	Bucks	496	43	74.7	+7.5	95	4†	51	13	38	5.96	+1.67	1.96	0	13	12	8	11	sw.	John E. Benner.
Reading	Berks	325	58	75.7	+3.3	94	4	58	13	27	4.82	+0.34	1.96	0	13	9	10	11	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	72.9	+3.1	91	4	52	13	32	6.04	+1.79	1.97	0	17	8	11	17	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	74.1	+2.6	93	5	52	20†	34	4.26	-0.14	1.25	0	15	12	11	8	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	76.8		95	4†	58	13	26	7.38	+2.25	3.96	0	12	8	14	9	sw.	W. S. Guiles.
State College	Center	1,217	43	72.2	+3.5	91	3	50	13†	34	3.51	-0.27	1.07	0	9	7	18	6	sw.	C. A. Kern.
Stroudsburg	Monroe	500	12	72.0	+3.2	96	4	47	13	35	6.24	+0.93	1.85	0	16	16	4	11	n.w.	State Normal School.
Towanda	Bradford	754	33	71.8	+3.3	90	4	50	13	32	2.65	-1.05	1.22	0	13	16	8	7	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	70.7	+4.3	91	5	45	11	37	3.50	-0.21	1.12	0	9	26	3	2	sw.	George W. Hill.
West Chester	Chester	455	90	74.3	+2.8	93	4	55	12	27	5.77	+1.09	2.75	0	12	13	13	5	w.	Joseph W. Belt.
Williamsport	Lycoming	521	41	74.4	+3.7	94	5	52	13	34	4.10	-0.51	1.08	0	12	15	10	6	sw.	Miss Veronica E. April.
York	York	400	40	74.8	+2.2	96	5	51	13	37	5.06	+0.77	1.94	0	12	13	12	6	ne.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	85	74.8	+2.3	93	10	53	13	33	2.48	-1.30	1.47	0	7	4	21	6	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	72.0		94	5	41	13	43	1.70		0.70	0	6	22	1	8	n.w.	Bradford Electric Co.
Brookville	Jefferson	1,173	37	70.1 ^a	+3.6	93 ^a	3	41 ^a	31	44 ^a	4.35	+0.22	1.50	0	6	20	9	2	sw.	John Fawcett.
Butler	Butler	1,152	3	75.3 ^b		92	9	41 ^a	20	44 ^a	2.68		0.95	0	6	21	6	4	w.	William C. Faust.
Claysville	Washington	1,150	24	75.6	+4.1	97	9	48	13†	43	2.88	-1.45	0.95	0	13	19	7	5	s.	J. L. Melvin.
Corry	Erie	1,430	16	71.8	+6.4	92	15†	40	12	40	2.53	-1.46	0.48	0	12	9	15	7	sw.	Nevin R. Dickson.
Derry	Westmoreland	1,172	31	72.9	+1.6	88	3†	49	13†	33	5.43	+1.26	1.81	0	11	10	19	2	sw.	Ted R. Wineman.
Donora	Washington	762	2	75.8		92	3†	56	20	31	2.77		0.88	0	9	0	18	13	sw.	Donora Zinc Works.
Ebensburg	Cambria	2,000	10	68.8 ^a		88 ^a	10	43 ^a	20	38 ^a	3.30		0.85	0	11	15	12	4	w.	D. H. Jones.
Elk Lick	Somerset	2,680	11	68.4		88	5†	43	13	37	3.08		1.02	0	8	19	8	4	w.	J. S. Stevanus.
Franklin	Venango	957	55	71.5	+3.2	91	3†	49	13	36	5.03	+1.23	1.30	0	13	11	8	17	w.	Robert A. Fergus.
Greensburg	Westmoreland	1,150	20	73.8	+3.1	91	15†	51	13	35	5.25	+0.88	1.43	0	16	10	14	7	w.	Westmoreland Water Co.
Greenville	Mercer	950	33	71.6	+3.0	92	3	46	13	37	3.62	-0.14	1.14	0	9	16	12	3	sw.	J. R. Marks.
Grove City	Mercer	1,256	21	71.4	+2.7	88	3†	50	13	30	3.92	+0.25	1.48	0	10	12	12	7	n.w.	Prof. H. W. Harmon.
Ingram	Allegheny	850	5	73.4		90	29	53	20†	30	2.90		1.28	0	14	6	13	12	sw.	W. R. Gormly.
Irwin	Westmoreland	1,100	31	72.0	+0.8	90	3†	49	13†	36	3.31	-0.76	0.99	0	16	17	13	1	s.	W. F. Gallagher.
Johnstown	Cambria	1,184	46	75.1	+3.8	96	5	50	13	42	3.39	-1.16	0.66	0	14	10	19	2	sw.	E. C. Lorentz.
Lycipous	Westmoreland	1,420	36	73.4	+2.4	88	3†	51	13	30	2.49	-1.82	0.90	0	7	6	11	14	w.	Westmoreland Water Co.
Mount Lebanon	Allegheny	1,200	2	72.2		87	29	51	23	29	3.13		0.73	0	13	18	12	1	sw.	Fred Hoffman.
New Castle	Lawrence	808	45	74.0	+3.4	93	4†	48	13	37	5.07	+1.86	2.25	0	12	9	21	1	sw.	New Castle Water Co.
Newell	Fayette	800	8																	

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

† On other dates also.

Reference letters, ^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow.

†† Post-Office addresses are as follows: of Beaver Dam, Beaver; of Elk Lick, Salisbury; of Ingram, Crafton, Pittsburgh; of Lycippus, Greensburg; of Neshaminy, Oakford; of Sharon, Farrell; of Shawmont, Manayunk.

Daily Precipitation for August, 1928

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh		.07			1.14	1.72	.98				.01	1.00					.82	1.50				.80	T.	.03	.49	.63	.10	.20		T.	.46	9.9	
Altoona	Juniata	.63		.16							.95							.03	.13			.03		.07	.55								2.5	
Ansonia	W. Br. Susq.																																	
Arendtsville	Lower Susq.	.16			T.				1.75	.15	.91							1.10	.01				1.40			.08	.02	.01				.17	5.7	
Baker's Summit	Juniata	.31				.09												.14	.18				.44			.11						.35	1.5	
Bethlehem	Lehigh	.08		T.	.07	.41	1.65	.13				.09	T.					3.22	.30	T.			.26			.62	.52	.97	.92	.30	.19		9.7	
Bloersville	Lower Susq.			.05	.20	.55		.68			.95	1.00						.85				1.35		.10					.25		.10		6.0	
Carlisle	Lower Susq.	.35			T.	.07			1.12		.88	.37					T.	.74	T.				1.05		T.	T.	.02	T.	.17	T.	.20		4.7	
Catawissa	N. Br. Susq.	.43		.10		1.22	T.		.10		.01	.16						.01	.36				.25	.07		.62	.16		.08		.22		3.7	
Center Hall	Susquehanna					.24	.63		.42									.10	.04				.30		.10	.42					.64		2.8	
Chambersburg	Potomac	.29			.04			.01	.22			.03	.01				.05	.35	T.				1.28			.09			.01		.01	.02	2.4	
Clearfield	W. Br. Susq.	1.31				.52			.50		.04	.04				.10						.40	.05		.17					.46		3.5		
Coatesville	Lower Del.	.12				.16				.20	.31	1.15						5.28	.02				.41			.32	.13		.14	.21	.14		8.5	
Colebrook	Lower Susq.	.09			.28		1.26	.10			.18	.10	.02					1.67					.81		T.	.02	.12	.08	T.		.26		4.9	
Conshohocken	Schuylkill	.12				.42	.31	.18			.08	.06	1.12					3.10					.35			1.31	.09	.65		T.	.83		8.6	
Cresson	Juniata	.70		.12				.10			.30								.40				.24		.88						.08		2.8	
Doylestown	Lower Del.	.13		.12		1.84	.20				.20	.19						1.16	.07				.44			.42	.17	.02			.28		5.2	
Driftwood	W. Br. Susq.	.55				.72	T.			.55		.11					.18		.07			1.81			.21					.12	.67		4.9	
Emporium	do.	.29	T.	T.		T.	1.65		.44	T.	.30	.03				.81	T.	.04				1.35			.33				T.		.87		6.0	
Ephrata	Lower Susq.	.08			.12		.30	.15			.04	.14	.09					1.76	T.				.51	T.		.66	.84	.04	T.		.02	T.	4.7	
Forest City	N. Br. Susq.	.34				.70			.11		1.35							.27	.19				.66			.16	.49	.43	T.	T.		.58	5.2	
Freeland	Lehigh	.05	.46			.10	1.12	.01	.01			.11						.40	.18	.28			.70		.01	.44	.31	T.	.25	.13		.19	4.7	
George School	Lower Del.	.10			.05	T.	.51	.03				.52	.53					1.33	.49				.17			.47	.20	.01			.13		4.5	
Gettysburg	Potomac	.13			.23		.05	1.71	.02	.22		.04	.11					1.07	T.				2.07	.06		.06					.14		5.8	
Girardville	Lower Susq.	.30		.30	.05	.52	.37	.04		.22	.08	.11					.06	1.07	T.				.18	.24		.02	.09	.06		.48		.14	.04	3.7
Gordon	Lower Susq.	.65				T.	.64	.48			.20	.80						.32					.68			.08	.04		.40	.17	.29	.20	4.9	
Gouldsboro	Lehigh		.28				.43	.08			*	*	*					.80	.35				.24	.20		.18	.60	.40	.06		.04	.08	3.7	
Graterford	Schuylkill	.16					.82				*	*	*					2.06					.21				1.93				.11		5.2	
Great Bend	Lower Br. Susq.	.06					1.26	1.03				.28											.92						.11		.26		3.9	
Hamburg	Schuylkill	.09			.67		.72	.09				.86						.16					.50							.10	1.10	.18		4.4
Hanover	Lower Susq.	.08	.20		.03	T.	.45	.09		.01		.37	.61				T.	1.76					1.18		T.	.01	.03	.02			.01		4.8	
Harrisburg	do.	.14			1.08	.02	.90	T.	.01		.01	.05	.02				.16	.19					.66	.24		T.		.01		.03	T.	.12	T.	3.6
Harrisburg East	do.	.07	.10			1.12	.89	.06		.03	.01	.04	.05					.41					.89		T.		.04		.03		.09		3.8	
Harrisburg North	do.	.19				.53	.23	.68	.02	.06		.04	.05					.36					1.20						.13	.02	.54		4.0	
Hayley	Upper Del.	.05	.08		.09		1.19	1.54			3.10							.05	1.35				.25	.10	.01	.07	.53	2.00	.21		.25		10.8	
Hollisterville	Upper Del.	.10	.12				.88	1.13			1.41							.67	.15				.30	.04		.05	.31	.10	.09		.01	.31	5.6	
Holtwood	Lower Susq.		.04				.01	T.			3.50	.62	.78					1.75	1.63				.72			T.	.28		.53	.03	.23		10.1	
Huntingdon	Juniata	.36		.02	.19		.01	1.64	.02	.43								.06	.18				.05	.48		.06	.52				.04		4.0	
Hyndman	Potomac	.58	.02				.25				.04						.10	1.10	.10				.02			.67	.07		.01		.19		3.1	
Lakeville	Upper Del.			.15		.30	1.35	1.00			2.86							.77	.80	.02			.21	.02		.20	.33	.45	.32		.29		9.0	
Lancaster	Lower Susq.	.02					1.28			2.32		.27						*					.38								.22		4.4	
Lancaster	Lehigh		.17	T.		*	.74	.43			.19	.05	.05					.62	.29				.60		.01	.13	*	.32	.04	.17		.29	4.1	
Lawrenceville	N. Br. Susq.	.05				1.10		.60				.29							.12				1.20			.08					.10		3.5	
Lebanon	Lower Susq.	.08			.08	1.75	.16	.01			.30	.01	T.				.65	.84	T.				1.14		T.	.19		T.		.01	.56		5.7	
Lewisburg	W. Br. Susq.	.82			.02	.10	.99	.66		.21	.03							.17	.05				.62			.08	.02		.01	.28	.50	.06	4.6	
Lloyd	do.																																	
Lock Haven	do.	1.01					.24	.04			.10							.01	.01				1.35			.76					.62	.33	4.4	
Lykens	Susquehanna	.47			.57	.86	.24	.04		T.	.09	.05						.09	.30				.62		T.	.07	.09	T.	.70		.61	.09	4.8	
Mauch Chunk	Lehigh	.19			.11		1.19				.04	.25						2.06					.44			.23	.63		.10		.38		5.6	
Mifflintown	Juniata	.36			.48			.03	.51	.13	.03							.10					.87			.39	.02				.16	.16	3.2	
Montrose	N. Br. Susq.	.35				1.85	.93	1.85	.15		.11								.26				1.30	.04		.42	.68	.63	.05		.29	.18	9.0	
Morris Run	N. Br. Susq.	.26					.31	.45	1.00	.03	.55							T.	.58				1.65			.08								

Daily Precipitation for August, 1928—Continued from page 38

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.....	.51					.35												.01				1.47		.01	.01					.12	2.48	
Beaver Falls|||	Beaver.....	.36					.70				.04	.03										.26		.08	.06					*	.34	1.32	
Bradford.....	Allegheny.....	.10									T.	.20							T.				.36									1.70	
Brookville.....	do.....			T.		.50					1.05					.15	T.					1.50										4.35	
Butler.....	Ohio.....	.57	.04			.34			.47	T.						.31		T.				.95					.50					2.68	
Claysville.....	do.....			.01		.24			.01			.95				.31	.03	.06	.02			.02	.96		.15	.15					.40	.68	2.88
Cloeff.....	Allegheny.....	1.08			T.	.16			.09		.60					.56	1.03		.22			.60		.30						.04	.51	3.60	
Clymer||	Conemaugh.....	2.13		.22		.75			1.		.74					.56	1.03		.08			.12	.08	.03				.22	.29	.05	.07	6.37	
Confluence|||	Youghiogheny.....	1.04				.24	.03									.05	.20					.44		.56				.05				.40	3.01
Coraopolis|||	Ohio.....	.54	T.			.19				T.		.10		T.	T.			.03	.06				.57	.05	.08	T.						.55	2.17
Corry.....	Allegheny.....	.19		.08		.50	.09			.24	.48							.03	.30			.20		.26				.04	.12				2.53
Coudersport.....	do.....					.52				.60	.17										.56		.16							.13			2.14
Creekside.....	Allegheny.....	1.81		.14	.08		.36		.54	.10	.74					.69	.01	.05	.01				.13	.11						.17	.25	5.19	
Derry.....	Conemaugh.....	1.81		.04	.11		T.									.92		.55				.07	.30	.31	.76					.05	.51	5.43	
Donora|||	Monongahela.....	.31	T.			.13	T.	.01	.32									.17	.09				.27		.88			T.			.59	2.77	
Ebensburg.....	Conemaugh.....	.51		.45	.10		.05	.02			.68							.05	.32				.20		.85						T.	.07	3.30
Elk Lick.....	Youghiogheny.....					.60											.30		.12				.31	.07	1.02		.16				.50	3.08	
Falls Creek.....	Allegheny.....	.54				.25				.28	.34					.04						.86		.40						.60	.98	4.29	
Franklin|||	Allegheny.....	.08		.07			1.30	.05			.80	1.30					.34	.09	.02				.81	.03						.05		.09	5.03
Freeport|||	do.....						.32	.48									.24	.43	.07				.98	T.		.56	.03	.03		T.	.85	5.06	
Greensboro.....	Monongahela.....	1.05	.02				.09	.70	.41							.54	.05	.07	.25				.04	.20	.59	.84				.08	.40	5.25	
Greensburg.....	Youghiogheny.....	.89		.06	.04		.83	.30	T.	.25	T.	1.14								T.		.07	.24	.36						.39		3.62	
Greenville.....	Beaver.....	.04																										.06		.70		3.92	
Grove City.....	Beaver.....	.32	.11	.28		.15	.48	T.	T.			.13									1.48				.21								
Herrs Isl. Dam|||	Ohio.....	.69	.62	.02			.15			.30		.11					T.	.06		T.			.48			.06			T.		.30	2.79	
Ingram.....	Ohio.....	1.28	.03			.19	.04		.05		T.	.12					T.	.06	.20				.06	.24	.10	.03		T.			.41	.09	2.90
Irwin.....	Youghiogheny.....	.99			.03	.01	.19	T.	.13							.02	.28	.30	.11				.04	.38	.14	.25			.02		.10	.32	3.31
Johnstown.....	Conemaugh.....	.38		.40	.15		.08	.07			T.		T.				.01	.06		.57			.40	.10	.66			.23		.02	.26	3.39	
Johnstown.....	Youghiogheny.....	.05	T.			.17		.06	.07		.67	T.				T.	.03	.10	.40				.38		.25	.01		.10			.69		2.97
Kregar|||	Beaver.....	.10		.27		.02	.80					.29							.06	.02			.26		.03	.40				.17	.13	2.55	
Lock No. 4|||	Monongahela.....	.24	.03		.01	.02	.33			.89							T.	.05	.04	.01			.34			.63			T.		.07	3.66	
Lycippus.....	Conemaugh.....	.57		T.	T.		.25	T.								.27		T.	.03				.42		.90					.05	T.	2.49	
Mount Lebanon.....	Ohio.....	.73	.25	.12			.19	.02	.12			.30						.20	.26				.19		.08			T.	T.	.58	.09	3.13	
New Castle|||	Beaver.....	.93			.02		.68	.02			.20	.02											2.25	.20	.07	.02			.01		.65	5.07	
New Castle|||	Monongahela.....	.34				.37	.26	.26								.06	.14					.03						.04		.38	.55	2.95	
Newell.....	Monongahela.....	.34				.37	.26	.26								.06	.14					.03								.05	.20	6.52	
Parkers Landing|||	Allegheny.....	.56	T.			1.00	.57			.18		1.84					T.	.03	.10														
Pennline|||	Beaver.....	.10		.11		.24	.36				.55							.16	.02				.37			.55						2.46	
Pittsburgh***	Ohio.....	1.45	.01	T.		.20			.13		.10	.07					T.	.08	.19				.46		.08			T.			.33	3.10	
Ridgway.....	Allegheny.....	.13				.37		.12	.08		.45												1.03										3.89
Saegertown.....	Allegheny.....																																
Saltsburg|||	Conemaugh.....	.66	.02			.11	.28			.49		.03				.04	.05	.10	.03				.62		.01	.25				.21		2.90	
Sharon||	Beaver.....	.25	4.00				.57	T.			.60	.26											1.07							.76		7.51	
Somerset.....	Youghiogheny.....	.95				.40	.05			.04							.05		.40				.05	.41	1.40	.15					.35	4.25	
Springdale|||	Allegheny.....	1.10	.06			.29			.04		.04					.18	.54	.08	.02				.11	.24	.23	.49		.05		.18	.85	4.49	
Uniontown.....	Monongahela.....	.78				.40	.18				.16					.70		.14	.24				.05	.24	.38	.81				.10	.33	4.55	
Unity Reservoir||	Youghiogheny.....	.78		.15		.26	.43	.19								.04		.03					.33		.03		.04			.65		3.30	
Vandergrift.....	Conemaugh.....	1.50				.23	.02	.32		.11						.04		.12					.20	.15		.09				.15	.16	3.82	
Warren.....	Allegheny.....	.13		.16		.76	.25		.10	1.55																							
Washington||	Ohio.....																			.04				.52								1.97	
Westford|||	Beaver.....	.10		.27		.23	.44	.37																									
West Newton|||	Youghiogheny.....																																
Zelienople|||	Ohio.....	.35					.86			.15		.27							.02					.30		.04	.35				T.	.15	2.49
Lake Drainage.																																	
Erie***	Lake Erie.....	.01	T.	.01	.94	.42	T.		T.		1.55	T.							T.	.07			.30			.37			.01	.21	3.89		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloesville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for August, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	80	91	94	95	94	83	76	89	91	90	78	73	82	75	90	89	72	85	83	81	81	69	78	83	78	82	80	86	91	92	79	83.4	
	Minimum	66	70	73	70	68	64	65	66	70	70	61	52	56	58	62	63	65	66	66	58	60	58	61	62	67	71	70	70	70	68	64	64.2	
Altoona.....	Maximum	80	87	89	88	89	86	83	87	90	88	78	70	78	82	87	81	75	80	79	81	83	74	74	73	71	80	81	87	88	86	71	81.5	
	Minimum	62	67	68	68	69	67	68	63	63	64	62	56	48	50	62	64	60	65	60	51	53	61	58	65	63	63	60	67	68	66	58	61.9	
Beaver Dam.....	Maximum	86	88	91	91	91	88	90	90	92	93	83	77	80	87	91	89	84	84	80	87	87	81	84	82	76	84	89	91	91	91	74	86.2	
	Minimum	66	66	69	71	71	68	68	67	63	64	63	56	53	54	65	66	67	69	60	54	60	57	55	64	57	59	61	67	69	71	61	63.3	
Bradford.....	Maximum	83	88	92	93	94	85	87	91	91	91	75	74	83	89	93	92	85	82	80	86	86	81	82	78	79	86	85	92	91	88	76	85.7	
	Minimum	59	67	67	70	66	66	68	58	57	58	59	50	41	47	50	64	62	61	54	44	49	56	55	64	57	56	51	67	67	62	49	58.3	
Brookville.....	Maximum	85	88	93	90	87	87	87	90	91	90	79	70	81	87	90	88	80	83	78	84	87	81	84	87	81	84	84	76	88	88	72	84.6 ^a	
	Minimum	64	64	63	65	68	65	59	56	55	59	51	48	44	43	55	63	60	57	49	43	48	50	50	50	50	50	65	62	59	41	55.6 ^b		
Butler.....	Maximum	82	95	89	90	90	91	88	88	92	89	89	89	83	88	91	89	84	83	82	85	87	85	82	82	82	84	84	76	88	88	72	84.6 ^c	
	Minimum	66	65	73	74	72	68	64	63	60	63	65	64	62	61	78	81	70	76	60	62	67	63	55	50	63	63	67	67	63	64	67	64.0	
Carlisle.....	Maximum	83	92	94	93	94	92	91	90	93	92	88	70	85	89	88	84	82	84	83	86	85	84	84	83	77	84	88	90	93	92	85	87.0	
	Minimum	60	63	65	71	70	67	73	72	70	72	65	61	51	51	55	60	62	67	63	62	65	57	54	50	61	53	58	64	72	67	67	64.0	
Catawissa.....	Maximum	84	93	94	97	97	89	81	94	94	94	88	76	83	92	94	94	72	80	86	86	84	84	87	80	71	80	88	88	93	94	83	87.1	
	Minimum	51	64	66	69	65	66	67	64	66	66	66	58	49	52	56	64	62	65	57	54	50	61	53	58	64	65	70	67	66	60	61.4		
Chambersburg.....	Maximum	79	85	91	90	91	89	82	87	92	89	79	73	80	85	85	80	77	82	82	80	82	77	74	76	75	80	82	88	90	90	82	83.0	
	Minimum	62	62	66	69	69	69	70	69	63	63	68	61	53	50	58	63	62	67	59	53	52	62	62	62	62	62	66	67	63	70	65	70	68.4
Claysville.....	Maximum	84	93	93	91	94	90	90	90	97	92	85	86	89	95	91	85	86	86	86	90	90	85	89	86	78	90	91	94	96	89	75	88.9	
	Minimum	67	66	68	71	68	67	63	66	62	63	64	54	48	52	67	64	64	67	58	50	61	61	48	63	56	56	61	67	70	72	63	62.3	
Clearfield.....	Maximum	85	92	93	94	92	90	90	93	93	91	83	75	82	90	93	92	93	91	89	91	92	90	89	89	88	90	88	90	92	89	74	89.1	
	Minimum	64	65	65	68	65	67	66	60	62	63	60	53	48	60	73	75	64	48	59	48	50	61	57	62	64	62	56	66	67	63	59	61.3	
Coatesville.....	Maximum	83	91	93	94	94	87	83	89	91	91	80	76	80	86	86	83	77	82	81	81	81	76	78	85	87	84	81	88	91	91	77	84.7	
	Minimum	63	66	70	73	74	70	67	71	68	70	71	57	55	54	56	63	65	69	67	58	62	65	61	66	72	73	72	72	71	74	68	66.5	
Corry.....	Maximum	79	85	89	86	85	78	82	86	89	88	78	74	82	88	92	87	84	77	84	85	82	82	75	73	84	82	92	88	85	78	83.6		
	Minimum	63	64	68	70	66	68	62	60	62	60	60	53	40	52	52	78	63	55	52	62	62	60	68	51	51	52	72	62	62	54	60	64.0	
Emporium.....	Maximum	80	85	87	88	86	82	83	83	85	85	78	69	77	81	86	85	73	80	76	78	83	74	72	77	72	70	81	86	85	84	70	80.0	
	Minimum	63	68	67	68	69	68	68	62	61	64	60	53	47	50	55	67	63	65	59	49	53	62	57	60	63	63	56	66	64	52	60	60.9	
Erie.....	Maximum	80	86	91	89	83	77	82	85	83	84	70	74	80	89	86	77	76	78	83	84	72	83	74	70	73	84	89	77	79	67	79.8		
	Minimum	66	72	73	67	70	68	66	70	71	60	59	54	53	62	69	70	67	68	64	60	66	61	60	64	61	58	64	47	69	67	59	64.9	
Franklin.....	Maximum	87	88	91	90	91	84	88	89	89	89	77	77	80	88	90	85	82	77	81	84	84	81	79	76	78	86	85	88	89	83	70	84.1	
	Minimum	58	58	64	56	64	68	62	61	62	64	62	52	49	52	56	65	63	65	58	52	54	54	53	55	60	62	67	62	58	58	58.9		
Freeland.....	Maximum	78	86	88	89	90	83	79	84	86	88	81	70	75	82	85	86	75	79	75	73	75	71	73	77	70	73	81	84	85	86	72	80.0	
	Minimum	60	65	67	69	68	64	59	64	64	63	54	50	58	61	64	58	62	59	50	54	59	51	58	59	62	62	66	67	66	56	60.7		
Gettysburg.....	Maximum	81	91	93	92	93	91	85	86	91	90	81	74	81	86	86	82	77	83	82	80	82	78	76	77	76	81	84	90	92	90	84	84.4	
	Minimum	63	64	69	72	71	69	70	69	67	68	70	60	70	54	59	67	62	63	68	54	62	60	62	67	67	67	67	67	67	70	69	72	65.8
Greensburg.....	Maximum	82	88	90	89	90	87	83	87	90	86	80	75	83	90	91	77	80	79	80	84	85	82	86	81	76	81	90	89	91	87	73	84.3	
	Minimum	67	65	69	71	68	67	70	66	62	65	64	56	51	55	65	65	64	67	59	52	58	62	54	64	62	69	69	69	68	64	63.2		
Grove City.....	Maximum	81	83	88	87	88	81	82	84	88	86	81	70	75	83	88	84	83	78	76	81	83	84	81	75	73	79	82	88	85	85	71	81.7	
	Minimum	64	63	68	70	68	68	64	64	62	64	61	53	50	53	65	66	63	57	55	52	61	55	53	64	56	60	77	63	64	53	61.0		
Hamburg.....	Maximum	94	92	92	94	93	89	84	88	91	89	85	74	83	86	87	87	86	84	82	85	83	78	77	82	81	83	85	86	90	89	80	85.5	
	Minimum	51	62	65	68	69	69	65	69	68	66	64	62	53	54	55	62	61	67	54	56	49	54	45	56	60	59	60	71	66	68	67	61.1	
Harrisburg.....	Maximum	82	89	93	93	91	87	78	89	92	88	81	71	81	84	86	83	76	81	81	81	80	74	78	74	80	83	87	92	90	79	83.4		
	Minimum	65	68	71	72	72	70	67	77	71	70	67	61	59	58	61	66	64	67	66	62	60	64	59	66	70	68	69	73	71	72	64	66.5	
Hawley.....	Maximum	80	90	91	93	92	84	76	89	87	89	81	75	82	87	91	92	84	84	80	82	79	74	68	77	76	72	72	86	89	87	80	82.9	
	Minimum	60	61	61	66	66	67	60	63	60	63	62	56	47	49	53	56	58	65	61	47	50	60	55	61	66	66	66	67	66	69	59	60.1	
Huntingdon.....	Maximum	84	91	94	93	95	91	84	89	92	90	82	73	81	86	88	86	78	83	82	82	85	80	74	77	75	84	84	91	92	91	78	85.0	
	Minimum	48	62	66	69	67	69	69	67	66	63	65	55	51	50	56	56	63	65	57	52	51	62	61	63	64	66	62	66	65	64	61.4		
Johnstown.....	Maximum	82	90	95	90	96	90	86	89	95	90	80	71	88	93	94	82	78	83	83	88	88	82	84	80	75	86	88	92	93	90	81	86.5	
	Minimum	68	64	69	70	69	70	71	67	64	66	64	59	50	51	63	66	65	66	59	5													



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1928

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. SEPTEMBER, 1928. No. 9

GENERAL SUMMARY.

There was much chilly and disagreeable weather in contrast with the pleasant conditions that usually prevail during September. Frosts or freezing temperatures covered more than one-half of the State, and damaged or killed tender vegetation. Hardy plants survived and continued to grow, and at the end of the month large quantities of late truck crops were still available. A heavy wind storm with more or less rain, the remains of a destructive tropical storm, wrought heavy damage to the tomato crop on the 19th, and in some places there were few if any tomatoes left on the vines. This storm also beat down a large amount of corn although it did not destroy much of the grain. It tore up many large trees, and caused a considerable loss in apple orchards. A local thunder and wind storm crossed Lancaster County on the 13th and did considerable damage. Many buildings were unroofed, and a few were wrecked. During the fourth week snow flurries were observed at many places in the northern counties and in the mountain districts. Field work made fair progress during the month. Wheat seeding was in full swing during the last ten days, and was well advanced in the southern counties at the close of the month. Silo filling and potato digging were also among the chief field operations, and much corn was cut and shocked. The corn crop was generally reported as fair, and the potato crop was unusually good. Orchard fruits were much better than last year, but were still far below the average in yields although the quality was generally good. Pastures held up well to the close of the month and furnished ample feed, but there were numerous reports of rain needed near the end of the month.

TEMPERATURE.

The mean temperature for the State, as shown by reports from 84 stations, was 60.4°, a deficiency of 3.6° as compared with the September normal. The highest monthly mean was 65.6°, at Philadelphia-Germantown, and the lowest 54.6°, at Gouldsboro and Ridgway. Extremes for the month ranged from a maximum of 94°, at Lykens on the 14th, to a minimum of 25°, at Gouldsboro on the 25th. The greatest daily range of temperature was 48°, at Ridgway on the 2d.

PRECIPITATION.

The average precipitation for the State, as determined by reports from 135 well-distributed stations, was 2.33 inches, which is 1.15 inches less than the monthly normal. The greatest monthly amount was 5.73 inches, at Gettysburg, while the lowest, 0.71 inch was reported from Beaver Falls. The greatest amount recorded in any 24 consecutive hours was 1.72 inches, at Snow Hill on the 2-3d. Traces of snow fell at several stations, the earliest reported occurring on the 17th at Mount Pocono.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour			
				8 a m.	12 noon.	8 p. m.		Average	•Highest	Direction	Date
Erie.....	237.8	374.3	64	78	72	75	8,610	12.0	36	n.	19
Harrisburg.....	193.7	373.5	52	82	61	72	3,624	5.0	19	ne.	19
Philadelphia.....	203.6	373.5	55	77	60	69	6,973	9.7	48	ne.	19
Pittsburgh.....	197.2	374.0	53	80	56	60	6,351	8.8	31	nw.	25
Reading.....	180.8	373.5	48	75	56	73	3,569	5.0	24	ne.	19
Scranton.....	188.3	374.0	50	83	59	73	4,174	5.8	27	ne.	19

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....	.....
1890.....	62.2	91	25	4.57	8.54	2.05	10	9	11	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5	.....
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9	8
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5	6
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9	10
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9	10
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7	6
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10	11
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5	6
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7	9
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6	7
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6	7
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12	14
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4	3
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9	10
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8	10
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11	12
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10	8
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5	8
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5	6
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5	6
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6	8
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6	9
1921.....	68.9	98	31	4.68	11.48	1.47	13	8	6	11
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4	4
1923.....	64.8	92	22	3.55	8.68	1.54	13	10	7	10
1924.....	59.8	99	26	6.44	11.72	3.46	11	7	12	11
1925.....	67.5	99	24	2.80	7.63	0.86	11	12	7	8
1926.....	64.2	99	25	5.86	13.90	2.23	11	7	12	12
1927.....	64.9	97	27	2.08	7.00	0.20	18	7	6	6
1928.....	60.4	94	25	2.33	5.73	0.71	12	9	9	9

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date		Lowest stage	Date		Flood stage
Port Jervis.....	Delaware.....	3.0	4.8	4	2.5	13	18		
Phillipsburg.....	Delaware.....	3.4	6.0	4	2.0	28	12		
Mauch Chunk.....	Lehigh.....	2.8	2.3	1	3.2	17	12		
Wilkes-Barre.....	Susquehanna.....	2.6	3.7	1	2.1	18	20		
Williamsport.....	Susquehanna.....	0.6	1.3	3	0.3	16	20		
Harrisburg.....	Susquehanna.....	3.5	3.8	1	3.3	20	17		
Greensboro.....	Allegheny.....	10.8	12.6	1	10.2	17	22		
West Newton.....	Youghiogheny.....	0.7	1.1	21	0.4	11	20		
Lock No. 4.....	Monongahela.....	13.3	15.6	1	12.6	18	31		
Pittsburgh.....	Ohio.....	10.1	11.0	1	9.7	19	25		
Beaver Dam.....	Ohio.....	7.4	7.7	2	7.0	19	30		

Climatological Data for September, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	16	61.2	.....	88	13	36	26 [†]	30	2.22	-1.13	0.89	0	9	12	11	7	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	41	58.6	-4.1	87	12	33	27	32	1.78	-1.00	0.50	0	9	16	8	6	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	4	60.8 ^a	.....	88 ^a	13	33 ^a	27	33 ^a	3.85	.....	1.00	0	12	15	6	9	nw.	Dr. S. W. Frost.
Bethlehem.....	Northampton.....	364	44	64.1	-2.1	87	12 [†]	38	27	26	2.21	-1.18	0.61	0	10	13	9	8	sw.	Lehigh University.
Carlisle.....	Cumberland.....	467	61	62.7	-2.0	89	12	34	25	35	3.81	+0.19	0.97	0	9	18	2	10	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	31	60.6	-2.9	83	12	31	25	25	2.12	-1.28	0.93	0	9	18	5	7	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	32	56.8	-5.2	88	11	31	25	43	1.13	-1.86	0.43	0	6	19	6	5	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	28	61.0	-4.9	86	13 [†]	32	27	35	3.04	+0.30	0.71	0	9	9	12	9	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	18	59.8 ^a	-3.4	90 ^a	10	30 ^a	20 [†]	40 [†]	0.96	-2.82	0.30	0	7	15	9	6	w.	E. W. Hess.
Coatesville.....	Chester.....	380	40	62.2	-3.9	88	13	32	27	30	4.80	+0.90	1.37	0	10	7	15	8	ne.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	18	60.3	-3.8	80	13	33	25	32	3.35	-0.18	0.84	T.	12	16	3	11	sw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	40	57.4	-4.0	82	10	32	25 [†]	30	1.76	-1.68	0.78	T.	6	17	8	5	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	27	61.8	-3.7	87	13	35	25	33	3.37	-0.11	0.81	0	12	8	11	11	s.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	13	56.4	.....	82	13	31	26	24	2.31	.....	0.83	0	12	8	9	13	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	21	64.0	-0.9	87	13	35	27	33	4.07	+1.05	1.34	0	9	14	6	10	n.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	54	62.6	-2.4	87	12	35	27	33	5.73	+2.36	1.32	0	14	14	6	10	sw.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	24	59.1	-2.7	86	12	29	25	37	2.84	-1.62	1.20	0	11	11	8	11	w.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	4	54.6	.....	83	12	25	25	40	2.89	-0.43	0.90	0	10	16	4	10	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	35	60.9	-4.6	85	12	32	26	35	2.70	-1.50	1.28	0	9	14	9	7	w.	State Sanatorium.
Hanover.....	York.....	600	24	63.8	-3.4	88	13	37	27	33	3.91	+1.06	0.82	0	12	16	3	11	s.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	58	62.4	-3.4	86	16	40	27	30	2.86	+0.01	1.02	0	11	7	12	11	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	9	57.8	.....	86	12	27	25	36	1.98	.....	1.00	0	12	13	11	6	nw.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	13	65.0	.....	86	14	43	26 [†]	25	3.25	+0.88	0.77	0	10	11	7	12	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	40	60.8	-3.5	91	12	30	25 [†]	38	1.61	-1.81	0.45	0	9	13	6	11	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	17	61.4	-3.1	91	14	31	27	43	2.43	-0.73	0.91	0	9	7	9	14	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	40	62.0	-2.5	90	13	33	25 [†]	41	4.06	+0.72	0.90	0	10	18	4	10	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	30	59.1	-2.2	89	12	30	25	33	1.19	-1.84	0.34	0	6	16	3	11	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	87	61.8	-3.4	88	13	36	25 [†]	34	2.66	-0.52	0.73	0	12	12	6	11	sw.	C. B. Benzing.
Lewisburg.....	Union.....	450	53	61.6	-0.4	90	12	34	25	34	2.45	-1.08	0.85	0	10	9	10	11	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	38	62.2	-2.5	89	12	34	25	36	1.77	-1.73	0.58	0	8	10	12	8	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	13	61.7	-2.5	94	14	30	25	39	2.49	-2.14	0.93	0	10	14	8	8	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	37	61.6	-2.4	89	13	30	27	43	3.02	-0.85	1.43	0	10	13	7	10	sw.	R. K. Wintermute.
Midlinton.....	Juniata.....	445	24	60.6	-3.2	88	16	31	27	39	2.23	-1.56	0.62	0	9	11	7	12	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	25	57.0	-3.1	82	12	31	25	36	2.49	-1.43	0.50	0	8	13	8	9	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	24	55.4	-2.7	78	11 [†]	31	27	27	4.35	-0.54	1.30	T.	12	7	11	12	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	16	58.4	-3.0	85	12	28	25	39	1.92	-1.56	0.51	0	8	17	8	5	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	9	.....	.....	88 ^k	13	38 ^k	25 [†]	25 ^k	.....	.....	1.49	0	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	39	.....	.....	86	13 [†]	34	25 [†]	35	2.59	.....	1.04	0	8	6	17	7	sw.	North Springfield Water Co.
Palmerton.....	Carbon.....	308	11	60.6	.....	86	13	41	27	32	3.61	+0.47	1.30	0	9	6	11	13	sw.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	57	65.4	-2.6	86	13	43	26 [†]	25	3.19	.....	1.21	0	6	9	11	10	.....	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	4	65.6	.....	87	13	43	25	36	3.56	+0.49	1.45	0	10	12	7	11	e.	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	12	65.2	-2.8	89	13	43	25	36	3.19	.....	1.21	0	8	12	1	17	w.	Commandant, Navy Yard.
Phila. Point Breeze.....	Philadelphia.....	90	3	65.2	.....	88	13	42	26 [†]	27	3.63	.....	1.31	0	7	18	8	4	s.	Atlantic Refining Co.
Phoenixville.....	Chester.....	100	17	64.6	-1.8	90	13	37	27	40	4.62	+1.54	1.16	0	7	18	8	4	s.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	43	61.9	-1.7	87	13	32	27	33	2.81	-0.85	0.66	0	9	11	8	11	nw.	John E. Benner.
Reading.....	Berks.....	325	58	63.2	-3.1	88	12	41	26	30	3.19	-0.46	1.05	0	11	9	9	12	sw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	33	60.0	-2.9	86	12	34	25	31	1.82	-1.04	0.86	0	14	5	11	14	s.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	38	61.4	-3.0	87	12	35	25	36	1.34	-2.32	0.56	0	6	14	2	14	sw.	Dr. George E. Fisher.
Shawmont.....	Philadelphia.....	51	32	64.6	.....	86	13	38	27	27	3.63	+0.40	1.20	0	9	6	13	11	w.	W. S. Guiles.
State College.....	Center.....	1,217	43	58.9	-3.5	86	12	36	25 [†]	32	1.52	+0.38	1.39	0	10	16	7	7	nw.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	12	59.4	-2.9	87	13	31	25 [†]	38	3.33	+0.88	1.39	0	10	16	5	11	s.	State Normal School.
Towanda.....	Bradford.....	754	33	58.8	-3.2	86	12	30	25	34	1.03	-2.00	0.32	0	7	14	5	11	s.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	62	56.2	-3.5	84	10	29	25	40	1.75	-0.46	0.63	0	8	19	6	5	sw.	George W. Hill.
West Chester.....	Chester.....	455	90	62.4	-2.9	86	13	36	27	28	4.83	+0.91	1.07	0	9	8	12	10	sw.	Joseph W. Belt.
Williamsport.....	Lycoming.....	521	41	61.5	-2.4	88	12	33	27	33	2.64	-0.57	1.22	0	9	8	12	10	sw.	Miss Veronica E. April.
York.....	York.....	400	40	62.6	-3.0	89	13	35	25 [†]	36	4.55	+1.22	0.79	0	11	15	6	9	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	35	61.6	-4.6	89	15	34	26	35	0.84	-1.75	0.56	0	6	5	12	13	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,460	13	58.6	.....	88	10 [†]	30	25	39	1.92	.....	0.44	T.	13	16	0	14	nw.	Bradford Electric Co.
Brookville.....	Jefferson.....	1,173	37	55.9 ^a	-3.8	88 ^a	15	28 ^a	24	43 ^a	2.37	-0.95	1.10	0	6	19	5	6	.....	John Fawcett.
Butler.....	Butler.....	1,152	3	61.6	.....	89	8 [†]	33	26 [†]	42	0.73	.....	0.38	0	4	17	8	5	w.	William C. Faust.
Claysville.....	Washington.....	1,150	21</																	

Daily Precipitation for September, 1928

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh			.50	.39		.02	.43	T.					T.						.28	.25	T.						.07		.03	T.	.25	2.22	
Altoona	Juniata			.09			.10	.04										.02		.35	.50				.03	.17					.48		1.78	
Ansonia	W. Br. Susq.			.05	.02	.01		.01									.12			.23		.84	.02				T.	.08				.15	1.58	
Arendtsville	Lower Susq.			.60		.25		.44	.01					.01					.01	.30	1.00	.04					.14				.06	.99	3.85	
Baker's Summit	Juniata			.15			.09								.45					.62	.24	.03						.05				.84	2.47	
Bethlehem	Lehigh			.61			.40	.08						T.						.43	.42	T.					.01	.01		.01	.07	.17	2.21	
Blosserville	Lower Susq.			.65			.36	T.						.30						.95	.25						.05				1.10		3.76	
Carlisle	Lower Susq.			.97			.40	.16						.41						.48	.35						.20	T.			.24	.60	3.81	
Catawissa	N. Br. Susq.		.02	.93			.23							.18						.15	.11	T.					.05		T.		.15	.30	2.13	
Center Hall	Susquehanna			.12			.10	.32											.02	.14	.43												1.13	
Chambersburg	Potomac			.71			.58	.04									T.			.55	.32						.03	.09			.14	.58	3.04	
Clearfield	W. Br. Susq.			.15			.05	.25									T.			.22		T.				.05	.22				.02		0.96	
Coatesville	Lower Del.			.63			.92	.09						.48						.60	.44						.07	.20			1.25	.12	4.80	
Colebrook	Lower Susq.			.84	.10		.63	.05						.16						.29	.24	.02					.20	.03		T.	.63	.16	3.35	
Conshohocken	Schuylkill			.53			1.03	.04											.70											1.02	.29		4.15	
Cresson	Juniata			.04			.10							.08		.07				.90	.40					.06					.30	.20	2.15	
Doylstown	Lower Del.			.87			.77	.05					T.							T.	1.31	.11				T.	.22		.01	.30	.42		4.06	
Driftwood	W. Br. Susq.								T.								.65		.08			.22	.12			T.		.18		.12			1.37	
Emporium	do.			T.			.10						T.				.78		.38		.15	.30	.05				T.				T.		1.76	
Ephrata	Lower Susq.			.81	.28	T.	.74	.07	T.					.19						.30	.19	.01					.02	.15		T.	.49	.12	3.37	
Forest City	N. Br. Susq.			1.01		T.	.02	T.							.07					.30	.07	.25	.09					.31				.16	2.28	
Freeland	Lehigh			.78	.05		T.	.21	.04						.02		.04			T.	.12	.40	.08					.14		.04		.39	2.31	
George School	Lower Del.			.35			1.27	.09					T.	T.	.04					.76	.58						.33				.15	.50	4.07	
Gettysburg	Potomac			1.32	1.13		.76	.10	.01					.02						.55	.66	.05					.02	.16			.34	.60	5.73	
Girardville	Lower Susq.			1.38			.21	.05						.38					.06	.27	.21	.02					.18		.05	.03	.30	.22	3.36	
Gordon	Lower Susq.			1.20			.12	.05						.05						.10	.57	.02					.03	.17			.03	.50	2.84	
Gouldsboro	Lehigh			.90			.09							.11					.16	.30	.71							.18		.06	.10	.28	2.89	
Graterford	Schuylkill			.63			.31	.10										.03		.71	.12						.23		.02	.56	.09		3.30	
Hamburg	Schuylkill			1.25			.40	.01						.06		.04				.19	.34						.16				.22		2.70	
Hanover	Lower Susq.			.75	.56		.82	.10	.01					.01						.33	.60	.02					T.	.15			.15	.41	3.91	
Harrisburg	do.		.22	.80	T.	T.	.46	.04	T.					.24		T.	T.		T.	.27	.06						.13	.05			.32	.27	2.86	
Harrisburg East	do.			1.04			.43	.16	.01					.37		T.				.23	.08	.01						.18			.37	.37	3.25	
Harrisburg North	do.			1.12			.10	.41	.01					.13						.08	.32	.04						.23				.74	3.18	
Hawley	Upper Del.			.90	.10			.05	.06								.02		.05	.30	.36	.04						.02		.02		.16	1.98	
Hollisterville	Upper Del.			.80	.06			.03											.03	.29	.35	.05					.11		.09		.36		2.40	
Holtwood	Lower Susq.			.77	.13		.33							.27						.25	.24							.12			.08	.73	3.25	
Huntingdon	Juniata			.29			.06	.05						T.			.07			.41	.22	.01					.05					.45	1.61	
Hyndman	Potomac			.13			.22							.02			.07	.45		.91	.30						*				.38		2.43	
Lakeville	Upper Del.			.83	.11		.05	.04												.35	.32	.10					.10		.11		.25		2.29	
Lancaster	Lower Susq.			.90	.11		.76	.08						.67						.30	.26						.25				.55	.18	4.06	
Lansford	Lehigh			* 1.31			.21	.09						.39	.02					.15	.38	.03						.07	T.		*		2.65	
Lawrenceville	N. Br. Susq.			.12			T.	.15										.34		T.	.30						.18		T.			.10	1.19	
Lebanon	Lower Susq.		.73	.04		.20	.43							.14			T.	T.	.20	.23	.01						.20		.04	*	.44		2.66	
Lewisburg	W. Br. Susq.			.85	.02		.11	.08						.01		.12				.29	.23						T.	.13				.61		2.45
Lloyd	do.						.10													.24	.15	.43						.26				.37		1.77
Lock Haven	do.			.17			.05	.10												.17	.24	.15	.43											1.77
Lykens	Susquehanna			.93			.19	.05						.15						.20	.33						.06	.15			.02	.41	2.49	
Mauch Chunk	Lehigh			1.43			.19	.13						.32						.21	.40						.09	.04			.04	.17	3.02	
Midtown	Juniata			.34			.16	.08						.05						.30	.56							.10	.02			.62		2.23
Montrose	N. Br. Susq.			.50			.50											.50		.15	.11						.03	.20				.50	2.49	
Morris Run	N. Br. Susq.			.24			.04										T.	.28	.15	.38							.06	.10		.04		.06	1.35	
Mount Pocono	Upper Del.			1.30		.20	T.	.13						.70		.18	.06	.08	.08	1.20	.16	T.								.05		.21	4.35	
Muncy Valley	W. Br. Susq.			.51			.17												T.	.17	.13	.20						.34	.03			.37	1.92	
Narberth	Lower Del.			\$		\$	\$							T.	.02					.88	.61						T.	.13			.58	.35	\$	
Neshaminy	Lower Del.						.63	.18																										

Daily Precipitation for September, 1928 - Continued from page 43

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio							.17							.01							.56	.06										0.84
Beaver Falls|||	Beaver				T.		.01														.44	.10	.01	*	T.	.01	.04						0.71
Bradford	Allegheny							.10								.40	.10	.02			.15	.83	.01		*	*	.30	.05	.44	.02			1.92
Brookville	do						.50	T.								.20		.12			1.10	.30				.15							2.37
Butler	Ohio															.25					.38	.08				.02							0.73
Claysville	do			T.			.67							.33		.03					.57	.47	.01	.01					.09	.07			2.25
Cloeff	Allegheny					.13									.09			T.			.16	.46				.16	.04						1.04
Clymer||	Conemaugh		*			.06	.03							T.		.41					.14	.51	.06		T.	.26					.04		1.51
Confluence|||	Youghiogheny		.12			.12										.75				T.	.70	.06				.22					.27		2.24
Corapolis|||	Ohio			.01		.01	.21								T.		.14				.61	.09			T.	.43	.02				.04		1.13
Corry	Allegheny		.26	.01		.33				.04											.25	.18		.08	.19	.43	.25		.10	.30			2.42
Coudersport	do		.13															.55			.30				.04	.11	.21						1.34
Creekside	Allegheny							.09							.38						.73	*				.15				.01			1.36
Derry	Conemaugh		.08				T.					.11		.16							.76	.65				.17				.14			2.07
Donora||	Monongahela			T.		.01	.03					.02	.20			T.					.05	1.25	T.		T.	T.				.02			1.58
Ebensburg	Conemaugh		.05			.12	.02					.08		.10							.50	.30				.05	.18				.62		2.02
Elk Lick	Youghiogheny		.20			.15						.10		.05		.05					.97	.46			*	.15			.33	.02			2.43
Falls Creek	Allegheny							.25							*		.25	.27			.11	.30										1.42	
Franklin|||	Allegheny							.11											.04		.48	.15			.06	.03	.20						1.07
Freeport|||	do			.03		T.	.11									.37					.67	.09				.02							1.29
Greensboro	Monongahela		.03	.16		.02								.14		.18					1.08	.03			T.	.04					.23		1.91
Greensburg	Youghiogheny		.15			.05						.12		T.						T.	.55	.56	T.			.17			.04	.13			1.77
Greenville	Beaver		.02		.33										T.			.28	.14	.35	.51			T.	.02	T.	.07		T.	.04		1.16	
Grove City	Beaver		.01		.13	.04															.88	.11			T.	.09	.04		.06				1.21
Herr's Isl. Dam|||	Ohio			*			.05								*						.74	.06				.05				.03			0.93
Ingram	Ohio		T.			.15	T.							T.		.03					.54	.44	T.			.13			.04	.01			1.31
Irwin	Youghiogheny					.04						.09		.03							.26	.75	.02			.05			.10	.11			1.45
Johnstown	Conemaugh		.17			.13	T.					.10		.01	.06					.02	.65	.08			.27			.08	.46				2.03
Kregar|||	Youghiogheny		.04			.04	.02					.41		.78							.88	.11			T.	.18		.30					2.76
Linesville||	Beaver		T.	.02	.08		.40														.77	.19	.04		.15	.07	.20		.08				2.00
Lock No. 4|||	Monongahela						.01	.01						.23		.05					1.19	.03			T.	.01			.22				1.75
Lycippus	Conemaugh											.62		T.							.65	.57				.05			.30				2.19
Meadville	Allegheny		.02		.40											.20	.48	.50			.20	.48	.50		.16		.32		.10			2.18	
Mount Lebanon	Ohio			.05		.08						.13		.12							.69	.28	.02		.15			.15	.09				1.76
New Castle|||	Beaver		.01	.01				.24	.03									.05			.42	.11	.03		.04				.05	.16			0.94
Newell	Monongahela					.03						.40	.03	.08							.35	.71				.05							1.86
Parkers Landing|||	Allegheny			T.		T.	.25											T.	.15		.33	.20				.05	T.		T.				0.98
Pennline|||	Beaver		.23	.05		.39															.80	.17	.07	.06	.21	.10	.22		.09				2.39
Pittsburgh***	Ohio		T.			.04									T.		.01				.49	.39	T.		T.	.06			.03				1.02
Ridgway	Allegheny		.02		.25	.15									.46		.24				.14	.16			.03	.02		.22					1.69
Saltsburg|||	Conemaugh			.08		.05	.01							.04							.96	.10			T.	.01	.21			.06			1.52
Sharon|||	Beaver					.15												.02			.50	.15	T.					.05					0.87
Somerset	Youghiogheny		.08			.18									.30	.15					.70	.32	.04		T.	.08	.05			.50			2.40
Springdale|||	Allegheny				.01	.05										.02				T.	.71	.57	.12			.14			.08				1.19
Uniontown	Monongahela		.04		.02							.02				.18	.08				.71	.57	T.			.06			.14	.06			1.62
Unity Reservoir||	Youghiogheny		.28		.04							.18		.08							.57	.62	T.			.20			.04	.25			2.26
Vandergrift	Conemaugh			.05		.05						.01		.15							.44	.33				.10							1.08
Vandergrift	Allegheny					.10	.14								.28				.08	.08	.14				.06	.10	.06	.20	.05	.22			1.51
Washington	Ohio																				.84	.10			.10								1.65
Westford|||	Beaver						.20														.66										.30		1.16
West Newton|||	Youghiogheny																				.57	.20		T.									0.78
Zellenople|||	Ohio						.01																										
Lake Drainage.																																	
Erie***	Lake Erie			.16	.73		.22					.06				.02		T.			.18	.35	.02		.93	.06	.60	T.	.10		T.		3.43

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for September, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	71	77	79	75	68	59	61	75	85	81	84	86	88	81	73	83	81	68	65	74	74	70	74	61	58	58	63	60	50	59	71.4	
	Minimum	48	49	50	50	52	53	56	54	56	62	59	60	62	56	58	60	57	52	52	59	55	48	44	39	41	36	42	42	44	36	51.1	
Altoona.....	Maximum	69	72	76	68	68	61	62	72	83	86	83	87	80	83	82	85	82	60	55	58	76	66	63	55	57	48	60	60	52	52	68.7	
	Minimum	44	45	59	50	42	52	52	49	51	60	58	58	61	55	55	56	55	46	47	52	54	47	42	38	34	37	33	40	40	43	48.5	
Beaver Dam.....	Maximum	71	81	81	76	72	71	70	78	86	88	88	87	85	83	89	88	85	65	64	59	77	74	65	59	60	58	63	64	63	63	73.8	
	Minimum	47	47	60	49	44	54	54	51	51	59	57	60	65	55	60	53	54	44	44	54	56	43	46	42	39	34	35	35	44	42	49.8	
Bradford.....	Maximum	72	79	76	65	76	71	66	81	85	88	86	87	85	88	79	82	70	67	65	60	75	72	70	58	59	48	52	56	67	67	71.7	
	Minimum	38	42	56	47	37	45	52	46	64	52	58	62	63	55	49	47	41	37	51	54	39	38	36	30	34	37	36	39	35	35	45.6	
Brookville.....	Maximum	71	79	77	68	73	63	74	84	86	85	85	82	83	88	82	77	64	59	61	74	67	63	53	60	51	59	61	68	56	60	70.8	
	Minimum	37	37	40	37	33	51	46	41	52	49	51	47	46	50	46	40	36	45	54	49	37	36	28	36	30	29	31	34	40	40	41.0	
Butler.....	Maximum	76	86	87	78	75	78	76	89	88	87	89	86	86	84	86	83	85	66	64	58	74	72	68	61	58	58	59	61	68	64	75.0	
	Minimum	44	46	50	56	60	60	55	50	47	55	65	52	57	51	49	39	48	55	55	44	48	39	38	33	33	36	33	35	35	35	48.3	
Carlisle.....	Maximum	74	78	84	78	71	61	62	77	86	87	86	89	87	88	86	87	88	60	62	61	76	73	75	70	55	58	65	65	56	55	74.0	
	Minimum	52	43	63	55	47	56	55	53	57	62	57	66	55	56	64	58	54	52	55	56	53	42	40	34	40	35	41	41	48	41	48	51.4
Catawissa.....	Maximum	79	72	81	76	70	63	67	72	86	87	93	91	84	80	90	85	68	62	66	74	73	71	61	57	55	64	63	56	60	60	72.6	
	Minimum	46	42	65	52	43	52	55	48	52	60	58	65	53	54	64	55	47	50	53	54	48	41	35	31	34	32	38	37	41	41	48.6	
Chambersburg.....	Maximum	72	75	81	78	71	61	63	75	82	85	83	85	86	85	80	86	84	77	60	60	74	71	71	62	55	57	65	65	54	51	71.8	
	Minimum	51	46	62	55	48	55	55	54	47	55	57	54	61	52	55	59	57	55	50	54	53	42	40	34	40	32	39	44	47	47	50.2	
Claysville.....	Maximum	77	84	78	75	74	70	75	81	89	92	87	91	82	86	91	91	80	66	62	58	79	73	69	60	61	63	64	68	63	65	75.1	
	Minimum	42	48	62	43	41	54	52	46	47	55	56	58	65	48	60	51	53	44	47	51	51	39	45	38	31	40	34	30	46	48	47.3	
Clearfield.....	Maximum	72	78	78	79	74	69	66	77	86	90	86	89	84	88	84	88	86	82	71	61	58	64	68	68	63	60	61	62	62	62	74.3	
	Minimum	43	43	55	44	39	51	54	49	46	57	58	50	55	49	50	54	51	42	48	30	39	43	38	39	30	37	30	38	38	38	48	45.2
Coatesville.....	Maximum	72	77	78	74	66	61	66	75	83	82	82	86	88	80	76	83	83	74	63	71	74	70	74	61	58	55	62	60	50	56	71.3	
	Minimum	55	48	66	60	51	53	56	54	58	64	62	69	57	55	66	65	56	54	60	54	50	45	43	34	38	32	43	41	45	45	53.0	
Corry.....	Maximum	71	80	74	65	76	72	71	78	83	87	82	82	82	80	84	88	73	64	67	62	75	70	63	55	59	47	55	51	66	59	70.7	
	Minimum	42	48	52	52	39	43	52	43	50	54	62	64	66	43	43	52	51	34	36	52	54	39	42	37	34	33	34	38	38	38	45.3	
Emporium.....	Maximum	67	72	74	61	68	68	65	72	79	82	81	81	80	78	80	78	76	63	60	71	65	60	54	57	50	56	56	62	55	67	67.7	
	Minimum	43	45	54	46	40	50	55	53	50	58	58	58	57	50	50	57	53	41	45	55	54	43	40	36	32	37	32	38	38	48	47.2	
Erie.....	Maximum	69	79	71	63	69	69	70	74	75	87	85	86	76	75	80	76	67	62	60	62	76	65	59	52	50	52	54	54	64	60	68.0	
	Minimum	55	54	56	55	51	55	57	53	63	65	69	70	63	55	68	62	60	51	48	52	56	51	40	40	39	42	42	45	45	47	58.6	
Franklin.....	Maximum	70	78	77	69	74	67	68	78	85	86	86	85	84	83	87	84	74	68	64	61	75	70	61	52	58	52	59	60	65	55	71.2	
	Minimum	45	45	49	51	40	42	54	48	48	52	56	59	65	50	52	51	58	40	42	49	56	42	44	39	36	34	35	36	38	39	46.3	
Freeland.....	Maximum	66	69	74	68	65	57	63	67	75	74	80	81	82	70	65	76	79	59	55	62	68	63	64	56	50	51	55	52	47	56	65.0	
	Minimum	45	46	56	52	44	50	47	52	51	56	59	60	63	53	50	58	59	46	45	49	52	44	45	36	35	31	33	36	38	41	47.7	
Gettysburg.....	Maximum	73	78	81	78	69	61	61	75	83	85	82	87	86	83	76	86	85	78	61	61	74	70	74	65	56	56	64	64	60	52	72.1	
	Minimum	53	47	64	57	51	54	55	55	50	59	60	60	69	59	57	62	65	56	52	54	56	47	48	38	36	35	43	46	48	48	53.1	
Greensburg.....	Maximum	76	81	72	70	73	63	68	76	83	88	86	85	78	86	88	84	80	62	57	58	76	69	65	54	58	55	61	61	63	56	71.0	
	Minimum	46	48	50	49	43	54	54	47	50	58	59	58	62	53	51	58	55	45	48	53	54	44	46	41	37	36	38	47	45	47	49.5	
Grove City.....	Maximum	68	75	77	70	68	66	64	73	78	85	85	84	81	80	87	81	83	75	68	62	74	71	62	58	57	51	57	57	65	59	70.7	
	Minimum	39	42	55	46	36	47	49	50	49	56	55	67	66	47	61	51	52	45	52	54	42	49	39	40	33	34	36	40	40	40	46.8	
Hamburg.....	Maximum	76	78	76	78	68	64	66	72	80	84	83	85	83	81	80	84	82	78	67	62	72	73	71	70	57	50	60	59	57	56	70.1	
	Minimum	50	43	45	50	47	55	55	50	60	62	64	56	62	61	55	60	62	56	52	53	50	51	42	36	36	32	33	41	39	44	51.7	
Harrisburg.....	Maximum	70	75	81	72	67	60	62	73	84	82	82	85	85	80	74	86	83	64	60	63	74	70	70	59	51	55	63	62	51	56	70.0	
	Minimum	55	50	63	59	53	55	55	56	54	62	64	63	70	63	58	67	62	57	52	56	57	54	50	45	42	40	47	44	48	48	54.8	
Hawley.....	Maximum	69	75	77	74	67	62	62	73	80	78	83	86	83	78	67	82	82	76	61	70	69	66	67	56	57	49	54	55	56	54	68.9	
	Minimum	44	41	55	54	42	49	54	55	44	51	56	55	60	56	47	61	52	48	48	52	55	48	37	33	27	36	30	35	34	44	46.8	
Huntingdon.....	Maximum	70	76	82	73	72	63	65	78	86	87	89	91	84	86	84	87	86	66	57	61	79	70	69	59	59	52	63	62	55	54	72.2	
	Minimum	45	44	61	54	42	55	53	55	48	66	69	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	49.3	
Johnstown.....	Maximum	78	80	79	71	64	65	78	84	91	85	84	81	90	85	90	84	65	56	60	80	70	68	65	59	50	63	64	59	54	72.5		
	Minimum	48	48	48	50	44	53	55	54	49	58	59	60	61	55	55	60	85	79	87	86	65	64	62	76	75	78	71	58	61	67	59.5	
Lancaster.....	Maximum	77	78	83	80	74	63	69	78	8																							

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CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. OCTOBER, 1928. No. 10

GENERAL SUMMARY.

There was much fair weather and bright sunshine during the month. The temperatures were mostly above the normal with no frosts of consequence until near the end of the month. Late corn and truck crops that survived the frosts of late September were therefore enabled to mature without material damage. The shortage in rainfall was more or less unfavorable for pastures in the western portion of the State where the September rains were deficient, while in the eastern counties where the September rains were heavier, the soil generally retained enough moisture to preserve late feed in good condition. The fair weather and mild temperatures were highly favorable for field work which progressed almost without interruption. Wheat seeding and silo filling were finished early in the month at most places. Potato digging continued throughout the month, but was nearly finished at its close. The yields were light or moderate in some counties, but for the State as a whole it was generally estimated to be the largest crop on record. Corn husking and the hauling of fodder were the chief occupations on the farms after the middle of the month. The corn crop was generally satisfactory. Winter apples were mostly gathered during the month. They were of about average quality, but yields were mostly below the normal. Grapes were unusually good, and some large yields were reported. There were no severe or damaging storms during the month. The winds were mostly light or moderate, thunderstorms were few and of moderate intensity, and no excessive rainfalls were reported. Considered from every viewpoint, it was as pleasant and favorable an October as has occurred for several years.

TEMPERATURE.

The mean temperature for the State, as shown by reports from 84 stations, was 55.1°, which is 2.7° above the October normal. The highest temperature recorded during the month was 91°, at Claysville on the 11th, and the lowest was 15°, at Gouldsboro on the 27th and at Elk Lick on the 30th. The greatest daily range of temperature was 56°, at Corry on the 11th.

PRECIPITATION.

The average precipitation (from rain and melted snow) for the State, as determined from reports of 134 stations, was 1.78 inches: a deficiency of 1.40 inches as compared with the monthly normal. The greatest monthly amount was 5.24 inches at Warren and West Newton, while the least, 0.43 inch, was recorded at Hamburg. The greatest amount recorded in any 24 consecutive hours was 2.00 inches, at Clearfield on the 17-18th. Snowfall averaged 0.1 inch, which coincides with the October normal for Pennsylvania. The greatest monthly amount was 1.5 inches at Warren, all of which fell on the 29th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total move- ment, in miles	Velocity, in miles per hour			
				8 a. m.	12 noon.	8 p. m.		Average	*Highest	Direction	Date
Erie.....	173.3	343.1	51	74	62	69	9,526	12.8	36	w.	24
Harrisburg.....	191.2	345.2	55	79	56	68	3,871	5.2	19	sw.	18
Philadelphia.....	263.1	345.2	76	80	61	72	6,448	8.7	29	n.	29
Pittsburgh.....	173.4	344.1	50	80	56	62	6,578	8.8	34	nw.	24
Reading.....	194.1	345.2	56	74	51	70	3,657	4.9	21	nw.	25
Scranton.....	192.6	344.1	56	81	57	71	4,256	5.7	21	nw.	28

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14	10
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17	15
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11	8
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7	6
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9	8
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11	9
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6	5
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12	9
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9	5
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13	12
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10	6
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11	8
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10	9
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11	9
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8	7
1905.....	52.2	90	16	4.23	7.06	2.18	14	7	10	9
1906.....	53.0	87	14	4.46	8.39	1.97	7	7	17	14
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8	6
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11	7
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13	11
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9	6
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15	13
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11	8
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6	6
1917.....	47.2	84	12	6.88	9.80	3.33	10	10	11	13
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8	10
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14	17
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7	8
1922.....	54.8	94	12	2.51	5.60	0.65	18	6	7	7
1923.....	51.0	87	12	2.38	6.01	0.90	15	8	8	8
1924.....	52.9	87	14	0.28	2.30	0.00	21	7	3	2
1925.....	46.1	83	9	4.83	8.90	2.02	6	8	17	15
1926.....	51.9	90	16	4.51	7.98	2.56	10	9	12	14
1927.....	55.6	99	21	6.40	11.91	1.58	17	5	9	9
1928.....	55.1	91	15	1.78	5.24	0.43	14	8	9	8

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.1	2.5	9	1.7	22	18
Phillipsburg.....	Delaware.....	1.3	2.0	1	0.9	17	22
Mauch Chunk.....	Lehigh.....	3.3	3.0	1	3.4	13	12
Wilkes-Barre.....	Susquehanna.....	2.1	2.9	23	1.6	17	20
Williamsport.....	Susquehanna.....	0.4	1.1	21	0.1	15	20
Harrisburg.....	Susquehanna.....	3.4	3.5	25	3.2	15	17
Greensboro.....	Allegheny.....	10.2	10.9	30	9.6	12	22
West Newton.....	Youghiogheny.....	0.4	0.5	1	0.3	11	20
Lock No. 4.....	Monongahela.....	12.7	13.2	31	12.4	16	31
Pittsburgh.....	Ohio.....	10.1	11.0	28	9.6	4	25
Beaver Dam.....	Ohio.....	7.6	8.0	28	7.0	1	30

Climatological Data for October, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, if in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	16	54.4	.....	86	12	27	26	39	0.62	-2.79	0.28	0	5	19	12	0	s.	John A. Frick.
Altoona.....	Blair.....	1,615	41	54.4	+2.5	85	12	24	27	38	1.87	-0.62	0.50	T.	12	17	9	5	w.	Lewis E. Hiller.
Arendtsville.....	Adams.....	700	4	54.0	.....	86	12	23	27	39	2.40	.....	0.99	0	9	23	2	6	n.	Dr. S. W. Frost.
Bethlehem.....	Northampton.....	364	44	58.0	+2.5	87	12	28	27	37	0.45	-2.78	0.21	0	5	15	10	6	sw.	Lehigh University.
Carlisle.....	Cumberland.....	467	61	56.1	+3.8	88	13	22	27	43	0.54	-2.72	0.22	T.	4	16	9	6	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	31	55.4	+1.8	88	12	20	27	44	1.43	-1.67	0.87	T.	3	23	2	6	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	32	52.4	+1.0	87	12	18	27	42	0.82	-2.23	0.24	T.	7	20	3	8	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	28	55.2	+2.4	86	13	23	27	39	1.28	-1.92	0.65	0	8	12	12	7	s.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	18	54.8	+1.8	88	11	20	27	53	3.04	-0.28	2.00	T.	12	13	7	11	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	40	54.8	+0.5	84	12	21	27	37	0.65	-2.87	0.25	0	6	13	14	4	s.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	18	54.4	+1.4	85	17	21	27	40	0.97	-2.04	0.35	0	9	20	3	8	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	40	52.6	+2.6	82	12	20	27	45	3.11	-0.19	1.53	T.	8	16	5	10	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	27	55.7 ^a	+0.6	85 ^a	13	24 ^a	27	38 ^b	0.77	-2.40	0.45	0	6	13	7	11	s.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	13	50.6	.....	80	12	20	30	28	1.89	.....	0.64	0.2	13	12	5	14	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	21	57.0	+2.1	86	12	24	27	38	1.48	-1.77	0.95	0	5	20	10	1	sw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	54	56.4	+4.2	87	12	25	27	38	1.38	-1.82	0.62	0	9	11	11	9	s.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	24	54.2	+3.7	86	12	20	27	44	1.51	-2.87	0.75	T.	6	14	11	6	n.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	4	49.2	.....	84	12	15	27	46	1.24	-2.21	0.80	0	8	17	4	10	sw.	Gustav Holtz.
Hamburg.....	Berks.....	535	35	53.8	-0.1	84	12	22	27	41	0.43	-3.63	0.18	0	5	15	13	3	w.	State Sanatorium.
Hanover.....	York.....	600	24	58.2	+2.1	88	12	25	27	35	0.96	-1.90	0.46	0	8	20	3	8	s.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	58	56.8	+2.0	85	12	29	27	31	0.80	-2.15	0.38	T.	5	10	11	10	s.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	9	52.2	.....	85	12	19	27	45	0.75	.....	0.33	T.	11	18	10	3	n.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	13	56.0	.....	79	13	31	30	25	0.74	-1.54	0.31	0	7	13	10	8	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	40	55.2	+2.7	88	12	21	27	50	1.86	-1.15	0.48	T.	11	15	6	10	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	17	56.0	+2.7	87	11	20	30	48	1.20	-1.66	0.41	0	11	6	12	13	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	40	55.2	+1.8	88	12	19	27	48	1.06	-2.02	0.69	0	5	23	5	3	s.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	30	52.6	+2.1	90	12	21	27	51	2.22	-0.54	1.20	T.	7	18	4	9	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	87	55.7	+2.5	89	13	25	27	41	1.89	-1.63	1.30	T.	5	17	9	5	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	53	55.6	+5.4	88	12	22	27	44	0.68	-2.56	0.32	0	5	12	10	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	38	55.6	+2.3	84	12	23	27	37	1.05	-2.20	0.31	T.	12	13	6	12	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	13	55.5	+2.1	88	12	18	27	46	1.62	-1.61	0.66	T.	6	16	11	4	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	37	54.2	+1.9	88	12	19	27	49	0.80	-2.96	0.25	T.	6	18	5	8	s.	R. K. Wintermute.
Millintown.....	Juniata.....	445	24	55.6	+3.2	87	12	22	27	46	1.51	-1.73	0.60	0	9	12	5	14	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	25	51.8	+2.8	82	12	17	30	37	3.62	+0.10	0.87	0	12	10	9	12	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	24	49.4	+2.0	84	12	16	27	28	0.97	-4.05	0.35	T.	9	19	6	6	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	16	51.8	+1.2	81	12	18	27	42	1.66	-1.70	0.89	T.	7	17	7	7	w.	H. O. Hacker.
Narberth.....	Montgomery.....	800	9	56.2	.....	85	13	26	27	33	1.10	.....	0.74	0	6	18	7	6	sw.	Charles Decker.
Neshaminy Falls II.....	Bucks.....	60	39	.....	.....	.....	.....	.....	.....	.....	0.55	.....	0.23	T.	4	8	11	12	sw.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	11	53.8	.....	88	12	21	27	40	0.73	-2.08	0.61	0	4	13	11	7	sw.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	57	59.9	+2.1	86	13	32	27	26	0.73	.....	0.76	0	6	17	13	1	.....	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	4	59.7	.....	86	13	32	27	27	0.98	.....	1.09	0	9	12	12	7	sw.	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	12	59.0	+1.6	87	13	32	30	29	1.34	-1.31	1.09	0	3	19	6	6	sw.	Commandant, Navy Yard.
Phila. Point Breeze.....	Philadelphia.....	90	3	59.3 ^a	.....	86	13	32	30	31	0.71	.....	0.57	0	3	19	6	6	sw.	Atlantic Refining Co.
Phoenixville.....	Chester.....	100	17	57.6	+3.2	89	13	24	27	38	1.08	-1.72	0.60	0	4	21	10	0	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	43	54.3	+2.2	86	12	20	27	42	0.84	-2.53	0.34	0	5	13	11	7	sw.	John E. Benner.
Reading.....	Berks.....	325	58	57.8	+3.1	85	12	31	27	31	1.81	-1.45	1.26	0	5	13	10	8	sw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	33	54.2	+2.3	84	12	27	27	37	0.66	-2.25	0.21	T.	7	10	6	15	sw.	Dr. George E. Fisher.
Selinsgrove.....	Snyder.....	455	38	55.5	+2.9	86	12	22	27	39	0.99	-2.55	0.46	0	5	17	5	9	s.	W. S. Guiles.
Shawmont I.....	Philadelphia.....	51	32	57.7	.....	84	13	28	27	31	1.11	-2.23	0.80	0	5	11	12	8	w.	C. A. Kern.
State College.....	Center.....	1,217	43	54.4	+3.4	85	12	23	27	40	1.11	-1.78	0.38	T.	9	14	11	6	w.	State Normal School.
Stroudsburg.....	Monroe.....	500	12	52.0	-1.0	88	12	20	27	48	0.46	-3.64	0.17	0	9	15	5	5	nw.	Hiram E. Bull, C. E.
Towanda.....	Bradford.....	754	33	52.2	+1.4	87	12	23	27	46	1.20	-1.90	0.35	0	8	15	5	11	s.	George W. Hill.
Wellsboro.....	Tioga.....	1,419	62	50.7	+1.6	84	12	20	27	46	1.92	-1.28	1.12	0.4	8	15	4	12	w.	Joseph W. Belt.
West Chester.....	Chester.....	455	90	56.4	+1.9	85	13	28	27	31	0.80	-2.94	0.50	0	3	18	11	2	sw.	Miss Veronica E. April.
Williamsport.....	Lycoming.....	521	41	56.4	+2.0	81	9	24	27	41	0.87	-2.50	0.36	0	8	11	11	9	sw.	York Water Co.
York.....	York.....	400	40	56.0	+2.4	89	12	22	27	44	0.91	-1.97	0.56	T.	8	16	8	7	n.	U. S. Engineer.
Ohio Drainage.																				
Beaver Dam I.....	Beaver.....	700	35	58.3	+2.8	86	12	27	30	41	2.46	-0.05	1.48	T.	15	10	4	17	sw.	Bradford Electric Co.
Bradford.....	McKean.....	1,460	13	.....	.....	85	12	21	27	50	3.67	+0.70	1.25	T.	10	15	5	11	.....	John Fawcett.
Brookville.....	Jefferson.....	1,173	37	51.3 ^c	+0.9	85 ^c	12	21 ^c	27	50	3.67	+0.70	1.25	T.	10	15	5	11	.....	William C. Faust.
Butler.....	Butler.....	1,152	3	55.7	.....	86	11	24	31	47	1.89	.....	1.36	0	4	11	5	15	sw.	J. L. Melvin.
Claysville.....	Washington.....	1,150	24	58.2	+4.5	91	11	18	30	48	2.28	-1.04	1.13	0	8	18	2	11	s.	Ass'd Gas & Electric Co.
Corry.....	Erie.....	1,430	16	55.0 ^e	+8.2	85 ^e	11	24	27	56	4.56									

Daily Precipitation for October, 1928

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh					.28										T.			.18	.02					.04				.10			0.62	
Altoona	Juniata				.42									.03				.50	.02					.27	.08	.24	.06	.04	.15	.03		1.87	
Ansonia|||	W. Br. Susq.		T.		.22								.12	.11			.03	.02	.62	.56	.03			.02	.14	.10		.07	.04	.02		2.05	
Arendtsville|||	Lower Susq.		.01	.01	.99					.60								.43						.19	.05			.11				2.40	
Baker's Summit	Juniata				.54					.05								.19						.60	.03	.07		.17				1.65	
Bethlehem	Lehigh				.21												T.		.12					.01	.01			.10				0.45	
Blossersville††	Lower Susq.				.17													.30								.16	.08	.26				0.97	
Carlisle	Lower Susq.				.15					T.								.22						.16		.01		T.				0.54	
Catawissa†	N. Br. Susq.				.55					T.														.87		.01		T.				1.43	
Center Hall	Susquehanna				.10													.02	.24					.10	.06	.18	T.	.12				0.82	
Chambersburg	Potomac				.19	.46				.05									.25					.22	.04			.02	.05			1.28	
Clearfield	W. Br. Susq.				.20					.07				.05				T.	.03	2.00		.06			.07	.08	.17	.05	.07	.19	T.		3.04
Coatesville	Lower Del.				.15													.25	.01					.14	.03			.05	.03			0.65	
Colebrook	Lower Susq.				.33	T.			.01								.02	.35	.01					.07	.04			.13	.01			0.97	
Conshohocken	Schuylkill				.05														.91					.02	T.	.14						1.12	
Cresson†	Juniata				.43														.72					.27	.13							1.55	
Doylestown	Lower Del.				.65														.69					T.	.08				.07			1.49	
Driftwood|||	W. Br. Susq.				.35					.06				T.	.08			.06	.56	1.15	.03			.07	.17	.14	.30			.30			3.27
Emporium	do.				.30								.48		T.	T.	T.	1.53	.07	T.				.12	.15	.18		.28	T.			3.11	
Ephrata	Lower Susq.				T.	.08												.08	T.	.05				.08	T.	.05		T.	.11	T.		0.77	
Forest City	N. Br. Susq.		T.	T.	.12								.13	T.	T.	T.	T.	.26						.17	.17	.12	.02	.21		.03		1.23	
Freeland|||	Lehigh		.01		.64				.01					.01				.55						T.	.40	.01	.11	T.	.07	.03	.02		1.89
George School	Lower Del.				.18								T.					.95	T.					.20	.05			.10				1.48	
Gettysburg	Potomac		.02		.02	.60				T.								.46	.01					.14		.02		T.	.10			1.38	
Giffardville†	Lower Susq.				.17				T.									.61						.56	.05	.03		.04	.04			1.50	
Gordon	Lower Susq.								.20									.75						.35	.09	.03		.09	T.			1.51	
Gouldsboro|||	Lehigh				.30									.06	.05	.05			.24						.18		.21		.15			1.24	
Graterford	Schuylkill				.51														.40					.02	.14			.14				1.21	
Hamburg	Schuylkill																	.06	.18					.13	.04							0.43	
Hanover	Lower Susq.				T.	.46			.02									.25						.11	.02	.01	.02		.07			0.96	
Harrisburg***	do.				.20				T.								T.	.38						.10	.04	T.	T.	.08		T.		0.80	
Harrisburg East	do.				.23												.02		.38					.14	.08	T.	T.		.10	T.		0.95	
Harrisburg North	do.				.20					.01								.29						.13	.11	T.		.12				0.86	
Hawley|||	Upper Del.		.03		.06									.02				.14						.33	.02	.01	.01	.10	.01	.02		0.75	
Hollisterville	Upper Del.				.11									.08				.10						.27	T.	.13		.09	.10	T.		0.88	
Holtwood|||	Lower Susq.		.04		.01	.31			T.									.17						.15	.01			.05				0.74	
Huntingdon	Juniata				.31				.02								T.	.02	.48					.47	.10	.29	.02	.02	.12	.01			1.86
Hyndman	Potomac			.02	.29				.05									.02	.22					.41	.02	.01	.11	.03	.02				1.20
Lakeville|||	Upper Del.				.02	.08												.10						.22		.08			.10			0.60	
Lancaster	Lower Susq.				.16													.69						.06		.04			.11			1.06	
Lansford|||	Lehigh		.31		.16				.01								.01	T.	.32					.18		T.			.11	T.		1.10	
Lawrenceville	N. Br. Susq.				.15									.08			T.	T.	1.20		T.			.22		.32	T.	.20		.05		2.22	
Lebanon	Lower Susq.				1.30				T.							.01	T.	T.	.31					T.	.10	T.	T.	T.	.17				1.89
Lewisburg	W. Br. Susq.				T.	.06			.01									.20						.32	.09	T.		T.				0.68	
Lloyd	do.																																
Lock Haven	do.			.02	.01	.15			.03					.01				.03	.31					.28	.02	.04	.03		.12	T.			1.05
Lyles	Susquehanna				.66													.52	.01					.33	.03	.03		.07	T.			1.62	
Mauch Chunk	Lehigh				.13	.04			T.									.25						.21	.03		T.	.14		T.		0.80	
Mifflintown	Juniata				.22	.38			.02									.19						.47	.07	.05		.02	.09				1.51
Montrose	N. Br. Susq.				.10	.70			.03				.03	.09			.15		.60					.70	.17	.35	.50		.20				3.62
Morris Run	N. Br. Susq.				.20									.16			.05	.01	.81		.02			.15		.50	T.			T.		1.96	
Mount Pocono	Upper Del.			.01	.35					.06				.06		T.	.03	T.	.03	.30		.02		.10	.04	.05	T.			T.	T.		0.97
Muncy Valley	W. Br. Susq.				T.	.08								.03				.34						.89	.10	.04	T.		.18			1.66	
Narberth	Lower Del.				.15												T.	T.	.30	.44				.16	.02		T.	.03				1.10	
Neshaminy|||	Lower Del.																	.12	.05					.19	T.	T.	T.	.03				1.03	
New Park	Lower Susq.				.62				.02									.11						.23	T.	T.	T.	.08	T.	T.		0.55	
Palmerston	Lehigh				.13																												0.86
Paupack|||	Upper Del.				.10																												

Daily Precipitation for October, 1928—Continued from page 48

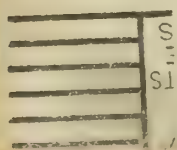
Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Ohio Drainage.																																			
Beaver Dam|||	Ohio		.01	T.			.12			.06							.02	.12	1.36	.03					.30	.05	.14	.11	.01	.11	.01	.01		2.46	
Beaver Falls|||	Beaver		.01	.02		T.	.19			.03							.04	.03	1.43	.06		T.			.38	.02	.22	.19	.07	.09	.01			2.79	
Bradford	Allegheny																					*			.45	.20	.50		.15		T.			3.67	
Brookville	do				.47			T.							.10		.50	1.25	.05						.45	.20	.50							1.89	
Butler	Ohio							T.		T.							.17		1.36						.19	.17								2.28	
Claysville	do					.74			.09								T.		1.13	.01					.11			.02	.04	.14					
Cloeff	Allegheny					.19			T.	.04				.08				.50	.71	.05	T.				.35	.20	.18		.15	T.				2.40	
Clymer|||	Conemaugh				.38				.07				.03				.02	*	.76		.10				.40	T.	.14	.09	T.	.20				2.19	
Confluence|||	Youghiogheny					.15			.07									.03			.22				.22	.19	.08	.09		.34				1.39	
Coraopolis|||	Ohio	T.	.01			.15			.06								T.	.05	1.30	.15					.10	.02	.09	.09	T.	.13	T.			2.15	
Corry	Allegheny					.29			.04					.56				.02	1.13	.15	.01				.54	.76	.17	.08	.31	.37	.12	.01		4.56	
Coudersport	do				.50			.03						.06				.17		1.60		.07					.17	.34		.05	.20			3.19	
Creekside	Allegheny					.30			.02				.01				.10		1.30	.19					.09		.36	.01		.28				2.66	
Derry	Conemaugh				.40				.11				.03				T.		.62		.07				.30	T.	.11	.09	.12	.16	T.			2.01	
Donora|||	Monongahela	T.			T.	.27			.04								.02	T.	1.10		T.				.05	T.	.04	.02		.11	T.			1.65	
Ebensburg	Conemaugh				.16	.07			.02									.04	.50						.30	.20	.14		T.	.30	T.			1.73	
Elk Lick	Youghiogheny				.22				.04										.32						.55		.70			.47				2.30	
Falls Creek	Allegheny		.02			.16							.08				.06	.09	1.07						.20	.07		.44		.17				2.36	
Franklin|||	Allegheny			.06		.23				.10					.05			.03	.32	1.05	.07	.20			.80	.04	.38	.50		.17	.08			4.08	
Freeport|||	do			T.		.10			.04								.01	.01	.74	.38	.05				.04	.16	.09	.08	.01	.18	.02			1.91	
Greensboro	Monongahela					.15								.01					.02	.08	.40				.30	.18	.04	.14		.20				1.52	
Greensburg	Youghiogheny	T.			.45				.01					.01	T.		.02	T.	.81		.01				.12	.06	.04	.08	.16	.08	T.			1.85	
Greenville	Beaver	T.	.05		.51	.02			.07	T.				.08				.14	.08	.75	T.				.55	.41	.30	.23	.22	.08	T.			3.49	
Grove City	Beaver		T.		.30									.18			.35	.20	1.88	.04	.01				.51	.09	.60	.21	.09	.07	.02			4.55	
Herrs Isl. Dam|||	Ohio	T.	.01			.14			T.					T.			T.	.02	.65	.28	T.				.08	T.	.03	.08	.02	.11	T.	T.		1.42	
Ingram	Ohio		.03		.13				T.									T.	1.11	T.					.07	.06	.10	.02	.17	.01	T.			1.70	
Irwin	Youghiogheny	T.			.38				.02					.02				.03		1.03		.02			.13	.03	.01	.02	.11	.12	T.			1.92	
Johnstown	Conemaugh		.02		.24				.01	.09				.01				.01	.13	.43	.03	T.			.26	.09	.18	.03	.31		.01	T.		1.85	
Kregar|||	Youghiogheny	T.			.15			.11						.03	T.		.02	T.	.42	.03				.20	.25	.11	.11	T.	.33	T.			1.76		
Linesville|||	Beaver		.07	.02		.21			.19					.10			.11	.17	1.61		.10				.44	.02	.34	.56	.01		.34			4.29	
Lock No. 4|||	Monongahela			.02		.32			.03								.03	T.	.66	.39					.04	.01	.04	.04	T.	.22				1.80	
Lycippus	Conemaugh						.62										.09		.64						.39	T.		.13	.07	.23				2.17	
Meadville	Allegheny	.02				.31			.11				.25				.42	.03	1.28	.16					.38	.20	.50	.21	.08	.27	.12			4.34	
Mount Lebanon	Ohio	T.			.28				.03										1.03						.10	.10		.06	.17					1.77	
New Castle|||	Beaver		.03	.02		.22			.05									.17	1.36	.04	.02				.57	.02	.32	.31		.17	.04			3.34	
Newell	Monongahela	.01			.28				.05									.66							.10				.25					1.35	
Parkers Landing|||	Allegheny				T.	.30			.05					T.	.06		.10	.15	1.54	.35					.22	T.	.50	.35	T.	.18	.12	T.		3.90	
Pennline|||	Beaver		T.	.06		.18			.11							.06		.20	.25	1.42		.20			.39	.02	.30	.40	.18		.14			3.91	
Pittsburgh**	Ohio		.02		.09			T.	T.									.01	.50	.36	T.	T.			.04	.04	.04	.01	.11	T.	T.			1.22	
Ridgway	Allegheny			.08	.30				.05					.09				.13	.10	1.34		.15			.29	.11	.30	.10	*	.18	T.	T.		3.22	
Saltsburg|||	Conemaugh				.42			.05									.03	T.	.80	.47	.02				.03	.13	.04	.07		.19				2.25	
Sharon|||	Beaver		.03		.02	.17			T.					.05				.10	.70	.03					T.	T.	1.18	.15	T.	.16				2.59	
Somerset	Youghiogheny				.10	.05			.06										.05	.35		.04			.35	.05	.08	.10		.35	T.			1.58	
Springdale|||	Allegheny	T.	.01			.18			.14					T.			.02	.03	.94	.31	.06				.03	.07	.06	.07	.05	.22	.01			2.20	
Uniontown	Monongahela				.08				.05					T.	.02			.04	T.	.43		T.			.39	.03	.02	T.	.06	.13				1.25	
Unity Reservoir	Youghiogheny	T.			.36				.08									.04	.05	.63					.18	.08	.12	.10	.18	.15	T.			1.97	
Vandergrift	Conemaugh				.44														.90	.59	.12				.07	.06	.09	.01	.20		.02			2.50	
Warren	Allegheny				.18				.08					.59				.42		1.70	.20					.62	.30	.45	.20	.06	.29	.15			5.24
Washington	Ohio																		.80	1.68		.12			.47	.30	.29	.52						4.35	
Westford|||	Beaver				.07	.10												.02	.40	1.45	.25	.20			.52	.32	.45	.25	.04	.24	.10	.15		5.24	
West Newton|||	Youghiogheny					.18			.08					.35	.24			.02		1.45		.20				.32	.28	.20		.14				2.67	
Zelienople|||	Ohio	.02	.01			.07			.05									.02		1.52	.04					.32	.28	.20							
Lake Drainage.																																			
Erie***	Lake Erie		T.			.27			.03						.38			.84	.04	.71	.11					.33	.52	.08		.05	.02	T.			3.38

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for October, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	65	63	75	77	75	72	73	72	78	68	78	86	82	65	61	72	84	80	78	61	65	64	72	58	55	51	46	59	46	48	54	67.2	
	Minimum	38	39	45	48	50	46	38	42	45	42	45	47	48	37	39	41	61	59	49	41	43	43	45	43	37	27	31	33	29	31	41.6		
Altoona.....	Maximum	60	64	73	75	75	69	67	77	72	53	85	79	70	72	74	84	76	72	56	62	67	58	52	47	47	38	49	41	46	56	65.2		
	Minimum	45	43	46	48	60	44	44	34	48	43	45	57	62	47	40	55	61	60	45	38	37	38	52	40	38	33	24	36	31	28	26	43.5	
Beaver Dam.....	Maximum	70	69	78	85	81	74	72	78	81	77	85	86	84	74	80	80	85	78	73	67	65	72	71	58	55	51	49	53	48	51	56	70.5	
	Minimum	41	49	54	52	61	44	42	38	61	43	44	53	61	52	54	60	64	64	55	38	36	41	50	40	35	37	30	44	32	27	27	46.1	
Bradford.....	Maximum	65	70	74	83	77	71	69	73	77	70	83	85	78	75	73	81	72	68	68	68	68	71	61	48	49	48	46	48	40	46	53	66.2°	
	Minimum	31	37	45	43	47	37	31	28	36	31	33	42	49	34	52	57	50	36	57	73	67	72	58	47	50	50	47	44	47	50	52	36.4°	
Butler.....	Maximum	67	67	75	84	72	75	75	77	76	86	85	82	75	78	75	83	79	73	67	72	72	58	47	50	50	47	44	47	50	52	68.2		
	Minimum	34	45	59	45	62	41	35	30	64	36	39	49	65	45	57	69	63	55	35	40	35	33	40	38	31	31	34	31	29	24	43.2		
Carlisle.....	Maximum	64	64	76	70	75	75	70	80	73	83	86	88	78	63	75	86	81	76	70	66	66	61	58	55	51	46	50	45	49	57	68.2		
	Minimum	44	46	46	46	62	49	43	35	56	56	40	44	54	50	35	58	60	61	50	41	40	37	51	42	33	30	22	40	38	27	27	44.0	
Catawissa.....	Maximum	62	62	80	81	72	76	77	72	80	76	84	88	80	70	71	75	83	77	71	75	76	70	65	65	58	52	51	49	58	48	53	69.5	
	Minimum	35	43	47	47	59	47	40	31	52	39	40	45	52	44	31	40	50	64	49	40	37	36	55	40	38	27	20	45	25	29	29	41.2	
Chambersburg.....	Maximum	62	60	72	73	75	73	73	67	77	71	79	84	86	77	59	77	83	77	71	63	67	78	69	58	58	51	51	55	45	48	55	66.9	
	Minimum	44	44	42	46	60	52	43	38	48	43	41	45	52	51	50	57	61	60	48	44	37	36	50	39	35	34	23	40	36	23	27	43.5	
Claysville.....	Maximum	71	74	85	90	87	78	76	83	83	81	91	89	83	80	86	84	89	77	71	63	67	78	69	58	58	51	51	55	45	48	58	72.9	
	Minimum	36	46	51	50	60	39	41	35	63	37	45	53	62	52	45	61	70	63	46	28	30	43	48	38	36	32	27	43	29	18	24	43.6	
Clearfield.....	Maximum	62	69	74	86	81	79	80	76	80	78	88	88	79	70	78	86	83	72	59	69	71	60	56	50	50	40	48	43	50	60	69.1		
	Minimum	42	37	48	49	58	40	35	31	48	36	35	45	54	48	40	36	58	63	45	39	37	32	49	37	38	29	20	35	32	23	33	40.4	
Coatesville.....	Maximum	64	65	73	74	75	72	72	67	78	69	75	84	84	77	61	76	81	76	78	68	65	66	73	64	56	52	48	58	50	45	53	67.7	
	Minimum	31	37	42	46	50	52	42	34	50	45	39	47	53	45	34	59	62	67	61	49	34	35	51	42	32	28	21	41	28	21	23	42.0	
Corry.....	Maximum	65	70	77	82	78	72	64	72	72	69	85	87	73	62	69	85	84	71	73	72	62	65	70	63	47	48	48	40	46	29	26	40.2	
	Minimum	32	43	51	46	62	37	38	28	32	33	29	54	52	44	37	37	62	59	50	42	42	46	46	37	34	28	24	36	29	29	26	40.2	
Emporium.....	Maximum	60	64	72	76	72	69	65	66	75	65	79	82	70	60	70	71	79	69	66	57	62	67	63	50	45	64	42	49	42	41	52	63.4	
	Minimum	45	38	54	52	57	40	38	32	54	43	34	47	54	41	35	51	61	57	52	39	42	34	50	40	38	26	20	40	32	31	21	41.9	
Erie.....	Maximum	66	66	74	81	73	68	63	73	70	70	83	81	74	55	68	74	75	64	67	63	64	70	58	48	48	48	45	39	50	54	66.0		
	Minimum	43	53	57	59	60	53	50	45	58	48	63	70	47	47	48	65	67	61	50	47	48	50	46	43	42	34	33	35	34	36	34	49.2	
Franklin.....	Maximum	62	69	75	83	72	74	67	75	73	76	73	87	85	72	62	75	76	78	72	68	60	58	56	58	52	45	40	39	42	41	38	41	41.2
	Minimum	38	40	51	48	49	42	40	32	33	39	39	41	52	48	41	49	60	62	55	43	40	39	52	41	38	32	25	29	32	33	24	41.2	
Freeland.....	Maximum	58	57	69	74	64	62	63	58	73	63	74	80	76	62	58	72	78	70	68	60	58	56	58	52	45	40	39	49	41	38	42	60.0	
	Minimum	37	39	47	50	54	44	45	35	47	40	46	57	56	36	39	50	59	62	50	38	36	38	48	36	32	26	21	32	25	20	30	41.2	
Gettysburg.....	Maximum	63	64	74	69	76	73	73	68	77	72	79	87	86	77	61	75	84	77	75	68	65	66	59	58	57	53	46	58	52	48	56	67.6	
	Minimum	45	47	45	48	59	52	45	41	58	46	42	49	57	52	40	59	64	65	52	44	37	52	39	43	39	33	25	40	36	26	30	45.3	
Greensburg.....	Maximum	68	72	76	85	78	74	71	77	78	72	86	86	78	73	79	81	85	76	70	63	64	72	66	56	52	45	50	52	45	48	54	68.8	
	Minimum	38	53	50	49	60	42	44	37	60	42	44	54	59	52	48	61	68	64	48	40	36	44	48	40	36	34	28	43	32	24	29	45.4	
Grove City.....	Maximum	65	65	73	82	75	71	67	75	77	71	86	85	79	70	73	78	81	75	68	57	62	71	67	60	52	47	42	45	43	47	53	66.5	
	Minimum	35	49	48	48	63	38	39	35	62	37	46	52	63	48	41	57	66	62	53	41	37	46	52	40	35	30	27	40	31	28	25	44.3	
Hamburg.....	Maximum	64	62	74	74	72	70	66	78	73	78	84	81	70	66	71	83	79	75	76	60	62	68	60	55	55	45	57	50	47	58	67.2		
	Minimum	33	41	42	43	44	40	42	33	46	42	38	46	40	38	33	56	58	62	54	38	34	35	49	46	45	35	22	38	34	23	25	40.5	
Harrisburg.....	Maximum	62	61	73	68	74	72	66	78	70	79	85	84	83	62	74	82	77	72	59	65	64	62	56	53	49	45	57	45	46	54	65.5		
	Minimum	47	48	49	51	62	53	50	43	55	52	48	54	59	47	44	59	66	63	55	50	46	45	55	42	41	37	29	41	36	32	34	48.2	
Hawley.....	Maximum	65	58	72	77	69	66	67	65	74	69	79	85	79	62	64	78	84	77	78	69	61	61	68	56	49	46	46	52	46	42	52	65.0	
	Minimum	32	33	50	45	49	48	36	29	42	36	34	47	62	35	27	54	57	64	47	41	44	29	50	39	34	30	19	34	29	20	21	39.3	
Huntingdon.....	Maximum	62	61	75	78	74	74	70	81	73	86	88	82	75	71	78	86	80	74	69	66	68	62	55	51	51	44	53	48	48	59	68.3		
	Minimum	45	42	47	51	64	47	38	35	47	39	36	47	48	50	36	52	60	63	46	40	37	35	54	39	38	29	21	37	36	26	24	42.2	
Johnstown.....	Maximum	64	71	75	84	79	65	71	73	78	75	85	87	79	70	81	80	82	72	73	54	67	74	61	51	49	54	44	49	42	45	54	67.4	
	Minimum	46	41	48	52	59	45	45	47	52	43	42	48	56	54	55	55	64	56	47	44	39	38	45	43	39	34	28	41	34	29	30	45.1	
Lancaster.....	Maximum	67	65	87	75	75	77	78	70	80	75	88	88	80	66	77	87	80	78	70	67	67	72	62	59	56	48	63	56	49	57	70.9		
	Minimum	34	39	39	42	50	47	38	33																									



CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. NOVEMBER, 1928. No. 11

GENERAL SUMMARY.

The temperature was above the normal about two-thirds of the time during November, and the third week was decidedly warm. There was more cloudiness but less rainfall than usual, while the snowfall was less than the November normal in the greater portion of the State. Heavy snows occurred in Somerset and Cambria and some of the northern counties. The high temperatures of the third week broke up with severe local storms that did serious damage in many places. The greatest damage was reported from a narrow belt extending eastward from northern Montour County to the city of Wilkes-Barre. From the descriptions of this damage it seems probable that the storm was a tornado although no one reported seeing a funnel. A few houses and barns were completely demolished, while a large number were unroofed or otherwise seriously damaged. In Wilkes-Barre twelve persons were injured, but no deaths were reported. In other regions many forest trees and orchard trees were uprooted and buildings were more or less damaged. A school house near Shippensburg was unroofed and the ceiling fell in, injuring the teacher and five pupils. The building was of brick with a slate roof and was in good condition before the storm. Altogether it seems to have been the most severe storm period of the year. Corn husking and the hauling of fodder progressed through the month in most sections, but were nearly finished at its close. Wheat and rye did fairly well excepting a few localities where the rainfall was insufficient for the best results, and at the end of the month they were reported to be in fair to good condition. Potato digging continued into the first week of November in some sections, but was soon finished.

TEMPERATURE.

The mean temperature for the State, as determined from observations at 85 stations, was 43.4°, which is 2.4° warmer than the normal for the month. The highest monthly mean was 49.0°, at Philadelphia Weather Bureau, and the lowest was 37.3°, at Gouldsboro. Extremes for the month ranged from a maximum of 81°, at Lancaster on the 18th to a minimum of 4°, at Montrose on the 26th. The greatest daily range of temperature was 44°, at Somerset on the 14th.

PRECIPITATION.

Precipitation, from rain and melted snow, for the State, as shown by reports from 137 well-distributed observing stations, averaged 2.32 inches, which is a deficiency of 0.49 inches as compared with the November normal. The greatest monthly total was 5.71 inches, at Westford, while the least, 1.05 inches, was recorded at Sunbury. The greatest amount recorded in any 24 consecutive hours was 1.50 inches, at Brookville on the 30th. Snowfall for the month averaged 2.3 inches, which is 0.3 inch less than the normal amount. The greatest monthly amount was 18.5 inches at Westford, and the greatest 24-hour fall was 6.0 inches, at New Castle on the 25-26th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	Direction
Erie.....	60.7	294.9	21	75	64	71	10,109	14.0	36	sw.
Harrisburg.....	117.7	299.4	37	73	60	61	4,286	6.0	40	sw.
Philadelphia.....	133.9	299.4	45	78	65	68	9,007	12.5	41	sw.
Pittsburgh.....	63.4	297.0	21	80	73	70	7,774	10.8	34	s.
Reading.....	85.6	299.4	29	73	58	69	4,105	5.7	21	nw.
Scranton.....	89.5	297.0	30	79	65	72	4,404	6.1	39	sw.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14	11
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17	15
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11	8
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13	9
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16	12
1893.....	39.2	68	4	2.93	5.69	1.16	8	11	11	8
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12	9
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11	10
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13	10
1897.....	41.6	76	8	5.28	7.04	2.37	6	8	16	14
1898.....	40.0	78	2	4.03	7.34	1.44	8	9	13	11
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12	7
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15	12
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15	8
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12	8
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11	7
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11	6
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11	9
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12	8
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9	10
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10	5
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19	7
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10	11
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16	10
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12	7
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15	11
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9	6
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11	10
1916.....	41.3	79	-4	2.27	7.97	0.88	13	6	11	9
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9	5
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12	7
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16	11
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18	16
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13	9
1923.....	40.7	70	10	2.83	6.84	1.55	12	5	13	10
1924.....	40.7	78	-9	1.54	3.29	0.56	12	8	10	7
1925.....	39.5	71	4	3.56	6.07	1.50	11	7	12	10
1926.....	40.4	79	-1	4.49	9.84	2.00	9	7	14	10
1927.....	46.2	85	10	4.95	11.36	2.21	7	7	16	14
1928.....	43.4	81	4	2.32	5.71	1.05	7	8	15	12

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	1.9	2.2	22	1.6	18	18
Phillipsburg.....	Delaware.....	1.0	1.0	4	0.9	1	22
Mauch Chunk.....	Lehigh.....	-3.2	-2.8	6	-3.4	1	12
Wilkes-Barre.....	Susquehanna.....	3.0	4.4	23	2.5	6	20
Williamsport.....	Susquehanna.....	1.0	2.6	22	0.5	3	20
Harrisburg.....	Susquehanna.....	3.5	3.9	25	3.4	1	17
Greensboro.....	Allegheny.....	11.5	17.6	20	10.2	6	22
West Newton.....	Youghiogheny.....	0.9	2.5	21	0.4	1	20
Lock No. 4.....	Monongahela.....	14.1	18.5	21	12.8	5	31
Pittsburgh.....	Ohio.....	11.6	15.2	22	10.5	3	25
Beaver Dam.....	Ohio.....	8.7	13.5	22	7.4	5	30

Climatological Data for November, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	43.8	.....	76	18	22	25	34	1.54	-0.86	0.45	T.	12	9	17	4	sw.	John A. Frick.
Altoona	Blair	1,615	41	42.0	+1.2	73	17	18	26	29	2.39	+0.48	0.59	6.0	15	11	4	15	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	44.5	.....	77	18	19	26	39	1.30	.....	0.44	0.5	6	18	6	6	nw.	Dr. S. W. Frost.
Bellefonte	Center	1,050	23	41.2	.....	72	17	17	26	34	1.23	-0.93	0.40	1.7	10	1	6	23	w.	U. S. Weather Bureau.
Bethlehem	Northampton	364	44	46.7	+2.7	76	18	21	26	30	1.54	-1.57	0.55	T.	9	13	3	14	w.	Lehigh University.
Carlisle	Cumberland	467	61	45.0	+4.3	80	17	22	26	39	1.79	-1.40	0.58	T.	7	11	8	11	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	44.2	+1.8	80	18	17	26	42	1.61	-1.10	0.52	T.	8	15	4	11	.....	H. H. Yetter.
Center Hall	Center	1,272	32	41.3	+1.4	73	18	15	26	39	1.40	-0.62	0.38	2.0	9	11	7	12	.....	S. W. Smith.
Chambersburg	Franklin	580	28	44.4	+3.0	77	18	22	10†	37	1.64	-1.01	0.71	0.1	7	7	15	8	sw.	William B. Spear.
Clearfield	Clearfield	1,120	18	42.0	+1.3	72	17	18	26	33	3.79	+0.95	1.05	5.0	16	7	8	15	nw.	E. W. Hess.
Coatesville	Chester	380	40	44.2	+1.3	75	18	17	26	38	2.22	-0.97	0.85	0.4	11	5	14	11	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	43.8	+2.8	78	18	20	26	34	1.85	-0.63	0.76	T.	6	14	4	12	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	40.7	+1.5	69	17	16	26	34	3.36	+0.65	1.12	0.6	9	5	12	13	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	45.8	+3.4	78	18	22	26	33	1.59	-0.80	0.63	T.	8	12	5	13	w.	Ira J. Keath.
Freeland	Luzerne	1,970	13	38.8	.....	68	18	10	26	24	2.15	-1.20	1.10	3.2	16	4	11	15	nw.	Theo. Reichmann.
George School	Bucks	190	21	44.3	+1.7	75	18	18	26	37	1.51	-1.20	0.45	T.	11	17	4	9	w.	Prof. N. W. Swayne.
Gettysburg	Adams	553	54	46.6	+5.3	77	18	20	26	34	2.01	-0.66	0.77	0.5	9	12	9	9	w.	Dr. Henry Stewart.
Gordon	Schuylkill	840	24	43.0	+4.0	76	18	18	26	35	2.40	-0.39	0.72	5.0	11	10	6	14	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	4	37.3	.....	68	18	9	26	36	1.99	-0.84	0.38	5.5	9	13	4	13	w.	Gustav Holtz.
Hamburg	Berks	585	35	43.2	+1.0	75	18	20	26	35	2.24	-0.62	0.80	T.	7	10	13	7	w.	State Sanatorium.
Hanover	York	600	24	47.9	+3.7	78	18	19	26	34	1.73	-0.20	0.75	0.3	9	13	7	10	sw.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	46.4	+3.6	76	18	23	26	29	2.25	-0.10	0.88	T.	7	4	10	16	w.	U. S. Weather Bureau.
Hawley	Wayne	900	9	40.4	.....	71	18	10	26	37	1.08	-0.39	0.39	3.0	15	10	7	13	n.	J. S. Pennell.
Holtwood	Lancaster	200	13	46.4	.....	78	18	22	26	29	1.26	-0.72	0.64	.....	8	9	10	11	w.	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	44.6	+3.1	75	17	22	26	36	1.27	-1.09	0.56	T.	8	3	10	17	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	17	44.4	+2.4	79	17	21	26	39	2.10	+0.56	0.65	1.2	10	3	6	21	w.	John S. Madore.
Lancaster	Lancaster	255	40	44.8	+1.7	81	18	18	26	41	2.13	-0.29	0.78	T.	7	18	7	5	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	40.6	+1.9	69	15†	12	26	34	2.15	+0.01	0.61	1.5	9	7	8	15	sw.	C. P. Darling.
Lebanon	Lebanon	469	87	45.1	+2.9	79	18	21	26	40	1.68	-1.21	0.58	T.	11	10	9	11	sw.	S. B. Benzing.
Lewisburg	Union	450	53	43.4	+4.3	75	17	21	26	36	1.49	-1.02	0.40	0.7	10	9	8	13	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	44.9	+3.0	74	18	20	26	31	1.61	-0.83	0.50	0.5	11	1	12	17	nw.	Joseph Beaver.
Lykens	Dauphin	680	13	44.4	+3.4	79	18	18	25	38	2.47	-0.58	0.81	1.0	11	16	6	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	42.9	+2.3	76	18	15	26	43	2.14	-1.19	0.82	1.5	6	11	8	11	s.	R. K. Wintermute.
Millintown	Juniata	445	24	44.2	+3.6	73	17†	23	10†	35	1.42	-0.42	0.41	2.0	10	6	6	18	w.	Wellington Smith.
Montrose	Susquehanna	1,720	25	39.4	+2.5	70	16	4	26	38	2.55	+0.15	0.65	8.0	8	5	17	w.	Silas Jagger.	
Mt. Pocono	Monroe	1,658	24	37.4	+1.6	70	18	8	26	29	2.10	-0.62	0.66	4.5	14	8	7	15	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	43.0	+3.8	71	18	15	26	32	1.66	-0.76	0.83	1.0	5	16	7	7	w.	H. O. Hacker.
Narberth	Montgomery	300	9	45.8	.....	75	18	20	26	30	2.13	.....	0.77	T.	11	7	9	14	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	39	43.8	+2.3	75	18	18	26	41	1.49	.....	0.40	T.	11	11	12	7	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	43.9	.....	77	18	21	26	34	2.27	.....	0.93	1.2	8	4	9	17	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	49.0	+3.3	74	18	25	26	23	1.94	-0.76	0.77	T.	8	4	10	16	sw.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	113	4	48.8	.....	74	18	23	26	28	1.83	.....	0.62	T.	9	6	10	14	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	47.8	+2.4	74	18	24	26	30	1.60	-0.88	0.46	T.	9	4	5	21	sw.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	48.2	.....	74	18†	24	26	24	2.43	.....	0.98	T.	8	12	7	11	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	17	47.0	+4.4	79	18	19	26	32	1.57	-1.15	0.47	T.	9	14	11	5	nw.	North Springfield Water Co.
Quakertown	Bucks	496	43	44.2	+3.2	77	18	19	26	39	1.70	-1.46	0.53	T.	11	7	6	17	nw.	John E. Benner.
Reading	Berks	325	58	47.2	+4.7	77	18	23	26	28	2.03	-1.09	0.71	0.1	8	1	13	16	w.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	43.0	+2.5	72	18	18	26	26	1.88	-0.41	0.67	0.6	12	5	3	22	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	44.7	+3.2	76	18	20	26	34	1.29	-1.39	0.45	1.0	10	13	6	11	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	46.6	.....	74	18	23	26	28	1.49	-1.39	0.50	0	8	5	10	15	w.	W. S. Guiles.
State College	Center	1,217	43	42.4	+2.7	71	17	20	26	30	2.10	-0.20	0.60	1.9	15	7	9	14	w.	C. A. Kern.
Stroudsburg	Monroe	500	12	41.3	+1.0	75	18	16	26	42	2.62	-0.92	0.56	T.	12	8	7	15	nw.	State Normal School.
Towanda	Bradford	754	33	41.8	+2.5	72	18	18	26	33	1.87	-0.63	0.46	0.5	11	7	6	17	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	39.6	+2.1	69	17	16	26	31	2.07	-0.56	0.78	5.0	7	17	4	9	w.	George W. Hill.
West Chester	Chester	455	90	46.4	+3.6	75	18	20	26	26	2.12	-1.51	0.76	0.3	9	12	11	7	nw.	Joseph W. Belt.
Williamsport	Lycoming	521	41	43.6	+2.8	77	16	20	26	33	1.32	-1.08	0.39	0.7	14	8	5	17	w.	Miss Veronica E. April.
York	York	400	40	45.2	+2.7	78	18	20	26	41	1.39	-1.16	0.56	T.	7	14	10	6	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	44.4	+1.1	74	17	18	26	33	2.14	-0.20	0.66	1.0	21	4	8	18	sw.	U. S. Engineer.
Bradford	McKean	1,460	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Bradford Electric Co.
Brookville	Jefferson	1,173	37	38.6	+1.0	72	17	13	25†	36	5.23	+2.39	1.50	2.0	11	9	7	14	.....	John Fawcett.
Butler	Butler	1,152	3	.....	.....	71	18	13	26	37	2.22	.....	0.70	3.2	10	9	4	17	w.	William C. Faust.
Claysville	Washington	1,150	24	43.6	+2.1	75	17	15	26	38	2.49	+0.55	0.89	1.5	16	6	1	23	n.	J. L. Melvin.
Corry	Erie	1,430	16	42.4	+4.2	68	17	17	26	28	4.34									

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Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh		T.	.02	.45	.22			.07	.02				.08			T.		.03	.13	.39	T.	.07	.03							.03	1.54	
Altoona	Juniata		.03	.13	.26		.02		.12		.13		.12				.02			.59	.03	.04	.25		.05					.02	.58	2.39	
Ansonia|||	W. Br. Susq.			.20	.03			T.	.11	.21		.06	.08	.06			T.		.01	.16	.68	.02	.12	.01	.02		.05	T.	T.		.02	.58	1.79
Arendtsville|||	Lower Susq.					.70								.05							.44		.04									1.30	
Baker's Summit	Juniata			.03	.33				.02				.15							.56							.33			.10	.40	1.92	
Bellefonte	W. Br. Susq.	.12	.02	.01			T.	T.	.14	T.	T.		.05	T.			T.	T.	T.	.37	.03	.05	.04	T.	T.	T.	T.	T.	T.		.40	1.23	
Bethlehem	Lehigh			.04	.55				.10				.05	.06			T.			.09	.36	T.	.04				T.	T.	T.		.25	1.54	
Bloersville||	Lower Susq.		.05	.33					.12				.08							.62	T.						.75	T.			T.	.52	2.47
Carlisle	Lower Susq.			.03	.50				.08				.03							.58		T.		.06			T.	T.				.51	1.79
Catawissa	N. Br. Susq.		.01	.03	.18				.18				.25							.02	.42											.52	1.61
Center Hall	Susquehanna		.02	.18					.12		.02		.22							.38	.24		.12	T.		.10			T.			1.40	
Chambersburg	Potomac			.01	.32				T.		T.		.03							.47	T.		.07				.03					.71	1.64
Clearfield	W. Br. Susq.		.07	.21	.03		.03		.35		.08	.12		.03			T.	T.		.05	.90	.30	.40	.05	.01		T.	T.	T.	T.	.04	1.05	3.79
Coatesville	Lower Del.			.11	.55				.04				.15	.03						.01	.38		.08	.03	T.		.04					.85	2.22
Colebrook	Lower Susq.			.12	.36				.06				.07							T.	.48		T.	T.	T.	T.		T.	T.			.76	1.85
Conshohocken	Schuylkill		.08	.27	.18				.02				.17							T.	T.	T.	T.				T.	T.				.84	1.56
Cresson	Juniata		.04	.15				.03	.17		.19		.14								.53	.13	.04	.05			.03	.01				.32	1.83
Doylestown	Lower Del.		T.	.09	.47				.05				.07							T.		.12		.05								.70	1.55
Driftwood|||	W. Br. Susq.			.07	.17				.12	T.		*	.23							.10	.70	.15	*	.30	.10							1.94	
Emporium	do			.41			T.		.22		.11	T.								T.	1.12	T.	.06	.31	T.		T.					.96	3.36
Ephrata	Lower Susq.			.08	.63				.05				.12	T.						.01	.55	.12	.03	T.	T.		T.	T.				1.59	
Forest City	N. Br. Susq.			.03	.30				.12				.06	.11						.06	.29	.27	T.	.17	T.		.10	.03		T.	.13	1.67	
Freeland|||	Lehigh			.05	.15	.21			.03	.12			.18							.04	.39	.71	.02	.13	.03	T.	.02	.02	.02	T.	T.	.03	2.15
George School	Lower Del.		.05	.16	.35				.05				.05	.02						T.	.03	.21	.02	.13							.45	1.51	
Gettysburg	Potomac			.08	.77				.02		T.		.02								.36	.04					.03	.05				.64	2.01
Girardville	Lower Susq.		.03	.35	.19				.23				.30							.03	.84	.04	.12				.03	T.				.52	2.68
Gordon	Lower Susq.			.09	.50				.21				.27								.72	.10	.03	.06			.10	.10				.22	2.40
Gouldsboro||	Lehigh			.14	.30					.20			.32								.38		.26		.09			.09				.21	1.99
Graterford	Schuylkill			.07	.51				.14				.07								.04	.23	.06	.07								.71	1.90
Hamburg	Schuylkill			.20	.80				.16				.10								.44	.43	T.				T.	T.				.11	2.24
Hanover	Lower Susq.		T.	T.	.75				.04		T.		.01	T.			T.	T.			.32	.07	T.			T.	T.					.50	1.73
Harrisburg***	do			.05	.64				.03				.05				T.	T.			.88	T.	.03	T.	T.		T.					.57	2.25
Harrisburg East	do			.04	.73				.04				.08							.01	.81	.01	.03	.06		T.	T.					.54	2.35
Harrisburg North	do			.05	.38	.27			.05				.09								.56	.12	.05	.03								.60	2.20
Hawley|||	Upper Del.			.08	.03	.12			.01	.11	.01		.12							.04	.24	.15		.07	.01	.01	.01	.07	T.			T.	1.08
Hollisterville	Upper Del.			.11	.03	.24			.04	.14			.24							T.	.06	.25	.21		.04	.05	T.	.02	.05	.02	T.	.04	1.54
Holtwood||	Lower Susq.			.05	.64	.12			.02				.04							T.	.01	.26	T.									.12	1.26
Huntingdon	Juniata		T.	.09	.35				.04		T.		.05	T.							.56	T.	T.		.09		.08						1.27
Hyndman	Potomac			.22					.03		.02	.13	.07	T.							.65	T.		.17	.07		.17	T.				.57	2.10
Lakeville|||	Upper Del.			.15	.22				.12				.25								.32	.18		.13	.05		.06					.05	1.53
Lancaster	Lower Susq.			.62					.05				.06								.10	.31	.21									.78	2.13
Lansford|||	Lehigh			.05	*	.39			.05	.17			.13							*	.50	.11		.07				.10				.01	1.58
Lawrenceville	N. Br. Susq.		.08	.28					.20		T.		.28								.61	T.		.10	T.		.05	.05			T.	.50	2.15
Lebanon	Lower Susq.		.02	.44	.06			.07					.15								.24	.03	.04			T.	T.				.04	.58	1.68
Lewisburg	W. Br. Susq.			.16	.12				.10				.14		.04					.02	.38	.02	.11			T.	T.					.40	1.49
Lloyd	do			.36			.04		.24				.42								.46	.16		.08								.61	2.37
Lock Haven	do			.15	.05		T.		.15				.01						.02		.08	.50	.04	T.	.11			T.				.35	1.61
Lykens	Susquehanna			.03	.73				.07				.12	.02							.81	.12	.25	.03		T.		.02				.27	2.47
Mauch Chunk	Lehigh			.32	.34				.28				.20	T.							.82		T.	.18			T.						2.14
Mifflintown	Juniata			.13	.16				.12				.12								.01	.41	.01	.13	.02		T.	T.				.31	1.42
Montrose	N. Br. Susq.		.15	.10					T.				.30								.30	.55		.40		T.	T.	T.		.10		.65	2.55
Morris Run	N. Br. Susq.			.17			T.		.27				.10								.85	.08		.15	.05		.05					.35	2.67
Mount Pocono	Upper Del.			.17	.10	.66		.20	.08		T.	T.	.16	.06							.12		T.	.06	.04	.03	.07		.10	.09		.55	2.10
Muncy Valley	W. Br. Susq.			.12			T.		.18				T.								.83			.11			T.					.42	1.66
Narberth	Lower Del.																																

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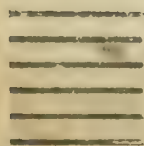
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam	Ohio	.02	.27	T.	.01				.12	.01		.08	.02	.16		.01	.01	.04	.02	.18	.66	.09	.14	.09		.05	.03		.01		.12		2.14	
Beaver Falls	Beaver	.02	.36	.04	.02				.17	.02		.09	T.	.16			.06	.04	.01	.22	.65	.15	.13	.17		.02	.10	T.	T.	T.	.07		2.50	
Bradford	Allegheny																																	
Brookville	do		.50					.08	.50		.75	T.	.20				T.	.05		1.25	.25			T.					.12	.03	1.50		5.23	
Butler	Ohio	\$	\$				\$				.17		.30							.60	.13			T.		.30			.02		.70		\$
Claysville	do	.06	.09	.07					.40		.11	.01	.06	.01				T.	.03	.89	.03	.01	.04	.01		.15			T.		.52		2.49	
Cloeff	Allegheny	.12	.08			.03	.05	.23		.22		.18				T.	.03	.08		.99	T.	.18	.11						T.		.82		3.09	
Clymer	Conemaugh	.14	.18		.05	.23		.18	.06	.16	.12					*	.03			.77	.06		.35			*			.03	.05	.68		3.09	
Confluence	Youghiogheny		.22	T.		.22	.05	.10		.10	.42		.08	.04			.03	T.	.05	.32	.30	.07	.16	.18		.10	.20		T.	.04	.40		2.91	
Coraopolis	Ohio	T.	.21	.01	T.	T.		.10	.03		.10	.02	.12		.05	.03	T.	.05	.32	.47	.06	.08	.05	T.	.04	.10		T.	T.	.08		1.92		
Corry	Allegheny	.01	.48	.05				.28	.01		.85						.26	.01	.07	1.12	.02	.04	.10		.10	.25		.01			.68		4.34	
Coudersport	do					.36				.30										.94		.40		.35							1.05		3.40	
Creekside	Allegheny	.23		.08		.03		.23		.10				.53		.04			*				.52				.04			*	.88		2.68	
Derry	Conemaugh	.03	.10	.16				.33		.15	.05	.11	.04				.05			.16		.15	.07				.08				.67		2.15	
Donora	Monongahela	.16	.04	.03		T.	.25	T.	.10	T.	.16	.03	T.				.03	*	*	.43	.16	T.	.02	.08		T.	.05			T.	.35		1.89	
Ebensburg	Conemaugh	.10	.21				.26		.20		.28	.03					.02			.58	.03		.40			.20						.60		2.91
Elk Lick	Youghiogheny	.10	.30				.31		.40		.30									.70		.30	.30			.40					.10	.40		3.61
Falls Creek	Allegheny	.30			.04		.38		.35		.29									1.00	.20	.38	.02	.30							.05	.81		4.12
Franklin	Allegheny	.10	.48	.10		.03		.17			.08	.09	.34				.05	.02	.08	.04	.93		.28	.17		.03	.02		.02	.05	.03		3.11	
Freeport	do	.24	.05	.02			.15	.01		.18	.04	.07		.07	.04		.03	.06		.30	.65	.10	.08	.14		.02	.08		T.	T.	.09		2.40	
Greensboro	Monongahela	T.			.18	.02	.09	.03	.02	.30		.14		.02	.02		.02	.02		.20	.38	.02	.05	.03		.02	.05		T.	T.	.25		1.84	
Greensburg	Youghiogheny	.02	.08	.11		T.	.30		.30	.02	.11	.03		.01	.05		.03	.63	.09	.01	.05	.03		.05	T.			T.	T.	.62		2.54		
Greenville	Beaver	.26	.26	T.			.27	T.	.04	.03	.22	.16	T.				.11	T.		1.05	.10	.05	.31	.26		.16	.24			.04	.62		4.18	
Grove City	Beaver	.22	.50	T.		.01		.28		.25	.02	.23					.03		.54	.75	.07	.08	.22	.14		.05	.12	.02	.02	.09	.59		4.23	
Herr's Isl. Dam	Ohio	.19	T.	.01			.12	.02		.11	T.	.06				.03	.06	T.	.03	.28	.48	.05	.07	.06	T.	.04	.05			.01	.07		1.74	
Ingram	Ohio	.03	.15	.04			.16		.12	.02	.11	T.				.03	.06		.05	.80	.04	.01	.13	T.		.11	.05		T.	.01	.63		2.55	
Irwin	Youghiogheny	.01	.11	.05			.26		.18	.05	.10						.05	.05		.48	.02	.02	.06	.03		.03	T.		T.	.05	.50		2.05	
Johnstown	Conemaugh	T.	.08	.20		.03	.38		.40		.19	.08				.01	.08		.02	.57	.27	.12	.51	.06	.01	.25	.08		T.	.02	.10	.64		4.03
Kregar	Youghiogheny	T.	.20	.09		T.	.39	.18		.08	.03	.34		.05	.07		.01	.29	.42	.15	.13	.19	.03	.08	.12			T.	.05	.18	.49		3.57	
Linesville	Beaver	.33	.02				.11	.02	T.	.03	.02	.71				.03	.15	.08	.06	.96	.50		.26		.06	.02	.01	.01	.02	.02			3.42	
Lock No. 4	Monongahela	.09	.08	.02		T.	.25	.01	T.	.25	.02	.18			.01	.03		.03	.25	.39	.04	.04	.06		.07	.01		T.		.18		2.01		
Lycippus	Conemaugh	T.	.08	.13			.43		.18		.17					.40			.97	.08		.03		.03		.10	T.				.83		3.40	
Meadville	Allegheny	.02	.51				.20		.01		.30	.14				.04	.02	.09	.92	.12	.08	.50	.08								.82		3.85	
Mount Lebanon	Ohio	.05	.15	.04			.20		.13		.12					.03	.09		.85	.05	.06	.08		.08	.04						.58		2.55	
New Castle	Beaver	.08	.37	.10	.02	.01	.09	.05	.02	.21	.03	.13	.01			.07	.04	.06	.12	.83	.10	.27	.20	.04	.01	.60	.05	.08	.02	.03		3.64		
Newell	Monongahela	.08	.08	.09			.19		.16	.06	.05	.03				.05	.05		.04	.61		.02		.10							.57		2.10	
Parkers Landing	Allegheny	.02	.40	.02			.20			.16	.05	.15				.02	.02	.02	.10	.85	.15	.27	.22	T.	.05	.05	T.	T.	T.	.04	.02		2.81	
Pennline	Beaver		.39	.06			.18		.03	.06	.66						.06		*	1.09	.23	.15	.06		.03	.05	T.		T.	.01	.45		3.19	
Pittsburgh	Ohio	.02	.14	T.		T.	.02		.08	T.	.11	T.	.05			.02	.06	T.	.05	.71	.03	.04	.01	T.	.02	.09	T.		T.	.04	.80		4.05	
Ridgway	Allegheny	.70	.28	T.			.19		.10		T.					.20		.05	.82	.10	.16	.08	.07	.07	.30					.02	.04		2.09	
Saltsburg	Conemaugh	.12	.09				.31		.26	.02	.01					.12			.19	.28	.15	.21	.09		.04	.11					.01	.08		3.23
Sharon	Beaver	.10	.48	.02			.13		.15	T.	.26									.98	.02	.26	.18		.50	.13					.02	T.		3.11
Somerset	Youghiogheny	.08	.28				.35		.40	.04	.15	.15								.50	.04		.06	.07		.30	.04		T.		.65		2.53	
Springdale	Allegheny	.20	.06	.01			.18	T.	.18	.01	.13		.04	.13			.06	.34	.63	.07	.08	.20	.02	.06	.08					.02	.03		3.07	
Uniontown	Monongahela	T.	.06	.06			.18		.45	.05	.08	.11		.12	.02		.12	.71	.05	.03	.12	.02		.15							.02	.71		3.21
Unity Reservoir	Youghiogheny	.04	.06	.12		T.	.33		.25	.10	.18	.05		.08			.05	.63	.12	.03	.08		.20	.10	.07			T.	T.	.72		2.80		
Vandergrift	Conemaugh	.06		.17		.02		.23		.20		.23					.04		.03	.83	.29	.11	.13	.02		.03					.69		3.98	
Warren	Allegheny	.02	.25				.15		.23		.23						.06	.08	1.10	.19	.14	.10	.04		.20	.16	.08	.04	.08		.86		5.71	
Washington	Ohio								.20		.10	.10	.58					.10	.25		1.00	.07	.66	.29	.10	.10	.14	.50			1.08		2.03	
Westford	Beaver	.42	.02						.29	.02		.22	.04	.07		T.	.05			.04	.21	.38	.07	.04			.06	.03		T.		.27		2.01
West Newton	Youghiogheny	.10	.12	.02																														
Zelienople	Ohio	.09		.39					.06	.11		.08	.20							.54	.45		.02		.01	.02								
Lake Drainage.																																		
Erie	Lake Erie	.13	.21	T.				.20	.65		.01	.01	.32				.01	.27	T.	.02	.71	.06	.38	.10	T.	T.	T.	.05		.04	.06	.65		3.88

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.

Daily Temperatures for November, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	58	58	57	52	55	61	61	60	44	44	52	40	51	56	66	68	71	76	70	58	40	42	42	41	41	37	35	44	42	55	52.6	
	Minimum	30	32	44	39	42	45	37	29	30	29	31	29	31	32	45	48	50	43	31	34	31	31	32	22	23	24	33	39	39	34.9		
Altoona.....	Maximum	57	52	54	54	59	57	63	55	39	36	39	43	47	56	65	69	73	69	58	51	38	37	35	42	38	25	39	37	40	43	49.0	
	Minimum	32	38	45	45	38	40	34	39	32	25	31	30	36	27	39	56	48	50	48	34	30	31	28	28	23	18	24	33	35	37	35.1	
Beaver Dam.....	Maximum	56	55	61	60	58	61	63	57	45	43	45	47	46	61	67	70	74	70	58	50	41	41	38	44	43	31	42	40	44	55	52.2	
	Minimum	30	40	43	44	31	42	30	42	36	34	33	37	38	30	43	55	50	55	44	34	31	33	30	32	24	18	27	33	39	40	36.6	
Bellefonte.....	Maximum	59	54	57	54	59	58	62	54	41	37	43	44	52	57	68	68	72	70	66	41	36	40	36	39	35	31	38	40	42	48	50.0	
	Minimum	25	37	45	43	30	39	35	35	25	21	22	21	29	25	35	54	44	47	40	33	31	32	27	30	21	17	24	31	35	37	32.3	
Brookville.....	Maximum	59	49	54	57	52	58	60	51	40	34	37	44	47	60	66	65	72	64	59	42	35	41	41	39	32	32	33	36	40	51	48.3	
	Minimum	23	23	37	28	23	27	25	32	22	22	29	31	26	24	36	47	44	38	36	31	29	25	23	29	13	13	29	31	34	35	28.8	
Butler.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	40	50	45	45	45	63	66	67	70	71	68	48	37	37	42	41	38	28	41	38	42	53	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	30	34	32	32	26	45	55	55	45	42	35	33	32	31	29	20	13	27	32	37	39	.....	.....
Carlisle.....	Maximum	63	62	60	58	60	62	63	61	48	45	51	41	56	56	70	72	80	77	72	58	42	45	47	43	42	35	43	48	50	47	55.2	
	Minimum	25	25	48	45	31	32	40	41	37	25	23	27	36	28	32	38	41	45	58	42	36	32	33	30	27	22	29	26	40	41	34.8	
Catawissa.....	Maximum	60	58	60	59	64	63	63	66	43	39	55	43	56	58	73	73	73	80	70	54	48	48	38	43	42	38	41	46	45	50	55.0	
	Minimum	25	33	38	45	30	38	32	48	33	20	23	24	31	24	31	48	45	49	49	38	31	36	29	28	30	17	20	37	32	38	33.4	
Chambersburg.....	Maximum	61	61	59	57	59	61	62	63	46	44	49	46	54	57	70	64	69	77	69	56	42	48	43	47	44	31	42	46	50	47	54.1	
	Minimum	27	26	48	48	31	35	33	40	37	22	32	25	40	24	33	54	39	45	54	39	35	33	32	29	26	22	26	27	39	40	34.8	
Claysville.....	Maximum	60	54	61	60	57	62	64	57	43	42	46	47	48	64	64	70	73	60	46	41	43	39	42	43	29	41	40	43	55	40	52.3	
	Minimum	27	36	47	43	32	41	26	37	33	32	30	33	36	28	40	55	55	55	44	31	28	32	28	29	23	15	22	32	36	40	34.9	
Clearfield.....	Maximum	62	52	57	59	57	50	63	61	42	40	41	46	54	59	66	66	72	67	55	52	45	41	38	48	40	28	39	37	41	46	50.8	
	Minimum	33	39	45	43	25	29	33	38	28	23	30	24	37	26	35	56	42	48	43	34	30	29	20	32	25	18	26	29	35	36	33.3	
Coatesville.....	Maximum	60	60	61	61	57	62	60	63	45	45	52	43	51	55	66	70	75	71	58	43	46	41	42	40	32	43	46	49	55	55	54.1	
	Minimum	22	33	51	47	31	39	30	42	34	24	30	24	39	25	35	42	45	53	56	38	31	35	30	25	25	17	28	24	30	41	34.2	
Corry.....	Maximum	50	58	57	53	54	62	59	54	53	54	.....	51	54	65	64	68	64	56	55	52	42	41	39	39	30	40	35	35	50	.....	51.2 ^b
	Minimum	26	41	44	42	26	43	34	34	32	25	30	.....	29	34	47	55	55	43	41	32	26	30	26	26	19	17	23	31	32	33	33.7 ^a
Emporium.....	Maximum	54	49	56	57	62	57	58	53	40	39	42	44	48	55	66	64	69	64	59	44	35	40	36	39	37	29	38	38	40	46	48.6	
	Minimum	23	37	44	43	28	29	30	36	28	20	29	28	32	28	59	69	62	55	48	44	35	30	32	30	30	21	16	28	30	36	36	32.8
Erie.....	Maximum	56	51	60	54	56	54	60	51	40	41	46	46	46	46	59	69	62	70	67	49	41	37	41	36	44	35	38	40	39	41	54	49.4
	Minimum	38	47	47	46	37	49	44	38	37	34	34	39	40	40	53	57	61	45	40	35	30	33	31	34	25	25	33	35	38	38	39.4	
Franklin.....	Maximum	57	53	59	60	56	58	63	65	42	40	45	45	45	45	59	68	64	71	61	49	41	37	39	35	42	37	33	41	37	40	49.9	
	Minimum	25	29	41	45	28	30	33	34	33	20	26	33	37	29	31	55	55	54	43	35	29	29	28	29	21	19	21	30	33	36	33.0	
Freeland.....	Maximum	54	56	51	50	51	54	50	52	35	40	42	36	41	52	62	63	66	68	60	46	34	38	34	36	32	24	34	38	36	41	46	46.0
	Minimum	30	41	44	40	32	38	35	32	26	26	27	25	29	28	39	50	51	51	46	32	22	24	23	22	20	10	20	24	31	33	31.7	
Gettysburg.....	Maximum	62	63	61	58	59	62	62	64	48	45	52	46	54	58	70	72	71	77	71	56	43	46	41	45	45	31	42	48	50	48	55.0	
	Minimum	28	36	50	48	37	41	39	47	38	27	28	27	43	28	42	57	48	54	56	40	35	36	33	31	34	20	28	30	40	41	41	38.1
Greensburg.....	Maximum	59	56	60	58	57	58	64	54	40	39	39	45	44	63	65	68	73	66	63	46	38	38	35	41	39	28	40	39	43	53	50.4	
	Minimum	29	42	49	44	33	43	33	40	35	30	32	32	37	28	43	55	54	58	46	32	30	32	30	28	21	15	26	35	37	41	41	36.3
Grove City.....	Maximum	58	50	58	56	55	58	62	53	54	41	45	43	44	57	66	64	71	64	56	56	51	34	35	39	37	37	39	40	40	41	41	38.1
	Minimum	27	41	46	43	30	43	32	41	33	30	33	37	36	34	49	52	50	45	41	33	30	30	28	31	20	13	19	28	34	32	42	53.3
Hamburg.....	Maximum	60	58	57	50	55	60	62	60	44	40	55	42	52	53	65	67	70	75	70	67	60	45	41	46	39	30	43	43	47	42	42	53.3
	Minimum	25	37	42	42	37	38	35	40	35	30	23	26	33	25	34	42	42	44	43	40	34	28	27	26	27	20	24	23	34	36	41	33.1
Harrisburg.....	Maximum	59	59	59	56	58	61	63	60	46	43	48	45	53	57	70	70	71	76	72	49	41	45	41	43	40	34	42	46	49	50	53.5	
	Minimum	34	43	48	48	45	44	43	43	38	34	33	32	39	33	41	55	49	56	49	38	35	36	33	34	25	23	34	34	41	42	42	39.3
Hawley.....	Maximum	57	55	51	52	51	58	55	50	40	43	52	46	46	52	65	70	66	71	67	65	39	39	37	38	38	28	36	41	40	40	49.6	
	Minimum	20	31	43	47	34	38	39	38	32	21	20	20	32	19	32	52	47	46	44	36	24	28	26	20	28	10	20	22	36	35	31.3	
Huntingdon.....	Maximum	61	58	58	56	63	60	65	59	40	40	45	45	54	56	69	72	75	74	67	57	41	43	40	44	43	29	43	43	45	45	53.4 ^a	
	Minimum	26	33	46	46	31	34	37	42	36	25	33	24	41	25	33	60	42	48	51	38	33	34	33	32	27	22	29	32	41	.....	35.7 ^a
Johnstown.....	Maximum	55	58	60	54	56	58	66	54	40	36	40	46	44	60	63	67	73	69	65	51	39	39	41	43	36	27	40	39	43	51	50.4	
	Minimum	31	40	50	44	34	39	37	40	35	30	32	32	34	28	41	57	49	54	51	33	30	31	31	32	22	20	27	33	36	40	36.4	
Lancaster.....	Maximum	65	65	61	60	61	66	66	68	52	44	55	46	56	59	73	75	77	81	75</													



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INP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. DECEMBER, 1928. No. 12

GENERAL SUMMARY.

December was abnormally warm and dry, the temperature being above the normal about three-fourths of the time with no intense cold at any time. The precipitation averaged 36 per cent of the December normal, and was the lowest average for December during the last 40 years. The snowfall was also the lightest of record for the month of December, there being only traces in a large portion of the State. The only snows of consequence occurred in a few southeastern and a few northwestern counties. The greatest amount of precipitation for any station was 2.57 inches at Greensboro, which sets a new low record for this item. Most of the precipitation occurred from the 14th to the 18th inclusive, during a decidedly mild period, and was all in the form of rain. With very little snow covering on the fields, the winter grains suffered no material injury, as there was no deep frost, and very little heaving of the soil by freezing and thawing. At the end of the month wheat and rye were reported to be in fair to good condition. The month was unusually favorable for outdoor work. Corn husking was mostly finished, and the fodder hauled in from the fields before Christmas. Construction work of all kinds proceeded with little hindrance from weather conditions. The temperature was above freezing so much of the time, especially in the southeastern counties, that concrete could be poured with little danger from freezing. No severe or damaging storms were reported from any part of the State, and with the sunshine averaging above the normal it was an unusually pleasant and agreeable winter month.

TEMPERATURE.

The mean temperature for the State, as shown by observations taken at 84 stations, was 34.4°, which is 3.3° warmer than the December normal. The highest monthly mean was 40.8° at Philadelphia Weather Bureau, the lowest was 28.6° at Ridgway. The highest temperature during the month was 68°, at Elk Lick on the 12th, while the lowest, -2°, was recorded at Brookville on the 21st and 22d. The greatest daily range of temperature was 51°, at Elk Lick on the 12th.

PRECIPITATION.

Precipitation for the State, as determined from reports of 133 well-distributed stations, was 1.16 inches, which is 2.07 inches less than the normal December amount. The greatest monthly total was 2.57 inches at Greensboro, and the least was 0.28 inch at Lawrenceville. The greatest amount recorded in any 24 consecutive hours was 1.15 inches, at Donora on the 14-15th. Snowfall averaged but 0.9 inch, as compared with a December normal of 9.2°. The greatest monthly snowfall was 7.0 inches, at Conshohocken, all of which fell on the 8th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	Direction
Erie.....	49.0	284.5	17	73	66	67	9.191	12.4	42	sw.
Harrisburg.....	157.1	290.6	54	70	56	61	3.915	5.3	26	sw.
Philadelphia.....	166.1	290.6	57	70	60	66	7.881	10.6	46	sw.
Pittsburgh.....	138.7	287.3	48	76	62	64	6.036	8.1	37	sw.
Reading.....	144.5	290.6	50	77	58	70	3.923	5.3	21	nw.
Scranton.....	103.0	287.3	36	76	60	67	4.427	6.0	28	nw.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	of inch or more prec.
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15	9
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11	12
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16	12
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11	10
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15	9
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14	12
1894.....	32.4	66	-23	3.95	5.93	2.27	10	9	12	7
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12	7
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12	6
1897.....	33.0	73	-6	3.95	6.25	1.23	6	8	17	12
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13	10
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11	10
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14	7
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15	11
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17	14
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14	9
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17	11
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14	8
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21	14
1907.....	33.2	68	-8	4.30	7.89	1.85	7	5	16	12
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14	10
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14	8
1910.....	24.4	68	-14	2.65	4.41	0.64	8	6	17	12
1911.....	36.3	70	-5	3.27	5.99	0.75	7	5	19	13
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15	9
1913.....	34.2	66	-7	2.63	4.11	0.69	9	7	15	8
1914.....	27.3	69	-28	4.63	7.74	2.43	8	6	18	14
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17	12
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11	12
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13	8
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15	11
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14	11
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15	10
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15	10
1922.....	31.5	69	-9	2.75	4.55	1.19	10	8	13	10
1923.....	39.6	71	1	4.99	8.55	2.42	9	7	15	14
1924.....	29.8	69	-23	2.13	4.42	0.56	7	7	17	11
1925.....	30.7	62	-15	1.72	3.93	0.69	8	7	16	10
1926.....	27.3	62	-20	2.58	4.61	0.90	8	7	16	12
1927.....	32.7	73	-6	4.41	8.93	2.16	9	6	16	13
1928.....	34.4	68	-2	1.16	2.57	0.28	13	7	11	6

RIVER CONDITIONS

Stations	Rivers	Mean stage		Highest stage		Lowest stage		Flood stage	
		Mean	Highest	Mean	Highest	Mean	Highest	Mean	Highest
Port Jervis.....	Delaware.....	2.5	3.7	2	1.8	24	18		
Phillipsburg.....	Delaware.....	1.5	2.8	4	1.0	19	22		
Mauch Chunk.....	Lehigh.....	3.2	2.9	25	3.6	13	12		
Wilkes-Barre.....	Susquehanna.....	4.5	9.6	3	2.7	31	20		
Williamsport.....	Susquehanna.....	2.1	5.1	2	0.8	25	20		
Harrisburg.....	Susquehanna.....	4.1	5.6	5	3.7	1	17		
Greensboro.....	Allegheny.....	13.4	26.8	1	10.9	13	22		
West Newton.....	Youghiogheny.....	1.9	5.2	2	0.8	13	20		
Lock No. 4.....	Monongahela.....	15.9	26.0	1	13.5	10	31		
Pittsburgh.....	Ohio.....	13.1	20.7	2	11.2	31	25		
Beaver Dam.....	Ohio.....	10.6	20.6	2	7.5	27	30		

Climatological Data for December, 1928

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	16	35.1		60	17	14	21	33	1.42	-2.43	0.69	0.3	7	15	12	4	sw.	John A. Frick.
Altoona	Blair	1,615	41	33.4	+4.4	55	13	5	22	32	0.69	-1.66	0.22	T.	6	19	5	7	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	34.6		56	4	9	22	32	1.52		0.72	T.	5	21	1	9	nw.	Dr. S. W. Frost.
Bellefonte	Center	1,050	23	32.3		54	13	5	22	35	0.39	-2.51	0.18	T.	3	10	9	12	w.	U. S. Weather Bureau.
Bethlehem	Northampton	364	44	37.5	+4.4	59	18	15	22	25	0.87	-2.63	0.43	0.7	8	13	4	14	w.	Lehigh University.
Carlisle	Cumberland	467	61	35.2	+3.9	58	18	10	22	34	0.77	-2.24	0.58	0	5	21	3	7	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	31	33.4	+1.8	60	17	6	22	38	0.33	-2.67	0.18	T.	4	21	2	8		H. H. Yetter.
Center Hall	Center	1,272	32	32.2	+3.2	58	15	2	22	39	0.53	-2.22	0.28	T.	4	14	6	11		S. W. Smith.
Chambersburg	Franklin	580	28	34.6	+1.7	56	18	10	22	34	0.97	-1.65	0.54	0	5	16	8	7	sw.	William B. Spear.
Clearfield	Clearfield	1,120	18	34.0	+5.3	55	3	0	22	37	1.40	-1.69	0.40	T.	8	12	11	8	w.	E. W. Hess.
Coatesville	Chester	380	40	34.2	+1.2	60	18	8	22	32	1.51	-2.71	0.72	1.3	9	12	10	9	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	18	34.2	+2.3	57	18	6	22	31	0.75	-2.70	0.53	T.	6	13	4	14	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	40	31.8	+2.7	54	17	1	22	33	1.46	-1.80	0.98	T.	5	11	10	10	w.	T. B. Lloyd.
Ephrata	Lancaster	380	27	36.3	+5.0	56	17	13	22	32	0.76	-2.75	0.44	0.3	7	16	5	10	w.	Ira J. Keath.
Freeland	Luzerne	1,970	13	29.8		52	13	4	22	27	1.31		0.57	2.4	7	8	11	12	nw.	Theo. Reichmann.
George School	Bucks	190	21	36.8	+4.5	60	18	13	22	31	1.62	-2.19	0.58	2.0	8	12	9	10	w.	Prof. N. W. Swayne
Gettysburg	Adams	553	54	36.2	+4.5	56	18	13	22	30	1.08	-2.25	0.37	0	7	15	8	8	w.	Dr. Henry Stewart
Gordon	Schuylkill	840	24	32.8	+4.3	56	13	2	22	37	1.15	-3.12	0.45	1.0	7	17	5	9	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	4	29.1		53	18	0	22	31	1.46	-1.65	0.57	3.0	5	14	7	10	w.	Gustav Holtz.
Hamburg	Berks	535	35	34.4	+2.4	57	18	9	22	31	0.86	-2.99	0.40	T.	5	16	10	5	w.	State Sanatorium.
Hanover	York	600	24	38.0	+4.2	59	12	13	22	34	1.20	-2.18	0.42	T.	6	17	6	8	s.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	58	37.0	+4.3	58	17	16	22	28	0.62	-2.03	0.56	T.	3	11	10	10	w.	U. S. Weather Bureau.
Hawley	Wayne	900	9	32.0		54	18	4	22	38	0.97		0.74	2.0	4	11	8	12	n.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	13	37.4		55	18	19	22	22	1.28	-1.21	0.64	0.5	6	12	8	11		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	40	33.1	+1.6	54	18	5	22	39	1.28	-1.80	0.65	T.	6	13	11	7	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	17	35.4	+3.3	59	13	8	22	38	0.63	-2.24	0.45	0.9	4	8	12	11		John S. Madore.
Lancaster	Lancaster	255	40	34.8	+1.4	56	17	9	22	39	0.99	-2.42	0.55	1.0	5	22	4	5	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	30	32.7	+5.3	50	11	3	22	35	0.28	-1.85	0.18	T.	2	9	6	16		C. P. Darling.
Lebanon	Lebanon	469	87	35.5	+3.6	59	17	13	22	34	0.97	-2.65	0.42	T.	6	15	7	9	sw.	S. B. Benzing.
Lewisburg	Union	450	53	34.0	+5.0	55	19	9	22	34	0.43	-2.83	0.17	T.	5	11	9	11	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	38	35.0	+3.9	55	18	7	22	29	0.57	-2.52	0.22	T.	6	5	11	15	w.	Joseph Beaver.
Lykens	Dauphin	680	13	34.8	+4.1	57	13	3	22	40	0.78	-2.25	0.38	0	4	14	9	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	37	34.4	+3.9	58	18	5	22	39	0.70	-3.54	0.41	0.5	6	19	1	11	s.	R. K. Wintermute.
Mifflintown	Junia	445	24	33.5	+3.3	55	2	7	22	35	0.56	-2.52	0.28	T.	5	14	3	14	w.	Wellington Smith.
Montrose	Susquehanna	1,720	25	31.8	+6.2	54	18	1	22	31	0.57	-2.13	0.52	T.	2	11	6	14	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	24	29.5	+4.5	53	13	0	22	29	0.29	-3.54	0.10	1.0	5	14	10	7	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	16	33.6	+5.9	55	18	2	22	31	0.68	-2.34	0.41	T.	4	15	10	6	sw.	H. O. Hacker.
Narberth	Montgomery	300	9	36.1		59	18	14	22	30	1.98		0.51	4.9	10	16	5	10	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	39	34.2	+2.4	61	17	10	22	39	1.87		0.70	3.5	9	18	7	6	w.	North Springfield Water Co.
Palmerton	Carbon	398	11	34.7		59	17	8	22	33	0.40		0.14	0.6	5	5	10	16	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	57	40.8	+4.5	60	17	21	22	25	1.50	-1.93	0.39	3.2	7	10	8	13	nw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	4	40.3		60	17	20	22	24	1.99		0.44	5.0	10	14	6	11	w.	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	12	38.2	+3.2	59	17	19	22	25	1.98	-1.80	0.56	4.1	8	8	4	19	w.	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	3	39.4		62	17	22	22	27	1.40		0.53	0.4	6	17	3	11	sw.	Atlantic Refining Co.
Phoenixville	Chester	100	17																	North Springfield Water Co.
Quakertown	Bucks	496	43	34.4	+3.3	58	18	9	22	33	1.44	-2.10	0.51	0.3	7	13	7	11	nw.	John E. Benner.
Reading	Berks	325	58	38.1	+5.9	59	17	18	22	28	0.76	-2.56	0.36	0.5	7	11	8	12	w.	U. S. Weather Bureau.
Scranton	Lackawanna	805	33	35.2	+4.5	58	17	12	22	27	0.49	-2.12	0.34	0.4	7	6	7	18	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	38	34.6	+3.2	57	18	9	22	35	0.66	-2.55	0.28	0	5	19	5	7	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	32	36.8		60	18	16	22	26	2.03	-1.86	0.47	6.0	10	8	12	11	nw.	W. S. Guiles.
State College	Center	1,217	43	33.5	+3.9	52	13	7	22	31	0.58	-2.13	0.28	T.	3	9	14	8	w.	C. A. Kern.
Stroudsburg	Monroe	500	12	33.4	+4.0	59	17	6	22	35	1.49	-2.23	0.85	1.0	5	13	6	12	w.	State Normal School.
Towanda	Bradford	754	33	33.4	+4.8	56	18	8	22	32	0.32	-2.05	0.17	T.	2	6	10	15	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	62	31.8	+3.6	51	18	4	22	31	0.86	-2.24	0.20	T.	3	21	5	5	w.	George W. Hill.
West Chester	Chester	455	90	37.6	+4.6	58	17	15	22	26	1.66	-2.43	0.50	2.0	7	14	8	9	nw.	Joseph W. Belt.
Williamsport	Lycoming	521	41	34.2	+3.7	57	18	10	22	32	0.63	-2.42	0.49	T.	5	11	10	10	w.	Miss Veronica E. April.
York	York	400	40	35.4	+2.6	58	17	10	22	34	0.92	-2.22	0.57	T.	5	16	8	7	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	35	35.0	+1.8	57	3	8	22	32	1.79	-0.93	0.56	0.5	10	7	9	15	sw.	U. S. Engineer.
Bradford	McKean	1,460	13																	Bradford Electric Co.
Brookville	Jefferson	1,173	37	30.2	+2.3	54	3	-2	21	37	1.43	-1.40	0.50	T.	5	20	5	6		John Fawcett.
Butler	Butler	1,152	3	33.2		60	13	3	22	41	0.49		0.37	1.0	3	24	2	5	n.	William C. Faust.
Claysville	Washington	1,150	24	36.2	+4.3	63	13	7	22	37	1.56	-1.39	0.62	T.	7	18	3	10	n.	J. L. Melvin.
Corry	Erie	1,430	16			50	18	2	22	32	1.14	-2.42	0.50	4.8	9	6	5	20		Ass'd Gas & Electric Co.
Coudersport	Potter	1,765	4	30.8		53	18	1	22	32	0.86		0.45	1.1	7	6	19	6	w.	West Penn. Power Co.
Derry	Westmoreland	1																		

Daily Precipitation for December, 1928																																	
Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.69			.04	.03				.03					.21	.11		.22											.30			1.42	
Altoona	Juniata	.08				.13									.21	.04		.22												.01		0.69	
Ansonia|||	W. Br. Susq.	.58			T.	.09	T.	T.		T.								.33	T.				T.								T.	T.	1.00
Arendtsville|||	Lower Susq.	.72				.02											.61		.17													1.52	
Baker's Summit.	Juniata														.45	.41																0.86	
Bellefonte**	W. Br. Susq.			T.	T.	.04									.17	T.	.18	T.			T.	T.							T.	T.	T.	0.39	
Bethlehem	Lehigh	.43				.05			T.	.03					.09	.01		.01	.23										T.	T.			0.87
Blossersville||	Lower Susq.														.48	T.			.20													0.68	
Carlisle	Lower Susq.	.06													.36	.22	T.	.03	.10											T.		0.77	
Catawissa||	N. Br. Susq.					.03				.01					.11	T.		.18														0.33	
Center Hall	Susquehanna														.12	.28	.01	.12	T.													0.53	
Chambersburg	Potomac	.02				T.									.54	.22		.04	.15													0.97	
Clearfield	W. Br. Susq.	.08		.04	.40				T.						.21	.06	T.	.20	.36	.05			T.	T.						T.	T.	1.40	
Coatesville	Lower Del.	.03				.13			.05	.08					.69	.03		.30											.18	.02		1.51	
Colebrook	Lower Susq.	T.				.01				T.					.51	.02		.08	.11										.02	T.	T.	0.75	
Conshohocken.	Schuylkill					.12			.90	.08					.28	.10		.13	.25										.27	.03		2.16	
Cresson||	Juniata	.14													.29			.10	.07												.16	0.76	
Doylestown	Lower Del.	.14		T.		.15				.19					.09			.03	.29										T.	.28		1.17	
Driftwood|||	W. Br. Susq.	.80	T.		.04	.20	.05									.05		.02	.30													1.46	
Emporium.	do.	.06		T.		.30	T.								.12	T.		.28	.70	T.	T.									T.		1.46	
Ephrata	Lower Susq.	.07				T.			T.	.04					.44	.05		.01	.10										.05			0.76	
Forest City	N. Br. Susq.	.41								.13					T.		T.	.04	.15	T.										.11	.02	0.73	
Freeland|||	Lehigh	.57				.02				.13					.08	.07	.03	T.	.41										.08		T.	1.31	
George School.	Lower Del.	.27				.18			.10	.15					.08			.05	.58			T.							.21			1.62	
Gettysburg	Potomac	.12		.12		.01									.37	.33	T.	.03	.09													1.08	
Girdaville||	Lower Susq.					.03			.01	.01					.21	.01		.18	.20									.04				0.69	
Gordon	Lower Susq.	.45				T.				.10					.15	.10	.01	T.	.30											.04		1.15	
Gouldsboro||	Lehigh	.46								.10							.15		.57											.18		1.46	
Graterford.	Schuylkill	.12				.09			.05						.21	.04		T.	.31											.03	.06	0.91	
Hamburg	Schuylkill					.16			T.						.16			.02	.40											.12		0.86	
Hanover	Lower Susq.	.16				.01			T.						.42	.41		.05	.15													1.20	
Harrisburg***	do.					T.									.56	T.		.04	.02			T.										0.62	
Harrisburg East.	do.	.05			.01										.56	.02		.03	.05										T.		T.	0.72	
Harrisburg North.	do.	.04													.53			.13														0.70	
Hawley|||	Upper Del.	.74							.01		T.					T.		.15	T.											.07		T.	0.97
Hollisterville.	Upper Del.	.62				.02	T.			.06						.02	T.		.32			T.								.13		1.17	
Holtwood||	Lower Susq.	.39		T.		.08				.01					T.	.64		.12												.04		1.28	
Huntingdon.	Juniata	.65		.01		T.			T.						.35	.05	T.	.04	.18												T.	1.28	
Hyndman	Potomac	.03				T.									.45			.09														0.63	
Lakeville|||	Upper Del.	.83								.03						T.		.20												.10		1.16	
Lancaster	Lower Susq.					.05				.10					.55			.17												.12		0.99	
Lansford|||	Lehigh	.49				.01				.20						.07		.49												.07		1.33	
Lawrenceville.	N. Br. Susq.	.18		T.		T.									T.			T.	.10			T.	T.									0.28	
Lebanon	Lower Susq.				.02	T.			.02	T.					.42			.29											.02			.20	0.97
Lewisburg	W. Br. Susq.	.17													.05	.04		.03	.14													0.43	
Lloyd	do.																																
Lock Haven.	do.	.22		.02		.05									T.	.06		.01	.21			T.											0.57
Lykens.	Susquehanna														.30	.08		.02	.38													0.78	
Mauch Chunk.	Lehigh				.02				.05						.10			.20	.21										.12			0.70	
Mifflintown.	Juniata	.16													.20	.08		.03	.09												T.	0.56	
Montrose.	N. Br. Susq.	.52																T.	.05												T.	0.57	
Morris Run.	N. Br. Susq.			.05		.03	T.								T.			.03	.20			T.										0.31	
Mount Pocono.	Upper Del.				.06					.03							.10	.04											.06	T.	T.	0.29	
Muncy Valley.	W. Br. Susq.	.41				.12									.07	T.		.08														T.	0.68
Narberth.	Lower Del.	.11		T.		.18			.17	.21					.44	.07		.03	.48										.25	.04		1.98	
Neshaminy|||	Lower Del.	.70			.03	.05	.07		.10	.11						.15			.45			T.							.21			1.87	
New Park.	Lower Susq.					.09			.05						.55	.25			.09										.06			1.09	
Palmerton||	Lehigh					.01			.02									.10	.14										.13			T.	0.40
Faupack|||	Upper Del.	.44				.01				.03						.03			.27											.11			0.89
Philadelphia***	Lower Del.					.17		T.	.27	.06					.39			.17	.16														

Daily Precipitation for December, 1928—Continued from page 58

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio	.52				.24			.01						.12	.27	.01	.03	.56		.01	.02											1.79	
Beaver Falls|||	Beaver	.50	.01			.25			T.	T.					.10	.24		.04	.41	T.	T.												1.55	
Bradford	Allegheny														.35																		1.43	
Brookville	do				.25	.25									.07			T.	.50	.08													0.49	
Butler	Ohio					.37									.62	.02		.09	.40		.05								.04	.01	T.		1.56	
Claysville	do					.38																												
Cloett	Allegheny			.03	.12	.13									.08				.27														0.63	
Clymer††	Conemaugh	.14		T.		.20									.26	.06		.05	.22		T.										.03		0.96	
Confluence|||	Youghiogheny	.53				.17									.17	.80			.35													.08	2.13	
Coraopolis|||	Ohio	.49				.40	T.		T.	T.					.10	.41	T.	T.	.45	T.	T.	T.								.01	T.	.05	1.86	
Corry	Allegheny	.08	.01	.06		.20			.10						.01	.01	.01	.08		.10	.03											.05	T.	1.14
Coudersport	do				.20										.01	.01	.01	.08	.45												.01		0.86	
Creekside	Allegheny			.04		.23									.38				.21		T.										.06		0.91	
Derry	Conemaugh				.19				T.						.80	.08		.06	.20		T.										.05		1.38	
Donora|||	Monongahela	.23			.15				T.	T.					.15	1.00		.02	.90		T.	T.								.03	T.		2.48	
Ebensburg	Conemaugh				.15										.28	.10		.03	.26		T.												0.82	
Elk Lick	Youghiogheny				.20										1.05	.12			.20										.10		.10		1.77	
Falls Creek	Allegheny	.15			.36										.15	.10	.03	.15	.45			.03											1.42	
Franklin|||	Allegheny	.66	.02		.03	.21	T.								.06	.33	.04	.07	.64		.02	.02											T.	2.10
Freeport|||	do	.50			.46										.08	.55	.01	.01	.39											.02			T.	2.02
Greensboro	Monongahela	.53			.06										.22	1.06		T.	.46												.11	.03	1.10	
Greensburg	Youghiogheny	T.			.15				T.	T.					.68	.22		.10	.17		T.								.04	T.	.03	T.	1.39	
Greenville	Beaver	.10	T.		.09				T.						.27	.02		.39	.23	T.		.02												1.12
Grove City	Beaver	.02			.17				.01						.41	.01	T.	.20	.32		.03	T.												1.17
Herr's Isl. Dam|||	Ohio	.51			.28										.06	.62		T.	.27												.01		1.75	
Ingram	Ohio	T.			.40				T.	T.					.65	.01		.24	.19		T.	.01								.02	T.		1.52	
Irwin	Youghiogheny				.17										.62	.16		.06	.10											.09	.02		1.22	
Johnstown	Conemaugh			T.	.20	.01			T.	T.					.50			.10	.32		.01	.01								.01	.08		1.24	
Kregar|||	Youghiogheny				.14										.08	.75	T.		.63		T.										.07		1.81	
Linesville||	Beaver																																	
Lock No. 4|||	Monongahela	.46			.18	T.									.18	.93	T.	.01	.27												.06	.03	T.	2.12
Lycippus	Conemaugh				.19				T.						.73	.22		.05	.02		T.										.17		1.38	
Meadville	Allegheny				T.										.21			.40	.41														1.02	
Mount Lebanon	Ohio				.29				T.						.10			.14	.30		T.												0.83	
New Castle|||	Beaver	.53	.01		.13				.02						.10	.31	.03	.08	.48	.01	.01									.03	.03	T.	1.77	
Newell	Monongahela				.17										.03	1.14	.07	.03												.04	.03		1.51	
Parkers Landing|||	Allegheny	.63			T.	.40	T.	T.							T.	.52	T.	.05	.72	T.	.05	T.									T.	T.	2.37	
Pennline|||††	Beaver	.51		.02		.05										.06		.04				.05											0.73	
Pittsburgh***	Ohio	T.			.08	.14			T.	T.					.70	T.	T.	.20	.04		.01									.01	T.	T.	T.	1.18
Ridgway	Allegheny	.10			.21	.10									.07	.01		.20	.30		.02	.10										.20	1.31	
Saltsburg|||	Conemaugh	.24			.23										.10	.50		.02	.28	T.													1.37	
Sharon|||	Beaver	.34		T.	.06	T.			T.	T.					.07	.20	T.	.07	.28		T.												1.02	
Somerset	Youghiogheny					T.				T.					.60	.30			.10		T.										T.	T.	1.00	
Springdale|||	Allegheny	.54			.35	.01									.07	.79	.01	.01	.15		T.	T.									.03		1.96	
Uniontown	Monongahela				.08				T.						.98	.13		.08	.43		T.									.17	.11		1.98	
Unity Reservoir††	Youghiogheny				.18	T.			T.						.70	.21		.06	.24		T.									.07	.03	.05	T.	1.54
Vandergrift†	Conemaugh				.18	.10									.57	.01		.03	.02											.15			1.06	
Warren	Allegheny			.08	.04	.25	.05		.06						.08	.05	.04	.70	.22	.05	.04											.10		1.76
Washington†	Ohio																																	1.07
Westford|||	Beaver				.24	T.				T.					.20			.63	T.												.05	.02		2.03
West Newton|||	Youghiogheny	.45			.14										.27	.14	1.00	.02	.21														2.01	
Zelienople|||	Ohio	.36			.56														.53															
Lake Drainage.																																		
Erie***	Lake Erie	T.		T.	.03	.12	T.	T.	.12									.24	.06	T.	.04	.04												0.66

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for December, 1928

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum.....	46	46	42	50	48	38	37	37	33	39	48	58	51	43	47	50	60	44	45	39	31	31	36	46	51	46	40	46	42	38	40	43.5
Altoona.....	Minimum.....	40	33	33	34	25	21	23	24	21	22	24	25	29	33	35	38	40	27	28	21	14	15	16	21	23	26	26	28	30	25	28	26.7
Beaver Dam.....	Maximum.....	51	52	53	50	43	29	39	38	29	36	48	55	40	40	49	47	52	42	42	39	32	28	37	44	46	42	40	43	28	36	41.9	
Bellefonte.....	Minimum.....	35	35	31	34	26	19	19	20	18	19	28	23	30	33	37	39	38	28	23	27	8	6	11	12	25	23	26	31	28	16	24.8	
Brookville.....	Maximum.....	55	53	57	50	44	32	39	38	33	41	50	44	42	45	45	51	58	54	42	41	34	31	35	49	49	50	47	42	33	44	44.2	
Butler.....	Minimum.....	38	30	30	37	29	15	18	28	22	15	18	22	29	33	38	40	40	29	28	30	9	8	16	17	20	21	29	34	30	27	22	25.9
Carlisle.....	Maximum.....	44	48	50	45	45	30	38	34	32	36	49	44	54	42	43	48	54	47	44	38	25	23	41	46	47	46	41	41	38	31	41	41.5
Catawissa.....	Minimum.....	36	33	33	37	25	15	14	16	14	12	20	16	26	28	37	39	37	27	25	25	12	5	11	11	17	24	27	27	29	21	16	23.1
Chambersburg.....	Maximum.....	37	47	54	44	42	28	35	34	31	34	45	49	52	43	44	46	53	34	39	34	22	28	44	46	46	45	42	37	35	30	44	40.1
Clearfield.....	Minimum.....	34	25	25	35	23	11	10	19	10	7	10	12	25	32	36	35	33	29	26	12	-2	-2	14	17	14	22	28	29	24	21	15	20.3
Coatesville.....	Maximum.....	42	56	56	54	44	30	36	32	36	45	50	56	60	56	50	45	50	54	40	40	82	28	35	48	45	48	42	38	49	45	41	44.6
Corry.....	Minimum.....	28	32	32	30	26	18	18	18	12	16	16	15	28	36	28	26	26	27	26	26	9	3	9	12	18	12	26	30	30	21	25	21.9
Emporium.....	Maximum.....	49	57	51	49	43	35	36	41	37	41	52	51	54	47	42	48	55	58	47	41	33	30	39	44	50	51	48	51	48	38	41	45.5
Franklin.....	Minimum.....	39	34	27	30	33	19	15	22	21	23	20	19	25	28	36	41	37	35	20	23	22	10	13	12	16	21	26	30	25	28	20	24.8
Greensburg.....	Maximum.....	44	50	49	49	45	40	39	39	35	39	46	45	48	42	41	49	60	44	46	39	30	38	40	45	50	55	53	46	44	39	42	43.4
Harrisburg.....	Minimum.....	40	36	33	29	33	15	13	15	14	15	14	20	17	24	29	34	36	39	34	25	10	15	6	10	9	12	22	25	26	27	17	23.5
Hawley.....	Maximum.....	52	52	53	48	45	35	38	40	37	42	50	53	58	42	51	46	56	56	44	38	39	30	40	41	51	46	38	50	48	40	41	44.3
Huntingdon.....	Minimum.....	39	33	27	32	32	19	16	23	21	20	18	19	25	28	35	40	40	33	25	17	10	14	17	17	21	22	27	27	29	20	24.9	
Johnstown.....	Maximum.....	50	57	58	51	49	35	42	35	33	42	47	53	63	53	49	53	56	56	43	40	33	37	50	50	49	51	45	45	43	38	49	46.8
Lancaster.....	Minimum.....	36	24	32	30	30	11	19	27	20	14	19	19	26	39	41	42	43	27	25	29	8	7	15	18	25	20	36	32	29	28	27	25.6
Lebanon.....	Maximum.....	50	50	55	49	47	44	33	32	36	35	50	51	53	54	49	48	50	54	49	38	35	47	49	49	44	49	40	38	33	42	44.7	
Lykens.....	Minimum.....	36	35	26	33	31	21	14	15	21	10	20	18	17	30	38	40	35	28	25	34	9	0	11	12	16	21	24	33	30	24	18	23.3
Mechanicville.....	Maximum.....	56	49	52	48	48	35	36	36	38	37	46	51	38	42	50	52	59	60	43	41	41	27	36	43	48	42	40	46	42	38	40	43.9
Montrose.....	Minimum.....	38	31	24	29	28	18	15	26	24	21	20	21	28	26	37	42	43	28	20	25	20	8	11	14	20	25	32	25	23	16	24.5	
Muncy Valley.....	Maximum.....	49	50	45	44	43	37	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Philadelphia.....	Minimum.....	32	32	29	34	22	18	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Pittsburgh.....	Maximum.....	46	43	51	43	42	30	35	32	30	32	43	40	48	45	45	43	54	54	38	35	28	26	39	42	44	45	42	39	38	31	39	40.1
Reading.....	Minimum.....	36	30	25	38	27	16	14	20	18	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ridgway.....	Maximum.....	41	41	50	43	39	29	33	35	32	35	47	44	57	48	45	49	53	46	45	39	27	28	44	46	40	47	43	40	38	30	37	40.4
Scranton.....	Minimum.....	37	36	38	38	25	23	27	26	23	25	30	31	40	39	38	43	36	27	18	15	15	24	29	36	30	37	34	27	25	28	25	30.4
Shillington.....	Maximum.....	48	46	52	43	39	34	35	32	35	39	49	41	57	43	44	48	52	46	39	33	25	29	46	51	43	48	41	40	38	30	37	41.6
Stroudsburg.....	Minimum.....	36	35	29	35	35	21	20	21	21	14	16	16	19	31	36	38	30	29	26	28	9	4	5	16	16	20	19	28	29	24	17	23.6
Towanda.....	Maximum.....	44	40	42	42	37	26	32	29	26	30	36	45	52	45	52	45	52	45	44	38	30	23	33	38	40	38	36	38	35	29	32	37.2
Uniontown.....	Minimum.....	33	31	28	32	26	14	14	14	14	8	21	25	28	34	34	36	36	32	19	25	8	4	11	21	25	20	22	27	26	19	14	22.5
Vandergrift.....	Maximum.....	51	53	51	51	47	35	39	39	37	40	51	52	52	45	44	52	55	56	45	40	37	31	39	43	50	44	38	50	46	40	41	45.0
Warren.....	Minimum.....	42	33	30	36	35	19	18	29	22	25	21	23	29	32	38	42	39	34	27	19	13	16	16	21	23	29	29	33	27	21	27.3	
Wellsboro.....	Maximum.....	52	54	57	49	45	31	41	34	31	39	49	53	62	51	47	51	57	53	42	38	32	35	47	49	47	41	40	32	46	40	32	45.2
Williamsport.....	Minimum.....	36	33	37	33	27	17	21	26	19	23	33	37	46	46	45	45	50	29	30	32	11	12	20	25	31	23	34	33	30	25	30.0	
York.....	Maximum.....	51	47	53	42	42	42	41	33	33	42	48	52	60	58	51	52	55	51	40	37	31	28	45	48	46	47	41	39	39	34	44	43.8
	Minimum.....	36	34	36	34	22	24	20	22	20	16	19	19	25	28	28	30	22	25	25	9	6	16	16	23	18	32	31	28	24	28	24	24.1
	Maximum.....	44	44	43	42	35	26	32	29	26	30	36	45	52	45	52	45	52	45	44	38	30	23	33	38	40	38	36	38	35	29	32	37.2
	Minimum.....	33	31	28	32	26	14	14	14	14	8	21	25	28	34	34	36	36	32	19	25	8	4	11	21	25	20	22	27	26	19	14	22.5
	Maximum.....	51	53	51	51	47	35	39	39	37	40	51	52	52	45	44	52	55	56	45	40	37	31	39	43	50	44	38	50	46	40	41	45.0
	Minimum.....	42	33	30	36	35	19	18	29	22	25	21	23	29	32	38	42	39	34	27	19	13	16	16	21	23	29	29	33	27	21	27.3	
	Maximum.....	52	54	57	49	45	31	41	34	31	39	49	53	62	51	47	51	57	53	42	38	32	35	47	49	47	41	40	32	46	40	32	45.2
	Minimum.....	36	33	37	33	27	17	21	26	19	23	33	37	46	46	45	45	50	29	30	32	11	12	20	25	31	23	34	33	30	25	30.0	
	Maximum.....	51	47	53	42	42	41	33	33	32	48	52	60	58	51	52	55	51	40	37	31	28	45	48	46	47	41	39	39	34	44	43.8	
	Minimum.....	36	34	36	34	22	24	20	22	20	16	19	19	25	28	28	30	22	25	25	9	6	16	16	23	18	32	31	28	24	28	24	24.1
	Maximum.....	44	44	43	42	35	26	32	29	26	30	36	45	52	45	52	45	52	45	44	38	30	23	33	38	40	38	36	38	35	29	32	37.2
	Minimum.....	33	31	28	32	26	14	14	14	14	8	21	25	28	34	34</																	



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIII. ANNUAL SUMMARY, 1928. No. 13.

GENERAL SUMMARY.

Temperatures and precipitation for the year 1928 averaged near the normal although there were some fairly large monthly departures. January and February were comparatively mild with less than the normal amount of snowfall. The chief wheat growing regions of the State were bare of snow a large part of the time. This condition resulted in some damage to the wheat, especially in the western part of the State. March temperatures were mostly seasonable, while the snowfall was more than double the March normal. Most of the snow fell during an unusually heavy storm on the 17-18th. April was unseasonably cold, the last three weeks being so cold and wet that vegetation was slow in starting and field work was badly delayed. Heavy snow fell over the greater portion of the State on the 27-28th, and although it melted quickly it cooled the soil to such an extent that early planted garden seeds rotted instead of germinating. Fruit trees remained dormant longer than usual, and generally escaped frost damage. May was more favorable than April, although it was a little too cool for the best results. The soil dried out to a workable condition early in the month, and field work made good progress. Vegetation was generally doing well at the close of the month. June was cool and very rainy, the rainfall being the heaviest for any June on record. The rains made field work impossible the latter part of the month, and with the deficiency in temperature they were harmful rather than helpful to the crops. Higher temperatures prevailed in July and August, while the rainfall continued generally above the normal. This condition resulted in a better growth of crops, although it was not favorable in all respects. Damaging local storms were more numerous than usual in July, especially in the central and western portions of the State. Field work was delayed to some extent, and there were considerable losses of grain and hay in the fields due to damage by heavy rains. However, the yields of hay were so large that the losses did not reduce the supply below the normal. The conditions were especially favorable for potatoes and for truck crops. Orchard fruits did not fare so well. Apples fell from the trees more than usual, while the keeping qualities of the peach crop were seriously impaired. September was decidedly cool and dry. Frosts or freezing temperatures covered more than one-half of the State, and damaged or killed tender vegetation. About one-half of the monthly rainfall occurred on the 19-20th, during the passage of a tropical storm when much corn was beaten down by high winds and rain, and much fruit was blown from the trees, while the remainder of the tomato crop was ruined. October was a fine and pleasant month with temperatures mostly above the normal. Field work of all kinds made excellent progress. Wheat seeding and silo filling were finished early in the month, and corn husking was in full swing during the latter half of the month. An exceptionally large crop of late potatoes was gathered during the month. The temperature continued above the normal in November with more cloudiness but less rainfall than usual. High temperatures during the third week broke up with severe local storms that did serious damage in many localities. December was abnormally warm and dry, while the snowfall was the least for any December during the last 40 years. The month was free from severe or damaging storms.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature		Precipitation		Year	Temperature		Precipitation	
	Highest	Lowest	Greatest total	Least total		Highest	Lowest	Greatest total	Least total
1888.....	100	-31	.....	.....	1909.....	100	-19	48.79	27.91
1889.....	96	-27	.....	.....	1910.....	99	-22	51.45	31.08
1890.....	101	-18	.....	.....	1911.....	105	-18	67.61	29.25
1891.....	100	-14	64.00	32.21	1912.....	100	-35	60.95	33.08
1892.....	103	-28	54.63	32.07	1913.....	102	-9	56.06	32.48
1893.....	102	-25	58.56	30.62	1914.....	101	-28	54.33	28.83
1894.....	103	-28	57.43	28.17	1915.....	99	-26	61.96	33.40
1895.....	104	-26	40.80	21.17	1916.....	103	-31	58.50	31.05
1896.....	101	-21	53.52	32.29	1917.....	105	-29	62.68	23.56
1897.....	103	-25	55.16	19.83	1918.....	108	-34	60.60	29.97
1898.....	107	-16	56.95	34.07	1919.....	104	-23	58.30	31.55
1899.....	101	-39	51.13	23.36	1920.....	99	-21	58.70	26.27
1900.....	104	-23	55.68	25.73	1921.....	104	-15	62.91	30.08
1901.....	107	-22	56.83	29.81	1922.....	100	-19	50.96	26.27
1902.....	100	-24	65.05	29.79	1923.....	103	-20	52.84	23.75
1903.....	99	-17	57.16	35.90	1924.....	102	-25	55.80	30.21
1904.....	99	-42	56.72	31.05	1925.....	104	-29	55.47	25.95
1905.....	99	-25	59.38	33.53	1926.....	105	-20	57.03	30.06
1906.....	99	-21	61.56	32.55	1927.....	100	-24	63.93	32.88
1907.....	98	-23	64.05	31.79	1928.....	99	-23	54.42	29.52
1908.....	104	-29	50.26	26.72					

MONTHLY STATE DATA FOR 1928

Month	Temperature					Precipitation				
	Mean	Highest sta. mean	Lowest sta. mean	Highest	Lowest	Average	Greatest	Least	Greatest in 24 hrs.	Average snow
January.....	29.8	35.6	23.5	65	-23	2.08	4.48	0.78	2.00	6.8
February.....	30.3	35.5	23.1	65	-11	3.42	5.89	1.62	2.25	6.7
March.....	37.0	42.0	28.6	82	-3	3.24	5.45	1.65	2.11	14.5
April.....	46.0	50.6	39.8	88	11	5.50	9.82	2.11	4.08	6.5
May.....	58.0	62.4	50.7	95	20	2.23	5.10	0.65	3.00	0
June.....	65.5	70.6	58.8	98	30	7.96	13.14	3.96	4.80	0
July.....	72.8	77.6	65.8	96	40	5.44	11.81	2.37	4.68	0
August.....	73.4	77.8	67.6	99	35	4.60	10.87	1.32	5.28	0
September.....	60.4	65.6	54.6	94	25	2.33	5.73	0.71	1.72	0.1
October.....	55.1	59.9	48.6	91	15	1.78	5.24	0.43	2.00	2.3
November.....	43.4	49.0	37.3	81	4	2.32	5.71	1.05	1.50	0.9
December.....	34.4	40.8	28.6	68	-2	1.16	2.57	0.28	1.15	0.9
Year.....	50.5	77.8	23.1	99	-23	42.06	13.14	0.28	5.28	37.8

KILLING FROSTS OR FREEZING TEMPERATURE

Stations			Stations		
Last in spring	First in autumn		Last in spring	First in autumn	
Allentown.....	Apr. 17	Oct. 26	Lancaster.....	May 14	Oct. 26
Altoona.....	do. 29	do. 27	Lawrenceville.....	do. 25	Sept. 25
Beaver Dam.....	May 14	do. 27	Lebanon.....	Apr. 18	Oct. 26
Bethlehem.....	Apr. 18	do. 27	Lewisburg.....	May 14	do. 26
Bradford.....	June 11	Sept. 25	Lock Haven.....	do. 13	do. 26
Brookville.....	do. 11	do. 24	Lycippus.....	do. 13	do. 27
Butler.....	May 15	do. 24	Lykens.....	do. 25	Sept. 24
Carlisle.....	Apr. 28	Oct. 26	Mauch Chunk.....	do. 15	do. 27
Catawissa.....	May 14	Sept. 25	Meadville.....		Oct. 8
Center Hall.....	do. 13	do. 25	Millintown.....	May 14	Sept. 27
Chambersburg.....	do. 14	do. 27	Montrose.....	do. 25	do. 24
Claysville.....	do. 14	do. 25	Mount Pocono.....	do. 9	do. 25
Clearfield.....	do. 24	do. 20	Muncy Valley.....	do. 25	do. 24
Coatesville.....	do. 15	do. 27	Narberth.....		Oct. 27
Colebrook.....	Apr. 29	Oct. 26	Neshaminy Falls.....	May 14	do. 27
Corry.....	May 25	do. 1	New Castle.....	do. 14	do. 26
Derry.....	do. 14	Sept. 27	Newell.....	do. 14	Sept. 26
Ebensburg.....	do. 24	Oct. 26	Palmerton.....	do. 14	Oct. 8
Elk Lick.....	do. 24	Sept. 24	Philadelphia.....	Apr. 16	Nov. 25
Emporium.....	do. 24	do. 25	Phoenixville.....	May 10	Oct. 27
Ephrata.....	Apr. 18	Oct. 26	Pittsburgh.....	Apr. 28	do. 30
Erie.....	do. 25	do. 27	Quakertown.....	May 14	Sept. 27
Franklin.....	May 24	Sept. 26	Reading.....	Apr. 28	Oct. 27
Freeland.....	do. 13	do. 26	Ridgway.....	June 11	Sept. 25
George School.....	Apr. 18	Oct. 27	Seranton.....	Apr. 21	Oct. 15
Gettysburg.....	do. 28	do. 26	Selinsgrove.....	May 14	Sept. 24
Gordon.....	May 25	Sept. 24	Sharon.....	do. 14	Oct. 26
Gouldsboro.....	do. 25	do. 24	Shawmont.....	Apr. 13	do. 27
Greensburg.....	do. 13	do. 26	Somerset.....	May 24	Sept. 24
Greenville.....	do. 14	do. 26	State College.....	Apr. 29	Oct. 8
Grove City.....	May 26	Oct. 26	Stroudsburg.....	May 25	Sept. 25
Hamburg.....	do. 14	Sept. 26	Towanda.....	do. 15	do. 25
Hanover.....	Apr. 18	Oct. 26	Uniontown.....	do. 13	Oct. 27
Harrisburg.....	do. 16	do. 27	Vandergrift.....	do. 14	do. 26
Hawley.....	May 25	Sept. 25	Warren.....	do. 24	do. 26
Holtwood.....	Apr. 18	Oct. 27	Wellsboro.....	June 12	Sept. 25
Huntingdon.....	May 14	Sept. 25	West Chester.....	Apr. 22	Oct. 27
Hyndman.....	do. 14	do. 27	Williamsport.....	do. 21	do. 26
Johnstown.....	do. 14	Oct. 27	York.....	May 14	do. 25

Climatological Data for the Year 1928

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)							Total snowfall (unmelted)	Number days with .01 or more	Sky			Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Number clear days			Number partly cloudy days	Number cloudy days		
Atlantic Drainage.																					
Allentown.....	Lehigh.....	254	16	51.2	95	Aug. 4	-5	Jan. 30	17	45.32	9.95	Aug.	0.62	Oct.	27.9	118	175	140	51	sw.	
Altoona.....	Blair.....	1,615	32	49.1	90	do. 9	-5	do. 30	41	42.66	8.82	June	0.69	Dec.	82.0	145	188	98	80	w.	
Arendtsville.....	Adams.....	700	6	51.4	96	do. 5	3	do. 30†	6	48.37	11.04	do.	0.85	Jan.	29.3	116	211	58	97	nw.	
Bethlehem.....	Northampton.....	364	25	53.2	93	July 8†	-3	do. 30	42	44.56	9.72	Aug.	0.87	Dec.	31.5	127	197	70	99	w.	
Carlisle.....	Cumberland.....	467	62	52.8	96	do. 11	-3	do. 30	40	46.12	8.32	June	0.54	Oct.	58.0	109	202	63	101	s.	
Catawissa.....	Columbia.....	520	32	50.7	97	Aug. 4†	-9	do. 30	32	36.29	7.29	do.	0.33	Dec.	29.5	112	218	43	105	.....
Center Hall.....	Center.....	1,272	32	47.8	93	July 8	-7	do. 30	32	34.10	6.62	Apr.	0.53	do.	68.0	103	212	69	85	.....
Chambersburg.....	Franklin.....	580	29	51.6	92	Aug. 9	-4	do. 30	28	41.86	9.82	June	0.97	do.	39.5	126	127	129	110	s.	
Clearfield.....	Clearfield.....	1,120	18	50.2	95	July 8	-8	do. 30	19	40.57	10.58	do.	0.96	Sept.	57.5	143	142	120	104	w.	
Coatesville.....	Chester.....	380	41	50.7	94	Aug. 4†	-7	do. 30	41	54.42	10.57	do.	0.65	Oct.	35.0	130	125	155	86	nw.	
Colebrook.....	Lebanon.....	560	13	50.6	93	do. 3†	-2	do. 30	19	40.73	6.89	do.	0.75	Dec.	38.2	129	181	54	131	w.	
Emporium.....	Cameron.....	1,050	41	47.4	89	July 9	-12	do. 30	41	47.89	8.39	do.	1.46	do.	27.7	123	142	104	120	w.	
Ephrata.....	Lancaster.....	380	28	52.3	93	do. 9†	-4	do. 30	28	40.56	9.43	do.	0.76	do.	28.8	129	161	75	130	w.	
Freeland.....	Luzerne.....	1,970	9	46.5	90	July 9†	-6	Feb. 26	13	50.44	10.34	June	1.31	Dec.	82.7	167	111	110	155	nw.	
George School.....	Bucks.....	190	22	53.0	95	Aug. 4†	-6	Jan. 30	22	40.54	6.21	July	1.48	Oct.	17.4	117	198	78	90	s.	
Gettysburg.....	Adams.....	600	53	53.2	93	do. 3†	7	do. 30	55	49.23	9.74	June	1.08	Dec.	23.8	134	143	112	111	w.	
Gordon.....	Schuylkill.....	840	25	49.2	92	do. 4	-16	do. 30	25	48.15	9.24	do.	1.15	do.	56.0	118	162	90	114	w.	
Gouldsboro.....	Wayne.....	1,875	5	44.5	89	do. 5	-23	do. 30	14	40.72	10.10	do.	1.24	Oct.	56.9	108	179	76	111	w.	
Hamburg.....	Berks.....	535	35	50.7	94	do. 4	-8	do. 30	35	40.38	8.53	do.	0.43	do.	20.5	109	152	132	82	w.	
Harrisburg.....	Dauphin.....	361	41	52.8	94	July 8	6	do. 30	59	41.64	8.16	do.	0.62	Dec.	35.9	121	84	121	161	w.	
Hawley.....	Wayne.....	900	10	48.2	94	do. 8†	-13	do. 30	10	45.25	10.87	Aug.	0.74	do.	17.0	116	148	100	118	.....
Holtwood.....	Lancaster.....	200	9	53.4	95	Aug. 5†	2	do. 30	13	41.93	10.12	do.	0.74	do.	17.0	116	148	100	118	.....
Huntingdon.....	Huntingdon.....	650	41	50.9	95	do. 5	-7	do. 30	41	39.04	7.07	Apr.	0.92	May	37.1	139	137	92	137	w.	
Huntingdon.....	Bedford.....	977	16	52.0	95	July 11†	4	do. 2†	16	34.03	7.00	do.	0.63	Dec.	9.9	120	91	120	155	.....
Hyndman.....	Lancaster.....	255	26	51.7	97	Aug. 3	-10	do. 30	41	42.88	8.41	June	0.99	do.	30.2	104	228	81	57	w.	
Lancaster.....	Lancaster.....	255	26	51.7	97	Aug. 3	-10	do. 30	41	42.88	8.41	June	0.99	do.	30.2	104	228	81	57	w.	
Lawrenceville.....	Tioga.....	1,000	31	48.4	94	July 8†	-14	do. 30	31	29.52	6.02	do.	0.28	do.	40.0	92	161	82	123	.....
Lebanon.....	Lebanon.....	469	40	51.8	96	Aug. 5	-4	Jan. 30†	88	40.00	7.10	June	0.97	Dec.	.....	124	177	100	89	sw.
Lewisburg.....	Union.....	450	53	51.4	95	do. 3	-8	do. 30	54	38.23	7.98	do.	0.43	do.	45.2	125	136	109	121	w.	
Lock Haven.....	Clinton.....	580	40	52.2	98	do. 3	-4	do. 30	40	38.78	8.03	do.	0.57	do.	32.0	128	118	126	122	w.	
Lykens.....	Dauphin.....	680	14	51.4	96	do. 4	-10	do. 30	14	43.10	9.80	do.	0.78	do.	37.5	125	186	98	82	nw.	
Mauch Chunk.....	Carbon.....	600	39	49.9	98	do. 5	-10	do. 30	39	50.15	11.81	do.	0.70	do.	30.3	113	184	66	116	s.	
Mifflintown.....	Juniata.....	445	25	51.1	95	July 8	-4	do. 30	25	40.67	8.78	do.	0.56	do.	38.0	121	156	65	145	w.	
Montrose.....	Susquehanna.....	1,658	26	46.5	88	Aug. 4	-7	Feb. 26	25	49.46	9.90	do.	0.57	do.	62.0	120	126	97	143	w.	
Muncy Valley.....	Sullivan.....	1,045	17	48.1	93	do. 4	-4	Jan. 27	17	40.21	7.87	do.	0.68	do.	25.0	88	188	97	81	w.	
Neshaminy Falls.....	Bucks.....	60	14	51.0	95	do. 4	-13	do. 30	14	42.12	6.78	July	1.22	Oct.	16.3	128	197	72	97	w.	
Palmerton.....	Carbon.....	398	10	50.6	94	July 4†	-14	do. 30	12	35.52	7.49	June	0.40	Dec.	31.1	116	125	138	103	sw.	
Philadelphia.....	Philadelphia.....	114	57	55.4	95	Aug. 4	11	Feb. 26	57	39.37	6.77	do.	0.73	Oct.	18.4	117	102	125	139	sw.	
Philadelphia-Gtn.....	Philadelphia.....	113	4	55.4	96	do. 4	11	do. 26	4	41.58	6.44	do.	0.98	do.	24.1	120	146	116	104	.....
Phila. Navy Yard.....	Philadelphia.....	12	13	54.6	98	do. 4	11	do. 26	13	37.78	5.95	do.	1.34	do.	19.0	130	140	88	188	sw.	
Phoenixville.....	Chester.....	100	18	.....	99	Aug. 4	-10	Jan. 30	18	.....	5.28	Apr.	.....	.....	.....	131	143	106	117	s.
Quakertown.....	Bucks.....	496	42	51.1	95	do. 4†	-20	do. 30	44	50.02	11.81	July	0.84	Oct.	24.5	131	143	106	117	nw.	
Reading.....	Berks.....	325	51	53.4	94	do. 4	1	do. 30	59	42.86	6.18	June	0.76	Dec.	34.5	122	124	111	131	w.	
Scranton.....	Lackawanna.....	805	33	50.0	93	July 9	-5	Jan. 30	34	39.49	8.57	July	0.49	do.	25.3	141	77	103	186	s.	
Selinsgrove.....	Snyder.....	455	39	51.1	93	Aug. 5	-5	Jan. 30	40	35.70	7.77	June	0.66	Oct.	.....	109	169	76	121	sw.
Shawmont.....	Philadelphia.....	51	12	54.0	95	do. 4†	1	do. 30	33	45.74	7.84	do.	1.11	Oct.	.....	122	135	119	112	w.
State College.....	Center.....	1,217	41	49.2	91	July 9†	-3	do. 30	44	38.79	7.18	do.	0.58	Dec.	59.1	134	108	154	104	w.	
Stroudsburg.....	Monroe.....	500	13	48.8	95	Aug. 4	-14	do. 30	14	48.16	10.10	do.	0.46	Oct.	30.5	119	168	86	112	nw.	
Towanda.....	Bradford.....	754	34	48.5	92	July 8	-3	do. 30	34	32.32	8.46	do.	0.32	Dec.	33.9	127	127	93	146	s.	
Wellsboro.....	Tioga.....	1,419	49	46.4	93	do. 8	-13	do. 30	64	33.89	6.69	do.	0.36	do.	51.6	105	239	49	78	w.	
West Chester.....	Chester.....	455	90	52.6	93	Aug. 4	4	do. 30	96	.....	13.14	do.	.....	.....	.....	171	134	61	134	w.
Williamsport.....	Lycoming.....	521	39	50.9	95	July 8	-2	do. 30	42	45.14	8.60	do.	0.63	Oct.	33.8	134	145	96	125	sw.	
York.....	York.....	400	29	52.7	96	Aug. 5	-8	do. 30	41	42.85	8.34	do.	0.91	Dec.	29.6	123	176	116	77	e.	
Ohio Drainage.																					
Beaver Dam.....	Beaver.....	700	15	51.8	93	Aug. 10	3	Jan. 29	36	38.05	9.64	June	0.84	Sept.	.....	158	75	111	180	sw.
Brookville.....	Jefferson.....	1,173	37	45.9	93	do. 3	-13	do. 30	38	45.09	9.81	do.	1.43	Dec.	35.0	103	197	88	81	.....
Butler.....	Butler.....	1,152	3	.....	92	do. 9	-1	do. 31	3	.....	9.08	July	0.49	Jan.	21.7	88	182	58	126	w.
Claysville.....	Washington.....	1,150	25	52.3	97	do. 9	-1	do. 2†	25	43.09	9.41	do.	1.38	Jan.	29.1	151	171	57	138	n.	
Corry.....	Erie.....	1,430	17	.....	92	do. 15†	-13	do. 30	17	44.24	9.07	June	1.14	Dec.	82.3	183	104	97	165	.....
Derry.....	Westmoreland.....	1,172	32	50.3	92	July 8	-3	do. 30	32	43.60	7.82	do.	1.38	do.	.....	134	106</			

Monthly and Annual Precipitation for the Year 1928, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
DELAWARE BASIN.	Allentown.....	2.61	-1.04	4.19	+1.18	2.76	-1.22	5.34	+1.50	2.50	-1.12	5.49	+2.05	6.68	+1.63	9.95	+5.60	2.22	-1.13	0.62	-2.79	1.54	-0.86	1.42	-2.43	45.32	-1.37
	Bethlehem.....	3.15	-0.43	4.42	+0.93	3.32	-0.32	5.20	+2.05	2.55	-1.17	5.74	+1.57	5.39	+0.83	9.72	+5.40	2.21	-1.18	0.45	-2.78	1.54	-1.57	0.87	-2.63	44.56	+0.70
	Coatesville.....	3.73	-0.24	4.47	+0.37	2.84	-1.52	5.43	+1.80	2.37	-1.66	10.57	+6.53	7.24	+2.22	8.59	+4.16	4.80	+0.90	0.65	-2.87	2.22	-0.97	1.51	-2.71	54.42	+6.01
	Conshohocken.....	1.71	4.25	2.35	4.47	2.35	4.47	5.30	2.22	2.22	6.99	4.13	8.62	4.13	8.62	4.15	1.12	1.12	1.56	2.16	2.16	2.16	2.16	44.56	4.43	4.43	
	Doylestown.....	2.48	-1.18	4.58	+0.72	2.28	-1.79	5.61	+1.63	3.01	-1.00	5.22	+1.22	8.10	+3.24	5.24	-0.29	4.06	+0.11	1.49	-2.49	1.55	-1.75	1.17	-2.85	44.79	-4.43
	Freeland.....	3.64	4.50	4.47	4.47	6.94	2.63	10.34	2.63	10.34	2.63	10.34	2.63	10.34	2.63	10.34	2.63	2.31	1.89	2.31	1.89	2.15	1.31	2.15	50.44	1.30	
	George School.....	1.69	-1.38	3.74	+0.64	2.27	-1.19	5.66	+2.06	2.38	-1.23	5.37	+2.14	6.21	+1.83	4.54	-0.06	4.07	+1.05	1.45	-1.77	1.51	-1.20	1.62	-2.19	40.54	-1.30
	Gouldsboro.....	1.90	-1.34	3.13	-0.60	2.41	-0.85	3.30	-1.40	2.69	-1.36	10.10	+5.37	5.87	+0.20	3.74	-1.44	2.89	-0.43	1.24	-2.21	1.99	-0.84	1.46	-1.65	40.72	-6.55
	Graterford.....	2.04	4.01	2.46	2.46	5.82	3.70	10.34	3.70	10.34	3.70	10.34	3.70	10.34	3.70	10.34	3.70	3.30	1.21	3.30	1.21	1.90	0.91	1.90	43.70	8.92	
	Hamburg.....	2.90	-0.86	3.47	+0.08	2.30	-1.84	5.28	+1.02	2.50	-2.00	8.53	+4.31	4.71	0.00	4.47	-0.89	2.70	-1.50	0.43	-3.63	2.24	-0.62	0.86	-2.99	40.38	-8.92
Hawley.....	2.23	3.62	2.88	2.88	5.95	2.52	10.34	2.52	10.34	2.52	10.34	2.52	10.34	2.52	10.34	2.52	2.40	0.88	2.40	0.88	1.54	1.17	1.54	45.25	0.97		
Holisterville.....	1.96	2.67	3.20	3.20	5.22	2.87	10.34	2.87	10.34	2.87	10.34	2.87	10.34	2.87	10.34	2.87	2.29	0.60	2.29	0.60	1.53	1.16	1.53	47.68	1.16		
Lakeville.....	1.77	2.84	3.40	3.40	6.77	2.23	10.34	2.23	10.34	2.23	10.34	2.23	10.34	2.23	10.34	2.23	2.29	0.60	2.29	0.60	1.53	1.16	1.53	47.68	1.16		
Lansford.....	2.10	-1.28	3.16	+0.25	2.13	-1.38	5.31	+1.58	3.90	+0.45	11.06	+6.83	4.48	-0.18	4.10	-0.66	2.65	-1.17	1.10	-3.24	1.58	-0.73	1.83	-2.35	42.90	-1.88	
Mauch Chunk.....	2.83	-0.95	3.88	+0.01	3.49	-1.01	7.30	+3.38	1.74	-2.27	11.81	+7.51	6.82	+1.72	5.62	+0.65	3.02	-0.85	0.80	-2.96	2.14	-1.19	0.70	-3.54	50.15	+0.50	
Mount Pocono.....	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	
Narberth.....	1.94	3.80	2.48	2.48	5.15	2.73	10.34	2.73	10.34	2.73	10.34	2.73	10.34	2.73	10.34	2.73	3.62	1.22	3.62	1.22	1.49	1.87	1.49	42.12	1.87		
Neshaminy Falls.....	1.97	2.78	2.60	2.60	4.71	1.84	10.34	1.84	10.34	1.84	10.34	1.84	10.34	1.84	10.34	1.84	2.59	0.55	2.59	0.55	2.27	0.40	2.27	35.52	0.40		
Paupack.....	1.96	2.98	3.29	3.29	6.39	2.46	10.34	2.46	10.34	2.46	10.34	2.46	10.34	2.46	10.34	2.46	2.51	0.86	2.51	0.86	1.23	0.89	1.23	43.03	0.89		
Philadelphia.....	1.91	-1.39	4.00	+0.57	2.10	-1.29	5.55	+2.50	2.19	-1.07	6.77	+3.58	3.60	-0.55	5.47	+0.85	3.61	+0.47	0.73	-2.06	1.94	-0.76	1.50	-1.93	39.37	-1.15	
Philadelphia-Gtn.....	2.35	4.39	2.02	2.02	5.15	2.33	10.34	2.33	10.34	2.33	10.34	2.33	10.34	2.33	10.34	2.33	3.19	0.98	3.19	0.98	1.83	1.99	1.83	41.58	1.99		
Phila. Navy Yard.....	2.06	-1.17	4.03	+0.81	2.11	-1.21	4.85	+1.61	1.91	-1.40	5.95	+2.31	3.21	-2.17	5.18	+0.28	3.56	+0.49	1.34	-1.31	1.60	-0.88	1.98	-1.30	37.78	-3.94	
Phila-Point Breeze.....	2.33	3.88	1.95	1.95	5.46	2.98	10.34	2.98	10.34	2.98	10.34	2.98	10.34	2.98	10.34	2.98	3.63	0.71	3.63	0.71	2.43	1.40	2.43	37.78	1.40		
Phoenixville.....	2.64	-1.31	3.22	+0.01	2.79	-0.86	5.28	+1.79	2.98	-0.98	4.75	+1.09	4.45	-0.59	4.85	+0.33	4.62	+1.54	1.08	-1.72	1.57	-1.15	1.79	-2.42	44.23	-0.67	
Pleasant Mount.....	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	
Pottstown.....	2.54	-0.89	3.91	+0.38	2.51	-1.36	6.51	+3.30	3.28	-1.09	6.13	+1.32	6.38	+0.94	7.20	+3.27	3.06	-0.27	0.95	-2.14	1.51	-1.71	1.25	-2.42	44.23	-0.67	
Pottsville.....	2.43	-1.50	3.68	+0.13	4.07	-0.04	5.55	+1.89	2.36	-2.00	11.90	+7.62	3.89	-1.15	3.67	-1.59	2.43	-1.47	0.75	-3.28	2.47	-0.82	0.92	-3.12	44.12	-5.33	
Quakertown.....	2.81	-0.68	4.23	+0.47	3.35	-0.36	5.79	+2.66	3.65	-0.37	5.63	+1.97	11.81	+6.99	5.96	+1.67	2.81	-0.85	0.84	-2.53	1.70	-1.46	1.44	-2.10	50.02	+5.31	
Reading.....	3.10	-0.42	4.30	+0.67	2.92	-0.62	5.95	+2.73	2.76	-0.61	6.18	+2.51	5.04	-0.82	4.82	+0.34	3.19	-0.46	1.81	-1.45	2.03	-1.09	0.76	-2.56	42.86	-0.14	
Shawmont.....	2.66	-0.59	4.02	+0.84	2.60	-1.07	5.84	+2.67	1.83	-1.63	7.84	+4.37	5.31	+0.72	7.38	+2.25	3.63	+0.40	1.11	-2.23	1.49	-1.39	2.03	-1.86	45.74	+2.48	
Snow Hill.....	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	
Stroudsburg.....	2.26	-0.96	4.29	+1.30	2.74	-1.11	5.54	+1.76	1.81	-1.80	10.10	+5.91	7.38	+1.58	6.24	+0.93	3.33	+0.38	0.46	-3.64	2.52	-0.92	1.49	-2.23	48.16	+1.20	
West Chester.....	2.85	-0.99	3.10	-0.97	5.35	+1.57	3.21	-1.24	13.14	+8.95	4.47	-0.36	5.77	+1.09	4.83	+0.91	0.80	-2.94	2.12	-1.51	1.66	-2.43	1.66	-2.43	48.16	+1.20	
Westgrove.....	1.85	-0.65	3.61	+1.50	3.52	+0.82	7.53	+4.66	1.86	-2.16	8.82	+4.90	6.19	+2.92	2.55	-0.84	1.78	-1.00	1.87	-0.62	2.89	+0.48	0.69	-1.66	42.66	+8.35	
Altoona.....	1.22	-1.19	2.23	+0.30	1.65	-0.62	3.86	+0.22	1.79	-2.09	6.93	+2.78	4.98	+1.76	5.98	+2.63	1.63	-1.63	2.05	-1.16	1.79	+0.02	1.00	-0.88	35.06	+0.14	
Ansonia.....	0.85	3.31	2.93	2.93	6.75	3.34	11.04	3.34	11.04	3.34	11.04	3.34	11.04	3.34	11.04	3.34	3.85	2.46	3.85	2.46	1.90	1.52	1.90	48.37	1.52		
Baker's Summit.....	1.88	2.24	3.36	3.36	6.42	0.81	10.34	0.81	10.34	0.81	10.34	0.81	10.34	0.81	10.34	0.81	2.47	1.65	2.47	1.65	1.92	0.86	1.92	33.64	0.86		
Bellefonte.....	1.88	1.90	2.70	2.70	5.60	3.54	10.23	3.54	10.23	3.54	10.23	3.54	10.23	3.54	10.23	3.54	0.99	-2.80	1.26	-1.86	1.23	-0.93	0.39	-2.51	49.90	0.39	
Bloomsburg.....	1.87	-1.25	3.76	+0.79	3.84	+0.30	7.03	+3.70	3.90	+0.07	td																

Monthly and Annual Precipitation for the Year 1928, with Departures from the Normal.—Continued

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation.	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
Creekside.....	1.88	.....	5.39	.....	4.21	.....	5.75	.....	2.44	.....	9.64	.....	8.28	.....	5.19	.....	1.36	.....	2.66	.....	2.68	.....	0.91	.....	50.39	.....
Cresson.....	1.55	.....	3.59	.....	3.62	.....	8.50	.....	1.39	.....	6.70	.....	7.88	.....	2.82	.....	2.15	.....	1.55	.....	1.83	.....	0.76	.....	42.34	.....
Derry.....	2.23	-1.68	3.89	+0.90	3.63	-0.43	6.07	+2.35	2.09	-1.36	7.82	+2.97	4.83	0.00	5.43	+1.26	2.01	-0.74	2.01	-1.24	2.15	-0.42	1.38	-1.92	43.60	-0.31	
Donora.....	0.78	.....	2.93	.....	3.87	.....	5.53	.....	1.75	.....	5.78	.....	2.93	.....	2.77	.....	1.58	.....	1.65	.....	1.89	.....	2.48	.....	33.94	.....
Ebensburg.....	1.17	.....	3.11	.....	3.54	.....	6.94	.....	2.20	.....	8.63	.....	4.55	.....	3.30	.....	2.02	.....	1.73	.....	2.91	.....	0.82	.....	40.92	.....
Elk Lick.....	3.80	.....	3.00	.....	5.45	.....	7.23	.....	1.62	.....	9.66	.....	4.51	.....	3.08	.....	2.43	.....	2.30	.....	3.61	.....	1.77	.....	48.46	.....
Falls Creek.....	1.74	.....	4.13	.....	3.34	.....	5.22	.....	1.84	.....	8.91	.....	5.66	.....	4.29	.....	1.42	.....	2.36	.....	4.12	.....	1.42	.....	44.45	.....
Franklin.....	2.38	-1.24	2.55	-0.34	3.41	-0.04	3.28	+0.25	4.54	+1.05	5.79	+1.02	6.79	+2.31	5.03	+1.23	1.07	-2.42	4.08	+0.97	3.11	+0.10	2.10	-1.22	44.13	+1.67	
Freeport.....	1.28	-2.57	3.95	+0.79	4.04	+0.41	4.67	+1.35	2.40	-1.48	6.97	+2.71	8.16	+3.98	1.98	-1.74	1.29	-1.58	1.91	-0.98	2.40	-0.49	2.02	-1.36	41.07	-0.96	
Greensboro.....	0.78	.....	2.61	.....	3.81	.....	5.99	.....	1.90	.....	5.70	.....	4.45	.....	5.06	.....	1.91	.....	1.52	.....	1.84	.....	2.57	.....	38.04	.....
Greensburg.....	1.68	-2.07	3.37	+0.51	4.14	+1.34	5.92	+2.27	2.02	-1.71	7.36	+3.26	5.73	+1.94	5.25	+0.88	1.77	-1.43	1.85	-1.28	2.54	+0.58	1.39	-1.76	43.02	+2.53	
Greenville.....	2.07	-1.65	3.13	+0.54	3.17	-0.49	3.28	+0.01	2.52	-1.08	6.57	+2.36	6.62	+2.26	3.62	-0.14	1.16	-2.06	3.49	-0.16	4.18	+1.48	1.12	-1.87	40.93	-0.80	
Grove City.....	2.19	-1.33	3.59	+1.25	4.13	+1.10	2.87	-1.16	2.24	-1.56	7.56	+3.52	6.62	+2.40	3.92	+0.25	1.21	-1.87	4.55	+0.97	4.23	+2.09	1.17	-1.68	44.28	+3.98	
Herr's Island Dam.....	1.47	-1.58	3.15	+0.77	4.53	+1.03	4.42	+1.35	1.26	-1.56	7.77	+3.59	4.72	+1.25	2.79	-0.63	0.93	-1.43	1.42	-1.29	1.74	-0.03	1.75	-1.06	35.95	+0.41	
Ingram.....	1.51	.....	3.95	.....	5.06	.....	4.98	.....	1.49	.....	10.01	.....	5.36	.....	2.90	.....	1.31	.....	1.70	.....	2.55	.....	1.52	.....	42.34	.....
Irwin.....	1.20	-1.84	3.05	+0.80	3.48	-0.06	4.55	+1.20	2.54	-0.70	5.83	+1.18	4.78	+0.62	3.31	-0.76	1.45	-1.32	1.92	-0.91	2.05	-0.21	1.22	-1.73	35.38	-3.73	
Johnstown.....	2.39	-1.90	4.46	+0.71	4.82	+0.78	7.80	+3.84	1.66	-2.93	7.76	+2.57	7.06	.....	3.39	-1.16	2.03	-1.47	1.85	-1.14	4.03	+1.11	1.24	-2.41	.....	.....
Keglar.....	2.24	.....	4.19	.....	4.33	.....	6.98	.....	2.27	.....	7.21	.....	7.06	.....	2.97	.....	2.76	.....	1.76	.....	3.57	.....	1.81	.....	47.15	.....
Linesville.....	2.66	.....	2.84	.....	2.61	.....	2.76	.....	1.97	.....	7.46	.....	4.35	.....	2.55	.....	2.00	.....	4.29	.....	3.42	.....	.....	.....	.....	.....
Lock No. 4.....	1.63	-1.56	3.25	+0.52	3.90	+0.60	5.53	+2.36	1.52	-2.15	6.63	+2.62	4.84	+0.49	3.39	-0.23	1.75	-1.03	1.80	-0.96	2.01	-0.39	2.12	-0.77	38.37	-0.50	
Lycippus.....	1.75	-2.32	3.97	+0.93	4.90	+1.16	6.62	+2.84	2.81	-1.15	8.45	+3.96	6.45	+1.41	2.49	-1.82	2.19	-0.84	2.17	-0.88	3.40	+0.84	1.38	-2.31	46.58	+1.82	
Ohio Basin. - Cont.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meadville.....	.....	.....	.....	.....	.....	.....	4.45	.....	1.46	.....	9.78	.....	6.01	.....	3.13	.....	1.76	.....	4.34	.....	3.85	.....	1.02	.....	.....	.....
Mt. Lebanon.....	1.28	.....	3.66	.....	3.90	.....	2.68	-0.25	1.76	-1.54	8.55	+4.11	6.62	+2.48	5.07	+1.86	0.94	-2.20	3.84	+0.60	3.64	+1.48	1.77	-0.69	44.68	+8.09
New Castle.....	2.17	-0.74	3.73	+1.32	4.41	+1.66	4.68	.....	1.90	.....	5.62	.....	3.57	.....	2.95	.....	1.86	.....	1.85	.....	2.10	.....	1.51	.....	32.21	.....
Newell.....	1.08	.....	2.54	.....	3.05	.....	3.36	-0.20	2.01	-1.81	7.05	+2.71	6.91	+2.57	6.57	+2.40	0.98	-2.32	3.90	+1.02	2.81	-0.04	2.37	-0.81	46.77	+4.26
Parkers Landing.....	2.50	-0.91	4.20	+1.12	4.11	+0.53	2.99	.....	1.74	.....	6.71	.....	4.41	.....	2.46	.....	2.39	.....	3.91	.....	3.19	.....	0.73	.....	36.23	.....
Pennline.....	2.54	.....	2.79	.....	2.37	.....	2.11	.....	1.83	.....	8.29	.....	5.74	.....	7.51	.....	0.87	.....	2.59	.....	3.23	.....	1.02	.....	39.63	.....
Pittsburgh.....	1.30	-1.75	3.07	+0.37	4.25	+1.22	4.05	+1.13	1.09	-2.12	7.73	+3.92	4.93	+0.88	3.10	-0.13	1.02	-1.56	1.22	-1.30	1.91	-0.38	1.18	-1.68	34.85	-1.40	
Ridgway.....	1.64	-1.13	3.89	+1.50	2.32	-1.05	4.51	+1.65	1.74	-2.44	7.25	+2.82	5.49	+1.52	3.89	+0.45	1.69	-1.19	3.22	0.00	4.05	+1.41	1.31	-1.23	41.00	+2.31	
Saltsburg.....	1.75	-2.03	4.11	+1.12	2.83	-0.36	5.73	+2.40	1.53	-1.89	10.23	+6.21	4.98	+1.03	2.90	-1.00	1.52	-1.81	2.25	-0.92	2.09	-0.01	1.37	-1.93	41.29	+0.81	
Sharon.....	1.53	.....	2.74	.....	2.17	.....	2.11	.....	1.83	.....	8.29	.....	5.74	.....	7.51	.....	0.87	.....	2.59	.....	3.23	.....	1.02	.....	39.63	.....
Somerset.....	1.08	-3.68	2.64	-1.34	4.06	-0.28	9.82	+5.18	1.46	-3.56	6.35	+1.21	4.97	+0.53	4.25	-0.47	2.40	-1.27	1.58	-1.54	3.11	-0.35	1.00	-2.95	42.72	-8.52	
Springdale.....	1.76	-1.92	4.10	+1.58	4.77	+1.36	4.81	+1.53	1.43	-2.13	9.95	+5.69	5.71	+1.92	7.51	+3.20	1.19	-2.00	2.20	-1.12	2.53	+0.40	1.96	-1.21	47.92	+7.40	
Uniontown.....	1.74	-2.11	2.99	-0.14	3.85	-0.11	6.88	+3.13	2.60	-1.47	5.87	+0.96	4.48	-0.58	4.49	-0.34	1.62	-1.56	1.25	-1.96	3.07	-0.04	1.98	-1.62	40.82	-5.84	
Unity Reservoir.....	2.22	.....	4.61	.....	4.72	.....	6.29	.....	2.35	.....	6.49	.....	6.14	.....	4.85	.....	2.26	.....	1.97	.....	3.21	.....	1.54	.....	46.65	.....
Vandergrift.....	1.19	.....	3.74	.....	4.17	.....	5.37	.....	1.61	.....	8.91	.....	8.55	.....	3.30	.....	1.08	.....	2.50	.....	2.80	.....	1.06	.....	44.28	.....
Warren.....	2.71	-0.22	2.70	+0.05	2.71	-0.42	3.63	+0.12	1.54	-2.91	8.01	+3.69	4.91	+0.08	3.82	-0.28	1.51	-2.12	5.24	+1.79	3.98	-0.65	1.76	-1.35	42.52	-0.92	
Washington.....	1.22	.....	3.66	.....	4.09	.....	.....	.....	1.75	.....	7.04	.....	8.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Westford.....	2.19	.....	2.30	.....	2.30	.....	2.32	.....	2.29	.....	6.67	.....	4.20	.....	1.97	.....	1.65	.....	4.35	.....	5.71	.....	1.07	.....	37.02	.....
West Newton.....	1.51	-1.98	2.67	-0.39	3.51	-0.12	4.68	+1.36	2.81	-0.75	5.83	+1.68	5.21	+0.72	3.41	-0.54	1.16	-1.44	1.49	-1.20	2.03	-0.29	2.03	-1.26	36.34	-4.21	
Zellenople.....	1.87	.....	3.41	.....	3.03	.....	2.86	.....	1.08	.....	8.04	.....	6.66	.....	2.49	.....	0.78	.....	2.67	.....	2.01	.....	2.01	.....	36.91	.....
POTOMAC BASIN																											
Chambersburg.....	2.18	-0.41	2.62	-0.29	3.63	+0.63	5.98	+3.14	1.75	-1.90	9.82	+5.81	6.51	+3.23	2.44	-1.80	3.04	+0.30	1.28	-1.92	1.64	-1.01	0.91	-1.65	41.86	+4.13	
Gettysburg.....	2.01	-1.13	3.38	+0.57	3.60	+0.44	7.29	+3.69	2.24	-1.73	9.74	+5.84	4.93	+1.31	5.84	+1.77	5.73	+2.36	1.38	-1.82	2.01	-0.66	1.08	-2.25	49.23	+2.39	
Hyndman.....	1.70	-1.90	1.63	-1.11	2.88	-0.47	7.00	+3.43	1.03	-2.17	5.40	+0.08	4.88	+1.77	3.15	-1.13	2.43	-0.73	1.20	-1.66	2.10	+0.56	0.63	-2.24	34.03	-5.57	
LAKE BASIN																											
Erie.....	1.85	-0.92	1.62	-1.04	2.16	-0.46	2.57	-0.16	0.65	-2.75	3.96	+0.62	3.63	+0.62	3.89	+0.62	3.43	+0.04	3.38	-0.31	3.88	+0.58	0.66	-2.17	31.68	-5.33	

Monthly and Annual Mean Temperatures for the Year 1928, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic Drainage.																										
Allentown	31.9		30.1		36.9		47.0		58.9		66.2		74.8		73.8		61.2		54.4		43.8		35.1		51.2	
Altoona	28.0	+0.7	28.7	+2.9	36.0	-1.3	44.1	-4.1	57.4	-2.0	63.6	-2.6	70.8	-0.3	71.7	+2.1	58.6	-4.1	54.4	+2.5	42.0	+1.2	33.4	+4.4	49.1	0
Arendtsville	31.4		31.3		38.1		46.2		59.8		67.4		74.8		74.5		60.3		54.0		44.5		34.6		51.4	
Bellefonte	32.2	+2.3	31.7	+1.9	38.6	-1.0	49.4	-2.5	60.6	-2.4	67.8	-2.0	75.8	+1.1	75.4	+1.7	64.1	-2.1	58.0	+2.5	46.7	+2.7	37.5	+4.4	53.2	+0.6
Bethlehem	31.8	+3.9	33.0	+3.6	39.4	+1.9	48.8	-3.4	61.2	-0.2	69.2	-1.7	75.6	+0.8	75.5	+2.8	62.7	-2.0	56.1	+3.8	45.0	+4.3	35.2	+3.9	52.8	+1.5
Carlisle	30.9	+1.9	29.6	+0.5	36.6	-1.0	47.0	-4.3	58.4	-3.0	66.0	-1.7	73.4	+0.7	74.2	+3.9	60.6	-2.9	55.4	+1.8	44.2	+1.8	33.4	+1.8	50.7	-0.1
Catawissa	26.6	+1.2	26.0	+0.1	33.2	-2.6	44.3	-4.6	57.9	-1.9	62.8	-3.3	70.0	-1.4	69.9	+0.7	56.8	-5.2	52.4	+1.0	41.3	+1.4	32.2	+3.2	47.8	-0.9
Center Hall	32.5	+3.8	33.4	+2.6	39.5	+1.1	47.5	-2.3	58.8	-2.4	66.8	-2.6	72.6	-2.1	73.2	+1.0	61.0	-4.9	55.2	+2.4	44.4	+3.0	34.6	+1.7	51.6	+0.1
Chambersburg	28.2	+1.3	29.6	+2.1	36.8	-0.7	45.8	-2.5	57.6	-2.2	65.2	-2.1	73.0	+1.5	75.2	+5.3	59.8	-3.4	54.8	+1.8	42.0	+1.3	34.0	+5.3	50.2	+0.7
Cleatsville	30.0	+3.5	30.4	+0.6	37.6	-3.0	46.9	-3.0	58.8	-0.2	65.4	-3.7	72.4	-0.1	73.0	+2.4	60.3	-3.8	54.4	+1.4	43.8	+2.8	34.2	+1.2	50.6	-0.1
Colebrook	27.0	+1.2	26.4	+1.7	32.9	-2.1	42.6	-4.5	55.0	-3.7	62.6	-3.6	70.0	-0.2	70.4	+2.5	57.4	-4.0	52.6	+2.6	40.7	+1.5	31.8	+2.7	47.4	-0.5
Emporium	31.4	+2.1	32.4	+4.3	39.6	+0.6	48.4	-1.6	59.6	-1.3	67.4	-0.6	74.8	+0.8	74.8	+3.0	61.8	-3.7	55.7	+0.6	45.8	+3.4	36.3	+5.0	52.3	+1.0
Ephrata	25.0		24.6		31.6		41.6		56.0		62.4		70.3		70.4		56.4		50.6		38.8		29.8		46.5	
Freeland	33.0	+2.2	33.2	+3.5	40.0	+0.8	49.0	-1.1	59.4	-1.6	67.8	+0.1	75.4	+1.8	76.0	+4.6	64.0	-0.9	57.0	+2.1	44.3	+1.7	36.8	+4.5	53.0	+1.5
George School	33.6	+4.6	34.2	+3.9	40.7	+1.5	48.6	-1.8	61.4	+0.1	68.4	-1.2	75.2	+1.2	75.1	+3.4	62.6	-2.4	56.4	+4.2	46.6	+5.3	36.2	+4.5	53.2	+1.9
Gordon	28.6	+2.2	28.8	+3.5	35.2	-0.7	45.1	-2.8	56.4	-2.1	63.8	-1.4	71.4	+1.2	72.1	+3.9	59.1	-2.7	54.2	+3.7	43.0	+4.0	32.8	+4.3	49.2	+1.1
Gouldsboro	23.5		23.1		28.6		39.8		52.0		60.2		68.2		68.1		54.6		49.2		37.3		29.1		44.5	
Hamburg	31.1	+2.4	30.2	+1.4	36.2	-2.2	46.9	-3.5	59.5	-2.2	65.2	-4.3	73.2	-0.7	73.3	+1.6	60.9	-4.6	53.8	-0.1	43.2	+1.0	34.4	+2.4	50.7	-0.7
Hanover	32.5	+3.5	32.5	+2.3	39.2	+0.3	48.0	-2.9	60.9	-0.9	67.2	-3.1	75.4	+0.6	75.0	+2.4	62.4	-3.4	56.8	+2.0	46.4	+3.6	37.0	+4.3	52.8	+0.7
Harrisburg	27.8		28.0		33.5		44.0		56.0		63.4		71.7		71.5		57.8		52.2		40.4		32.0		48.2	
Hawley	32.7		33.4		40.8		48.7		61.0		68.6		75.2		76.0		65.0		56.0		46.4		37.4		53.4	
Holtwood	31.2	+2.6	31.0	+2.6	38.0	-0.3	46.4	-3.2	59.0	-1.7	65.8	-2.4	73.0	+0.8	73.2	+2.5	60.8	-3.5	55.2	+2.7	44.6	+3.1	33.1	+1.6	50.9	+0.4
Huntingdon	32.6	+2.9	33.8	+3.7	40.8	+0.9	48.4	-2.5	58.3	-2.5	66.8	-0.6	72.7	+0.7	73.8	+2.9	61.4	-3.1	56.0	+2.7	44.4	+2.4	35.4	+3.3	52.0	+1.6
Hyndman	31.2	+1.6	31.6	+1.8	39.2	+1.2	46.4	-4.4	59.9	-1.1	66.0	-4.1	74.5	+1.1	74.6	+1.9	62.0	-2.5	55.2	+1.8	44.8	+1.7	34.8	+1.4	51.7	+0.1
Lancaster	27.6	+3.0	26.7	+3.7	33.0	-1.0	43.9	-1.9	56.9	-0.6	63.6	-1.6	71.5	-1.3	72.4	+4.3	59.1	-2.2	52.6	+2.1	40.6	+1.9	32.7	+5.3	48.4	+1.2
Lebanon	30.4	+1.4	30.4	+1.7	37.8	-0.8	47.6	-2.9	60.0	-1.0	67.0	-2.3	75.2	+1.6	74.7	+2.7	61.8	-3.4	55.7	+2.5	45.1	+2.1	35.5	+3.6	51.8	+0.5
Lewisburg	30.7	+4.8	30.4	+4.6	36.8	+1.5	47.7	-0.5	60.2	-1.7	67.1	-0.1	75.0	+3.5	75.0	+6.1	61.6	-0.4	55.6	+5.4	43.4	+4.3	34.0	+5.0	51.4	+3.0
Lock Haven	30.2	+3.3	31.0	+3.9	38.4	+0.6	48.8	-1.5	61.5	-0.4	67.2	-2.2	74.7	+1.4	76.1	+4.8	62.2	-2.5	55.6	+2.3	44.9	+3.0	35.0	+3.9	52.2	+1.4
Lykens	30.8	+3.6	31.6	+1.5	38.2	-1.3	47.7	-3.0	59.6	+0.5	66.4	-1.8	72.9	+1.1	73.6	+3.4	61.7	-2.5	55.5	+2.1	44.4	+3.4	34.8	+4.1	51.4	+0.9
Mauch Chunk	28.8	+1.4	28.6	+1.6	35.2	-1.6	44.8	-4.0	57.5	-2.6	64.4	-3.4	73.2	+0.9	73.6	+3.3	61.6	-2.4	54.2	+1.9	42.9	+2.3	34.4	+3.9	49.9	+0.1
Mifflintown	30.8	+3.2	31.1	+4.4	38.0	0.0	47.1	-2.7	58.8	-1.9	66.1	-1.7	73.5	+0.8	73.6	+3.0	60.6	-3.2	55.6	+3.2	44.2	+3.6	33.5	+3.3	51.1	+1.0
Montrose	26.8	+4.3	25.5	+5.2	32.4	+1.3	43.2	-0.9	54.2	-0.8	59.8	-2.9	67.8	-0.4	69.8	+2.9	57.0	-3.1	51.8	+2.8	39.4	+2.5	31.8	+6.2	46.5	+1.3
Mount Pocono	27.5	+3.0	26.5	+0.8	33.9	-2.0	43.6	-4.6	55.8	-1.4	62.4	-3.8	69.8	+0.1	70.8	+3.1	58.4	-3.0	51.8	+1.2	43.0	+3.8	33.6	+5.9	48.1	+0.3
Muncy Valley	32.6		32.9		39.1		46.4		58.4		66.9		74.3		74.6		61.5		55.0		43.8		34.2		51.0	
Narberth	30.0	+2.4	29.9	+0.8	37.4	-2.1	46.4	-3.7	58.4	-0.9	66.9	-2.3	74.3	+1.2	74.6	+3.6	61.5	-3.9	55.0	+1.0	43.8	+2.3	34.2	+2.4	51.0	0.0
Neshaminy Falls	35.6	+3.0	35.1	+1.2	42.0	+1.2	50.6	-1.5	62.4	-0.5	69.8	-1.6	77.4	+1.2	77.2	+2.4	65.4	-2.6	59.9	+2.1	49.0	+3.3	40.8	+4.5	55.4	+1.0
Palmerston	35.4		35.2		42.0		50.4		62.4		69.9		77.4		77.4		65.6		59.7		48.8		40.3		55.4	
Philadelphia	34.2	+2.9	34.2	+0.9	40.8	-1.3	49.0	-2.5	61.8	+0.1	69.7	-2.1	77.0	+1.3	77.8	+3.8	65.2	-2.8	59.0	+1.6	47.8	+2.4	38.2	+3.2	54.6	+0.6
Philadelphia-Gtn.	35.0		35.5		41.8		50.0		61.8		70.6		77.6		77.3		65.2		59.3		48.2		39.4		54.6	
Phoenixville	32.6	+2.8	33.6	+1.8	41.2	+0.6	50.1	-2.1	61.0	0.0	69.9	-1.6	76.6	+2.1	77.2	+4.5	64.6	-1.8	57.6	+3.2	47.0	+4.4	38.1	+3.3	51.1	+1.5
Quakertown	30.1	+3.1	29.5	+1.3	37.3	+1.0	46.9	-1.5	58.5	-1.1	66.8	-1.4	74.2	+1.7	74.7	+7.5	61.9	-1.7	54.3	+2.2	44.2	+3.2	34.4	+3.3	51.1	+1.5
Reading	33.2	+3.8	32.4	+3.6	39.8	-0.2	49.0	-1.3	61.0	-1.5	67.8	-2.0	76.0	+0.5	75.7	+3.3	63.2	-3.1	57.8	+3.1	47.2	+4.7	38.1	+5.9	53.4	+1.4
Scranton	29.9	+3.3	28.8	+1.5	34.8	-0.9	45.2	-2.9	57.9	-1.5	65.0	-2.8	72.8	+1.1	72.9	+3.1	60.0	-2.9	54.2	+2.4	43.0	+2.5	35.2	+4.5	50.0	+0.6
Selinsgrove	30.6	+1.7	30.8	+3.7	37.2	-1.0	47.1	-2.8	58.6	-2.5	65.2	-3.8	73.4	-0.1	74.1	+2.6	61.4	-3.0	55.5	+2.9	444					

COOPERATIVE AND RAINFALL OBSERVERS

Stations	Observers	Stations	Observers	Stations	Observers
Allentown.....	John A. Frick.	Gordon.....	Capt. J. G. Johnson.	Penn Line.....	Retta Crumb.
Altoona.....	Louis E. Biller.	Gouldsboro.....	Gustav Holtz.	Philadelphia.....	U. S. Weather Bureau.
Ansonia.....	Paul H. Mulford.	Graterford.....	C. K. Kuip.	Philadelphia-Gtn.....	Julius Bernstein.
Arendtsville.....	Dr. S. W. Frost.	Greensburg.....	Westmoreland Water Co.	Philadelphia.....	Commandant, Navy
Bakers Summit.....	M. Snyder.	Greenville.....	J. R. Marks.	Navy Yard.....	Yard.
Beaver Dam.....	F. H. McCullough.	Grove City.....	Prof. H. W. Harmon.	Phila- Point Breeze.....	Atlantic Refining Co.
Beaver Falls.....	W. Edward Eakin.	Hamburg.....	State Sanatorium.	Phoenixville.....	N. Springfield Water Co.
Bethlehem.....	Lehigh University.	Hanover.....	Thomas Y. Cooper.	Pine Grove.....	East Penn Electric Co.
Blosserville.....	A. G. Mountz.	Harrisburg.....	U. S. Weather Bureau.	Pittsburgh.....	U. S. Weather Bureau.
Bellefonte.....	U. S. Weather Bureau.	Hawley.....	Mrs. Delia M. Pennell.	Pleasant Mount.....	G. W. Buller.
Bradford.....	Bradford Electric Co.	Herr's Island Dam.....	U. S. Engineer.	Pottstown.....	J. Ernest Spare
Brookville.....	John Fawcett.	Hollisterville.....	Penn. P. & L. Co.	Pottsville.....	John H. Strauch.
Butler.....	The Butler Eagle.	Holtwood.....	H. W. Lowy, C. E.	Quakertown.....	John E. Benner.
Carlisle.....	Clarence E. Miller.	Huntingdon.....	Prof. W. J. Swigart.	Reading.....	U. S. Weather Bureau.
Catawissa.....	H. H. Yetter.	Hyndman.....	John S. Madore.	Renovo.....	J. H. Baird.
Center Hall.....	S. W. Smith.	Ingram.....	W. R. Goumly.	Ridgway.....	West Penn. Power Co.
Chambersburg.....	Wm. B. Spear.	Irwin.....	W. F. Gallagher.	Saltsburg.....	Thomas M. Duncan.
Chambersville.....	J. L. Melvin.	Johnstown.....	E. C. Lorentz.	Scranton.....	U. S. Weather Bureau.
Claysville.....	E. W. Hess, C. E.	Keglar.....	I. A. Knupp.	Selinsgrove.....	Dr. George E. Fisher.
Clearfield.....	Frank McElwain.	Lakeville.....	Penn. P. & L. Co.	Sharon.....	H. H. Gerber.
Cloe.....	Thomas Fleitz.	Lancaster.....	Supt. Water Works.	Shawmont.....	Winfield S. Guiles.
Clymer.....	W. T. Gordon.	Lansford.....	Lehigh Coal & Nav. Co.	Snow Hill.....	G. L. Dormy.
Coatesville.....	William A. Rorer.	Lawrenceville.....	C. P. Darling.	Somerset.....	Penn. Public Service Co.
Colebrook.....	Grant Pyle.	Lebanon.....	S. B. Benzing.	Springdale.....	U. S. Engineer.
Confluence.....	Russell C. Erb.	Lebanon.....	Prof. Wm. G. Owens.	State College.....	C. A. Kern.
Conshohocken.....	U. S. Engineer.	Linesville.....	Water Supply Com.	Stroudsburg.....	State Normal School.
Coraopolis.....	Assd. Gas & Electric Co.	Lloyd.....	M. L. Fish.	Sunbury.....	Carl E. Stahl.
Corry.....	West Penn Power Co.	Lock Haven.....	Joseph A. Beaver.	Towanda.....	Hiram E. Bull, C. E.
Coudersport.....	John E. Lewis.	Lock No. 4.....	U. S. Engineer.	Uniontown.....	Wm. W. Marsteller.
Creekside.....	W. P. Linnan.	Lycippus.....	Westmoreland Water Co.	Unity Reservoir.....	Westmoreland Water Co.
Cresson.....	Ted R. Wineman.	Lykens.....	Susquehanna Coal Co.	Vandergrift.....	H. R. Belding.
Derry.....	Donora Zinc Works.	Mauch Chunk.....	R. K. Wintermute.	Warren.....	Mrs. Anna Simpson
Donora.....	Geo. Hart.	Meadville.....	Assd. Gas & Electric Co.	Washington.....	G. S. Buchanan.
Doylestown.....	Walter Leach.	Mifflintown.....	Wellington Smith.	Weikert.....	David Libby.
Ebensburg.....	D. H. Jones.	Montrose.....	Silas Jagger.	Wellsboro.....	George W. Hill.
Elk Lick.....	J. S. Stevanus.	Morris Run.....	Morris Run Mining Co.	West Chester.....	Joseph W. Belt.
Emporium.....	T. B. Lloyd.	Mt. Lebanon.....	Fred Hoffman.	Westford.....	C. C. Collins.
Ephrata.....	Ira J. Keath.	Mt. Pocono.....	Cecil J. Hoskinson.	Westgrove.....	Conard-Pyle Co.
Erie.....	U. S. Weather Bureau.	Muncy Valley.....	H. O. Hacker.	West Newton.....	A. B. Adams.
Falls Creek.....	C. J. Snell.	Narberth.....	Charles Decker.	Wilkes-Barre.....	Milton Wentz.
Forest City.....	L. L. Whipple.	Neshaminy Falls.....	N. Springfield Water Co.	Williamsport.....	Veronica E. April.
Franklin.....	R. A. Fergus.	New Castle.....	New Castle Water Co.	York.....	C. L. Bott.
Freeland.....	Theodore Reichmann.	Newell.....	General Chemical Co.	York Haven.....	York Haven Water Co.
Freeport.....	U. S. Engineer.	New Park.....	C. J. Allen.	Zelienople.....	Francis Gray.
George School.....	N. W. Swayne.	Palmerton.....	New Jersey Zinc Co.		
Gettysburg.....	Dr. Henry Stewart.	Parkers Landing.....	Henry Turk.		
Girardville.....	Girard Water Co.	Paupack.....	Penn. Power & Light Co.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1928



KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIV. JANUARY, 1929. No. 1

GENERAL SUMMARY.

The temperatures in January averaged near the normal with no unusual extremes. There was a slight excess at most stations in the eastern portion of the State, while a slight to moderate deficiency was reported generally from the western stations. The precipitation was mostly near the normal in all parts of the State, although the snowfall was below the January average excepting a few northwestern counties and a few localities in the mountain districts. In the southeastern counties the conditions permitted outdoor work a large part of the time, and the snowfall did not interfere with traffic. From the 23d to the 25th, inclusive, rain and sleet froze on the highways in nearly all parts of the State, and made travel conditions the most difficult and dangerous that have obtained in recent years. In the chief wheat growing sections the fields were bare of snow the greater part of the month, and frost penetrated the soil deeply. Alternate freezing and thawing of the top soil did more or less damage to the grain. The extent of the damage will be impossible to estimate until the grain starts to grow in the spring. The streams in the eastern part of the State remained at moderate stages throughout the month, while there was a fairly sharp rise at most places in the Susquehanna basin on the 20th, although nothing approaching the flood stages. In the Ohio basin there was a marked rise to near the flood stages in some places on the 20th, occasioned by rains and melting snows on the 18th and 19th. The month was comparatively free from severe or damaging storms, and there was less of the blustery and disagreeable sort of weather that obtains in the average January.

TEMPERATURE.

The mean temperature for the State as shown by reports from 85 stations, was 27.3°, or 0.5° colder than the January normal. The highest monthly mean was 34.2°, at Philadelphia Weather Bureau and also at Philadelphia-Germantown, and the lowest was 20.7°, at Ridgway. The highest temperature recorded during the month was 73°, at Newell on the 19th, and the lowest was -20°, at Brookville on the 16th. The greatest daily range of temperature was 61°, at Franklin on the 17th.

PRECIPITATION.

The average precipitation (from rain, sleet and melted snow) for the State, as determined from observations at 133 stations, was 3.37 inches, which is 0.04 inch greater than the normal for the month. The greatest monthly amount recorded was 6.86 inches, at Driftwood, while the least, 1.12 inches fell at Towanda. The greatest amount recorded in any 24 consecutive hours was 3.00 inches, at Driftwood on the 14-15th.

Snowfall for the State averaged 7.6 inches, as compared with a normal of 11.0 inches. The greatest total snowfall for the month was 25.5 inches, at Corry, and the greatest 24-hour fall was 12.0 inches, at Penn Line on the 9-10th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Velocity, in miles per hour			
				8 a. m.	12 noon.	8 p. m.	Total movement, in miles	Average	* Highest	Direction
Erie.....	31.7	295.8	11	75	71	68	12,693	17.1	54	se.
Harrisburg.....	151.5	300.9	50	65	52	55	5,581	7.5	37	s.
Philadelphia.....	194.4	300.9	65	68	64	64	9,852	13.2	45	s.
Pittsburgh.....	84.7	298.2	28	73	66	65	8,901	12.0	50	w.
Reading.....	168.2	300.9	56	77	67	74	5,799	7.8	28	se.
Scranton.....	103.2	298.2	35	76	64	64	5,987	8.0	33	sw.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15	13
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9	10
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16	14
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15	12
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15	12
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14	12
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13	10
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14	13
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14	6
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15	10
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17	13
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11	10
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14	10
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15	11
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14	9
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17	11
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15	12
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15	12
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13	11
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18	15
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11	9
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16	13
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19	14
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18	13
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16	12
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17	11
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15	13
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14	12
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12	13
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13	12
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9	8
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14	10
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12	10
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10	8
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19	14
1924.....	28.1	65	-13	4.34	6.29	1.70	11	8	12	8
1925.....	25.2	55	-29	3.49	6.68	1.07	11	7	13	10
1926.....	27.8	66	-19	2.80	4.85	1.12	9	9	13	11
1927.....	27.4	61	-24	2.90	8.28	0.76	9	6	16	13
1928.....	29.8	65	-23	2.08	4.48	0.78	12	8	11	9
1929.....	27.3	73	-20	3.37	6.86	1.12	9	9	13	12

RIVER CONDITIONS

Stations	Rivers	Mean stage		Highest stage		Lowest stage		Flood stage	
		Mean	Date	Highest	Date	Lowest	Date	Mean	Date
Port Jervis.....	Delaware.....	2.8	5.4	20	2.1	1	18		
Phillipsburg.....	Delaware.....	2.5	3.4	11	1.4	1	22		
Manch Chunk.....	Lehigh.....	2.6	1.0	7	3.3	1	12		
Wilkes-Barre.....	Susquehanna.....	3.6	9.3	21	2.1	4	20		
Williamsport.....	Susquehanna.....	2.9	9.3	20	0.9	5	20		
Harrisburg.....	Susquehanna.....	5.1	7.0	22	3.6	2	17		
Greensboro.....	Allegheny.....	13.5	19.5	20	11.4	9	22		
West Newton.....	Youghiogheny.....	3.2	6.0	19	0.8	1	20		
Lock No. 4.....	Monongahela.....	16.1	20.2	20	14.1	10	31		
Pittsburgh.....	Ohio.....	13.8	23.2	20	11.0	16	25		
Beaver Dam.....	Ohio.....	11.5	27.1	20	5.5	17	30		

Climatological Data for January, 1929

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 31 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	17	28.4	.....	62	18	6	13	43	3.39	-0.26	1.08	2.2	12	15	9	7	n.	John A. Frick.
Altoona	Blair	1,615	42	24.8	-2.5	64	18	-7	14	32	4.12	+1.62	1.01	11.0	14	7	12	12	w.	Lewis E. Biller.
Arendtsville	Adams	700	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. S. W. Frost.
Bellefonte	Center	1,050	24	24.8	.....	59	18	-2	14	34	2.46	-0.33	0.49	6.5	17	5	9	17	w.	U. S. Weather Bureau.
Bethlehem	Northampton	364	45	30.2	+0.3	61	19	5	14	28	3.19	-0.39	0.94	1.0	9	12	5	14	w.	Lehigh University.
Carlisle	Cumberland	467	62	29.3	+1.4	60	19	3	14	29	3.68	+0.56	1.18	8.0	8	15	3	13	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	32	28.0	-0.1	65	18	1	14	45	2.15	-1.17	0.53	5.0	9	20	3	8	n.	H. H. Vetter.
Center Hall	Center	1,272	33	24.8	-0.6	64	18	-3	13	34	2.35	-0.20	0.41	9.5	9	17	3	11	n.	S. W. Smith.
Chambersburg	Franklin	580	29	28.8	+0.1	61	19	2	14	27	3.40	+0.81	0.87	7.5	9	8	11	12	nc.	William B. Spear.
Clearfield	Clearfield	1,120	19	25.4	-1.5	63	18	-10	16	44	5.14	+1.30	0.60	19.0	13	7	11	13	nw.	E. W. Hess.
Coatesville	Chester	380	41	28.8	-1.6	60	19	6	14	33	3.84	-0.13	0.96	2.6	11	10	12	9	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	19	27.5	+1.0	62	19	0	14	31	3.18	-0.37	0.96	4.0	11	13	5	13	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	41	23.7	-2.1	62	19	-15	16	39	4.47	+0.94	1.66	6.8	8	7	10	14	w.	T. B. Lloyd.
Ephrata	Lancaster	380	28	30.3	+1.0	61	19	6	14	28	3.00	+0.01	1.12	1.8	8	12	8	11	w.	Ira J. Keath.
Freeland	Luzerne	1,970	14	21.8	.....	56	18	-8	14	34	3.99	.....	1.54	14.8	13	6	9	16	nw.	Theo. Reichmann.
George School	Bucks	190	22	32.1	+1.3	62	19	6	14	39	2.87	-0.20	0.90	1.3	8	13	7	11	w.	Prof. N. W. Swayne
Gettysburg	Adams	553	55	29.6	+0.6	60	19	4	14	29	4.35	+1.21	1.38	5.4	10	11	10	10	nw.	Dr. Henry Stewart
Gordon	Schuylkill	840	25	26.8	+0.4	66	19	0	14	33	4.57	+0.64	1.90	15.0	10	16	4	11	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	5	20.8	.....	54	19	-10	16	34	3.34	+0.10	1.10	8.0	9	12	8	11	w.	Gustav Holtz.
Hamburg	Berks	535	36	28.8	+0.1	59	19	3	14	29	3.01	-0.75	0.89	5.0	8	13	14	4	w.	State Sanatorium.
Hanover	York	600	25	31.6	-1.3	63	19	4	14	30	3.41	+0.09	0.99	4.3	10	16	2	13	w.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	59	30.4	+1.4	63	18	5	14	33	3.16	+0.07	0.81	5.5	12	7	13	11	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	10	24.4	.....	61	18	-2	14	35	3.15	.....	1.03	11.2	10	12	11	8	n.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	14	31.4	.....	59	19	9	15	29	2.97	-0.61	0.90	3.0	9	9	10	12	n.	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	41	27.3	-1.3	63	19	1	14	30	3.55	+0.23	1.05	7.8	11	7	12	12	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	18	29.2	-0.5	63	19	-1	13	33	2.15	-1.45	0.74	6.8	8	1	12	18	n.	John S. Madore.
Lancaster	Lancaster	255	41	30.1	+0.5	65	19	8	14	32	2.82	-0.43	1.35	4.0	6	18	7	6	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	31	24.9	-0.3	62	18	-12	16	42	2.21	+0.17	0.50	14.5	11	3	8	20	n.	C. P. Darling.
Lebanon	Lebanon	469	88	28.4	-0.6	63	18	5	14	39	3.31	-0.28	0.85	2.6	9	12	11	8	nw.	S. B. Benzing.
Lewisburg	Union	450	54	27.8	+2.4	58	19	3	14	28	3.50	+0.53	0.96	10.0	8	10	7	14	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	39	28.2	+0.8	61	19	1	14	30	2.88	-0.39	0.65	3.0	10	8	9	14	sw.	Joseph Beaver.
Lykens	Dauphin	680	14	28.2	+1.0	64	19	2	14	34	3.30	-0.21	1.23	2.8	6	11	14	6	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	38	27.4	0.0	61	19	6	14	40	4.14	+0.36	1.54	5.0	9	13	7	11	nw.	R. K. Wintermute.
Midlinton	Juniata	445	25	28.6	0.0	60	19	2	14	27	3.07	-0.11	0.85	6.5	9	9	6	16	w.	Wellington Smith.
Montrose	Susquehanna	1,720	26	23.2	+0.7	58	19	-11	14	43	2.23	-0.48	1.00	7.0	6	7	8	16	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	25	22.6	-0.3	61	18	-5	14	33	4.08	+0.93	1.20	11.0	11	16	7	8	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	17	26.0	+1.5	57	19	-7	14	32	4.04	+0.72	1.13	6.0	7	13	7	11	nw.	H. O. Hacker.
Narberth	Montgomery	300	10	30.4	.....	61	19	5	14	32	3.01	.....	0.91	0.8	13	11	8	12	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	40	29.2	+1.6	64	18	4	14	48	2.52	.....	0.65	2.7	12	17	5	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	12	28.2	.....	60	19	6	14	34	2.95	.....	0.97	2.1	12	0	17	14	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	58	34.2	+1.6	63	19	9	14	34	2.70	-0.60	0.87	0.5	9	8	9	14	nw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	5	34.2	.....	62	19	8	14	33	2.84	.....	0.78	0.5	10	13	10	8	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	13	32.6	+1.3	63	19	8	14	34	2.96	-0.27	0.81	0.5	12	10	7	14	nw.	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	4	33.0	.....	62	19	8	14	34	2.82	.....	0.84	0.1	8	13	9	9	nw.	Atlantic Refining Co.
Phoenixville	Chester	100	18	32.2	+2.4	64	19	12	16	29	3.54	-0.41	0.95	2.1	6	15	10	6	nw.	North Springfield Water Co.
Quakertown	Bucks	496	44	28.1	+1.1	50	19	4	14	34	3.17	-0.32	0.94	1.2	9	9	7	15	nw.	John E. Benner.
Reading	Berks	325	59	31.2	+1.8	62	19	1	14	36	3.57	0.00	1.36	3.6	12	9	12	10	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	34	27.2	+0.6	62	19	1	14	38	1.84	-1.19	0.58	2.3	12	4	8	19	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	39	28.5	-0.4	61	19	3	14	29	3.04	-0.08	0.78	6.5	8	17	4	10	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	33	31.8	.....	61	19	8	14	26	3.03	-0.22	0.82	1.0	8	7	13	11	nw.	W. S. Guiles.
State College	Center	1,217	44	25.4	-0.9	60	18	-4	14	39	3.33	+0.35	0.67	5.6	11	3	19	9	w.	C. A. Kern.
Stroudsburg	Monroe	500	18	27.2	+0.9	61	18	3	14	39	3.37	+0.15	1.50	7.7	9	13	5	13	nw.	State Normal School.
Towanda	Bradford	754	34	25.4	+0.2	63	18	-1	16	34	1.12	-0.98	0.40	7.3	9	3	18	10	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	63	22.4	-1.9	57	18	-10	16	32	2.10	-0.47	0.53	14.7	13	14	8	9	w.	George W. Hill.
West Chester	Chester	455	91	31.1	+0.9	61	19	5	14	30	2.99	-0.85	0.75	2.0	6	11	9	11	nw.	Joseph W. Belt.
Williamsport	Lycoming	521	42	27.4	+0.1	61	19	2	14	31	3.77	+0.77	1.35	4.5	14	14	4	13	w.	Miss Veronica E. April.
York	York	400	41	30.7	+1.4	65	19	6	14	30	3.44	+0.45	1.03	4.0	10	16	6	9	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	36	27.8	-2.2	70	19	-5	14	37	2.91	+0.04	0.69	6.8	15	7	6	18	sw.	U. S. Engineer.
Bradford	McKean	1,460	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Bradford Electric Co.
Brookville	Jefferson	1,173	38	22.3	-2.5	67	18	-20	16	55	4.32	+0.95	1.50	17.0	12	16	12	3	.....	John Fawcett.
Butler	Butler	1,152	4	24.8	.....	67	19	-13	16	43	3.12	.....	0.85	6.5	9	8	2	21	w.	William C. Faust.
Claysville	Washington	1,150	25	28.8	-2.1	71	19	-11	14	39	2.70	-0.83	0.55	3.9	14	14	4	13	s.	J. L. Melvin.
Corry	Erie	1,430	17	21.8	-2.5	62	1													

Daily Precipitation for January, 1929

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown	Lehigh	.07	1.08				.58				.68				.08	.06		.10	.03	.10				.20		.16	.25						3.33		
Altoona	Juniata	.40			.30		.71				.38			.05		.05		.23	.28	.13			.30	.60		.61			.09			.05	4.12		
Ansonia	W. Br. Susq.	.22	.34				.62			.27		T.	.02			.21			.21	.18				.52		.50	.07		.01				3.17		
Arendtsville	Lower Susq.																																		
Baker's Summit	Juniata	.63					.59	.32			.12							.12						.99		.56							3.21		
Bellefonte	W. Br. Susq.	.43	T.		T.	.29	.19	T.	T.	.03	.12	T.	T.	.01	T.	.01	.01	.22	.11	.03	T.	T.		.44	.03	.04	.45	T.	T.	.03	T.	T.	.02	2.46	
Bethlehem	Lehigh	.94	.15				.63				.67								.02	.06	.14				.21		.37						3.19		
Blossville	Lower Susq.	.35	.05				.78				.55					.05								.30			.40						2.48		
Carlisle	Lower Susq.	.62	T.		.50	.68					.41							.11		.07				.02	.62		.72						3.68		
Catawissa	N. Br. Susq.	.42			.21	.15			.05	.42				.05			T.	.07						.25		.53						T.	2.16		
Center Hall	Susquehanna	.35	.05			.41					.32							.26			.28			.26		.30				.12	T.		2.35		
Chambersburg	Potomac	.87			.22	.52					.36							.05						.49	.16		.70					.03	3.40		
Clearfield	W. Br. Susq.	.60	T.		T.	.50		T.	T.		.51				.10	.60		.60	.28	.23				.40	.20	.60			.30	T.			5.14		
Coatesville	Lower Del.	.87			.34	.62					.72			.10		.60		.13		.13				.15	.06		.71						3.84		
Colebrook	Lower Susq.	.96	T.		.18	.18	T.				.67			T.				.10	.01	.02			T.	*	.39		.66					.01	3.18		
Conshohocken	Schuylkill	1.00				.92					.41			.04				.07	.02				T.	T.	.21		.76					.01	3.44		
Cresson	Juniata				.90						.40			.13				.17	.48					.87		.51						T.	2.97		
Doylstown	Lower Del.	.63			T.	.82					.55			T.				.13		.06				.18		.54						T.	2.91		
Driftwood	W. Br. Susq.		.20			.70					.55						3.00	.75	.75	.25				.25	.40							T.	6.86		
Emporium	do.			1.66										.07	.06			.70		.43				.67		.83				.05			4.47		
Ephrata	Lower Susq.	1.12			.04	.30					.60							.05						T.	.31		.57						T.	3.00	
Forest City	N. Br. Susq.	.35	.15	.02		.13			.11	.06			.05					.25	.13	.04					.13		.45			.04	T.	T.	1.91		
Freeland	Lehigh	.09	.54	.10	T.	1.54				.66	T.		.02		.22	T.		.09	.03	.08					.22		.18	.22			T.	T.	3.99		
George School	Lower Del.	.51	.01			.90	T.			.43			.05					.17						.20		.60						T.	2.87		
Gettysburg	Potomac	.92			.22	1.16				.54								.09	.01	.02	T.			.40	.22		.77					T.	4.35		
Girardville	Lower Susq.	.63			.73	.70			.02	.35	T.			.11		.01		.08	T.	.16				.20	.13		.34					T.	.02	3.48	
Gordon	Lower Susq.	.62			1.90					.60				.30		.10		.10	T.	.19				.11	.55								.10	4.57	
Gouldsboro	Lehigh	.23	.36			1.10				.60		.03	.23					.16							.09		.54							3.34	
Graterford	Schuylkill	*			*	*				1.71				T.				.18		.07				.21		.56						T.	2.73		
Hamburg	Schuylkill	.62			.58					.89			.01					.09		.19				.34		.29						T.	3.01		
Hanover	Lower Susq.	.99	T.		.22	.22				.73								.10	.01	.01				.25	.23	.65						T.	3.41		
Harrisburg	do.	.74	T.		.78	.03	T.		.08	.33	T.			T.			.02	.08	.01	.04				.45	.05	.55						T.	3.16		
Harrisburg East	do.	.75			.80					.44								.15		.04				.36		.80							T.	3.34	
Harrisburg North	do.	.77			.81					.43	.02							.09	T.	.07				.47		.71							T.	3.37	
Hawley	Upper Del.	.07	.58	T.		1.03			T.		.20				.03			.20	.02					.20		.45	.37							3.15	
Hollisterville	Upper Del.	.14	.57	T.		.60	T.			.37			T.					.12	.03	.05				.18	.33	.25								2.79	
Holtwood	Lower Susq.	.35	.55			.68				.42					.13	T.		.12	.03	.05					.18	.33	.25				T.	T.	.02	T.	2.97
Huntingdon	Juniata	.62	T.		.06	.71	T.											.06	T.	.05				*	.25		.06	.55						2.97	
Hyndman	Potomac	.42			T.	.16				.36	T.			T.				.19	.14	.02					.71	1.05						.03	3.55		
Lakeville	Upper Del.	.12	.69			.87				.30	.03							.03						.55	.19	.34							.10	2.15	
Lancaster	Lower Susq.	1.35			.54					.45				.10		.03	T.	.20	.04	.03				.29		.48	.30					T.	T.	T.	3.88
Lansford	Lehigh	.05	.78			1.81				.69						.02		.03		.05				.26		.16	.21							2.82	
Lawrenceville	N. Br. Susq.	.40	T.			.30				.16	T.	T.		.10		.15		.05	T.	.10				.35		.50								2.21	
Lebanon	Lower Susq.	.71	T.		.50	T.		.85	T.	T.		T.		.10		.12		.06	.09					.38		.34	.26					T.	T.	T.	3.31
Lewisburg	W. Br. Susq.	.60				.96				.34								.35	.05	.03				.47		.70							T.	3.50	
Lloyd	do.	.61				.45				.36	.08							.21	.38						1.51								.08	3.77	
Lock Haven	do.	.31	T.			.48				.29		.01				.06		.45	.03	.09				.51		.65								2.88	
Lykens	Susquehanna	.60	T.		1.23				.61									.08	T.					T.	.28		.50	T.					T.	3.30	
Mauch Chunk	Lehigh	.69	T.		.32	1.22			.80						.06			.04						.45		.55							.01	4.14	
Millintown	Juniata	.70	T.		.06	.79	T.			.35				T.				.08						.09	.29		.70				.01			3.07	
Montrose	N. Br. Susq.	.58				1.00				.10			.15					.20							.20								T.	2.23	
Morris Run	N. Br. Susq.	.30	.08		.02	.72				.18		.07				.14		.25		.15				.33		.66							.08	3.02	
Mount Pocono	Upper Del.	1.06	T.		.19	1.01			.50		.06	.05						.50	.10	.10					.16	.35							T.	4.08	
Muncy Valley	W. Br. Susq.		.76			1.13																													

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Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....	.38	.09				.47	.02			.06	.01		.02	T	.25		.08	.02	.22				.69		.50	.06		.04				2.91	
Beaver Falls|||	Beaver.....	.36	.01	T			.33	T			.05	.01	T	.03	.01	.37		.03	.02	.23	T			.76		.50	.09		.03	T	T		2.83	
Bradford.....	Allegheny.....																																4.32	
Brookville.....	do.....		T			1.50	T			.25		T	T	.12	.16	.12		.65	.50				.75		.15	T	T	T	.06	.03		.08	4.32	
Butler.....	Ohio.....	.49	T			.50				.13				T		.45		.25	.01	.23				.10	.75					.35			3.12	
Claysville.....	do.....	.38				.05	.55	.01		.26				.07		.16		.16	.01	.23				.45	.22		T			.07			.08	2.70
Cloett.....	Allegheny.....	.12				.55	.08			.38				T	.08	.18		.20	.18	.10				.80	.04	.08	.58		T	.04	T		T	3.49
Clymer|||	Conemaugh.....	.24	T			.36	T	T		.53		.05		.20		.45		.28		.39				.20	.82		.47		.15	T	T	T	4.14	
Confluence|||	Youghiogheny.....	.25	.28			.12	T	T		.32	.14			.04	.10	.03	T	.05	.15	.20	.05			1.23		.40	T		.23	T		T	3.59	
Coraopolis|||	Ohio.....	.47	.03	T		.43	.02			.18	.01	T	.06	.04	.38	T	.16	.03	.38				T	.65		.46	.05		.04	T	T		3.39	
Corry.....	Allegheny.....	.03	.05			.01	.50			.23	.05	.03	.27	T	.80		.46	1.15					.20		T	.30		.30	.55	.10			5.03	
Coudersport.....	do.....	.65	.20			.94		.01		.38		.08	.08	.02	.35		.34	.07	.32					.58		.65			.02	.05		.03	4.77	
Creekside.....	Allegheny.....	.37				.60				.45			.06	.05	.26		.27		.40					1.01		.50			.10		.02	.05	4.14	
Derry.....	Conemaugh.....	.15				T	.10			.30			.25		.11		.10		.24					.62	.28		.50		.10		.09		2.84	
Donora|||	Monongahela.....	.24	T				T	.20		.18	T		.05	.04	.16		.16							.81		.39	.06		.16	.05			2.70	
Ebensburg.....	Conemaugh.....	.35	T	T			T	T		.30	T		.30		.20				.05	.22					.10	.65			.20				2.87	
Elk Lick.....	Youghiogheny.....									1.00	.30	.10	.40		.20									.40							.20		2.72	
Falls Creek.....	Allegheny.....	.46	.06			.90	.05			.52				.12		.50			.58	.38					.65		.70		.12	.06	.05		5.20	
Franklin|||	Allegheny.....	.34	.15	.03		.55		.02		.11	.05		.02	.08	.35		.19	.09	.21						.83		.60	.10		.06	T	T	3.79	
Freeport|||	do.....	.30	.11			.57				.22	.06		.01	.01	.04	.06	.04								.80		.46	T		.02	T	T	2.76	
Greensboro.....	Monongahela.....	.11	.04	T		.43	T	T		.23	.03		.01	.01	.04	.06	.04	T	.04	.44													3.23	
Greensburg.....	Youghiogheny.....	.20	T	T		T	.30	.03		T	.20	T	.03	.15	T	.20		.30	.04	.19				.64	.20	.52		.13	.05	.04	.01		3.23	
Greenville.....	Beaver.....	.08	.15			.10	.33	.03		T	.09		.02	.05	.07	.39								.40							.08	.02	3.63	
Grove City.....	Beaver.....	.47	T			.01	T	T		.01	.10			.20	.05	.39	.05	.09	.22	.32	T			.10	.42		.75		.12	T	T	.05	3.85	
Herr's Isl. Dam|||	Ohio.....	.37	.04			.42	.01	T		.19	.01	T	.03	.01	.54	T	.12	.02	.23	T				.74		.73	.05		.03	.01	T		3.55	
Ingram.....	Ohio.....	.47	T			.03	.41	.02		.27		.01	.12	T	.46		.10	.05	.21					.42	.41	.05	.48		.02	T	T	.08	3.61	
Irwin.....	Youghiogheny.....	.29	T			.02	.40			.24	.03	T	.05		.13	T	.28	.01	.13					.45	.25		.46		.10	T	T	.12	2.96	
Johnstown.....	Conemaugh.....																																	
Kregar|||	Youghiogheny.....	.09	T			.08	.01			.41	.11	T	.08	.20	.11	.09	.05		.43	.03				.79		.34	.17		.10	.05	.05		3.34	
Linesville|||	Beaver.....																																	
Lock No. 4|||	Monongahela.....	.23	.04			.37	.02			.25	.02	.03	.03	.05	.12	.02	.16	.01	.27					.81		.41	.07		.10	.01	T	T	3.02	
Lycippus.....	Conemaugh.....	.19				.15	T			.43		.27			.17		.08		.09					.74		.62			.12	.06		.12	3.04	
Meadville.....	Allegheny.....	.27	.10	.10		.32	.02	.05		.20		.10	.10	.02	.50		.46	.30	1.14					T	.45		.73		.08	.01		.02	4.97	
Mount Lebanon.....	Ohio.....	.47	T			.02	.35	T		.23			T	.09	T	.33		.13	.04	.35				.33					T	T		.15	3.07	
New Castle|||	Beaver.....	.44	.01	.02		.40	.02			.11	.02	.03	.15	.02	.60	.03	.05	.48	.02	.03				.60		.79	T		.15	.02	.02	.02	4.03	
Newell.....	Monongahela.....	.22				.33				.24		.05	.02	.02	.02		.10	.04	.16					.36	.34	.53			.03	.01	.07		2.54	
Parkers Landing|||	Allegheny.....	.27	.05	.10		.85				.70	.15	T	.50	T	.50	T	.12	.25	.45	.05				.77		.70	.16		.20		T		5.82	
Pennline|||	Beaver.....				.61					.52	.06			.03				1.10						.20		.75	.10		.06				3.43	
Pittsburgh***	Ohio.....	.43	T			.33	.05	.02	T	.12	.07	T	.07	T	.08	T	.50	T	.09	.18	.03			.80	.01	.08	.41		.08	T	T	.10	3.33	
Ridgway.....	Allegheny.....	T		T	T	T	1.22			.28	T	T	.15	.10	.40		.45	.22	.41					.20	.58		.71		.05	.06	T		1.0	4.98
Saltsburg|||	Conemaugh.....	.25	T	T		T	.39	.03		T	.10	T	.10	.05	.27	T	.16	.20	.28					.95	.21	T		.12		.03			3.14	
Sharon|||	Beaver.....	.29	T			.33	T			T	T	T	T		.52		.04	.08	.48					.47		.66	.03		.05	T	T		2.95	
Somerset.....	Youghiogheny.....	.30	T			.10	T			.15	T	.03	.05		.09		.06		.20					.30	.55		.35		.06	T	T	.05	2.32	
Springdale|||	Allegheny.....	.36	.07	T		.44	.02			.21	.07		.05	.01	.31		.13	.06	.34					.80		.45	.02		.04	T	T		3.88	
Uniontown.....	Monongahela.....	.13	T			.06	.14	T		.37		T	.13		.12		.03	.09	.29					.55	.11	.02	.19		.08		.09	.04	2.40	
Unity Reservoir|||	Youghiogheny.....	.20	T			T	.22	T	T	.23			.25		.20		.22	T	.30					.50	.30		.50		.13	.05	.04	.10	3.24	
Vandergrift|||	Conemaugh.....	.32							.50			.01	.12		.18	T	.18	.11						.87		.02	.44		.01			.10	2.86	
Warren.....	Allegheny.....	.42	.02		.25	.70	.05	.03		.18	.04	.06	.04	.05	.70		.25	.25	.70					.15	.10				.22	.06	.07		4.74	
Washington|||	Ohio.....																																	
Westford|||	Beaver.....	.20	.09			.50	T			.09				.04	.24		.82	1.20						T		1.03		.10		.12		.10	4.53	
West Newton|||	Youghiogheny.....	.20	.20			.35				.19	.02			.06	.05	.16	T	.17	.02	.20					.80		.37	.07		.15			2.81	
Zelienople|||	Ohio.....	.43		.01		.66	.01	T		.62				.50		.36									.83		.51		.04				4.17	
Lake Drainage.																																		
Erie***	Lake Erie.....	.08	.10	T		.07	T	.23	.01	.03	.12	.06	.06	.08	.23	.23		.07	.93					.38		.05	.44	T		.09	T	T	T	5.25

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for January, 1929

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	41	36	37	35	61	33	25	41	41	35	30	38	27	39	35	36	62	55	45	32	38	41	34	30	36	38	32	30	30	30	37.8	
	Minimum	26	21	21	18	18	25	12	12	14	25	22	6	6	8	14	16	27	30	22	22	23	24	24	20	18	18	19	19	20	20	19.1	
Altoona.....	Maximum	43	43	32	34	33	46	23	17	39	47	36	32	28	10	26	30	33	64	57	42	32	32	41	33	36	32	27	27	21	18	33.4	
	Minimum	25	17	13	22	16	20	11	2	12	32	25	13	6	-7	10	4	24	32	26	14	13	22	18	22	13	10	20	12	13	7	16.1	
Beaver Dam.....	Maximum	52	42	34	38	45	47	27	21	41	46	36	36	26	11	24	30	44	65	70	38	36	36	45	36	53	35	33	33	25	23	22	37.1
	Minimum	28	18	13	24	20	22	13	4	19	38	28	15	8	-5	11	-1	29	42	33	28	12	12	30	22	31	15	13	18	13	16	13	18.6
Bellefonte.....	Maximum	41	33	32	35	51	52	26	19	40	45	39	30	25	17	25	33	35	59	54	39	27	29	39	30	37	25	33	30	23	23	22	33.8
	Minimum	24	17	14	21	19	20	10	6	19	27	26	15	1	-2	8	3	26	36	28	21	16	12	21	15	21	10	-1	15	16	11	15.8	
Brookville.....	Maximum	48	27	32	32	44	51	23	24	40	43	34	24	21	17	24	35	45	67	48	34	32	33	37	30	37	27	33	28	22	24	21	33.5
	Minimum	26	5	3	10	9	18	5	2	22	25	17	13	-4	-16	18	-20	31	35	25	15	10	7	14	12	17	3	0	12	13	3	11.1	
Butler.....	Maximum	51	40	32	36	41	22	20	16	39	45	32	35	22	9	20	30	49	64	67	35	35	31	44	35	30	28	25	25	20	21	33.0	
	Minimum	26	17	13	22	17	13	2	16	36	27	14	4	-6	4	-13	10	49	32	30	14	14	29	20	20	16	14	13	13	15	13	16.6	
Carlisle.....	Maximum	38	41	34	40	36	54	28	22	42	48	46	36	37	19	40	33	33	49	60	47	40	32	46	44	31	33	36	35	30	29	30	37.7
	Minimum	20	26	19	20	16	28	22	10	13	33	30	19	19	3	15	8	26	31	40	23	18	22	25	24	25	17	10	23	20	19	23	20.9
Catawissa.....	Maximum	42	34	33	39	59	46	28	26	48	48	36	35	30	20	36	35	36	65	54	44	31	42	42	32	35	34	35	31	32	28	27	37.5
	Minimum	22	28	16	18	14	24	20	8	15	30	22	17	5	-1	17	15	22	28	47	18	15	14	25	19	24	15	8	17	16	20	17	18.6
Chambersburg.....	Maximum	34	42	33	40	31	46	31	24	41	52	42	35	34	18	41	34	32	53	61	45	37	32	46	39	32	35	36	36	28	29	25	36.9
	Minimum	28	24	18	22	18	27	19	9	18	32	30	19	15	2	15	12	27	32	34	24	20	21	25	26	25	17	9	25	19	18	11	20.7
Claysville.....	Maximum	52	53	34	40	45	54	26	21	41	45	37	37	25	12	26	31	56	67	71	41	42	40	53	37	60	33	34	37	25	23	25	39.5
	Minimum	28	16	12	26	21	20	11	1	18	29	27	14	-11	11	-5	27	53	32	30	16	20	28	23	26	18	12	20	12	14	10	18.0	
Clearfield.....	Maximum	43	43	31	37	32	49	34	20	41	44	35	36	23	12	26	34	35	57	37	31	32	39	38	35	37	34	32	24	24	26	34.9	
	Minimum	25	19	8	21	13	20	10	5	13	32	25	15	7	-5	7	-10	26	32	31	27	14	29	16	15	24	13	4	17	14	15	13	16.0
Coatesville.....	Maximum	46	57	32	37	48	60	34	21	42	50	42	35	38	18	40	34	35	52	60	48	36	37	44	38	34	31	33	29	30	26	38.7	
	Minimum	25	21	15	15	10	26	16	9	12	22	22	20	11	1	14	9	28	33	33	23	20	16	27	22	28	18	14	22	15	20	15	18.8
Corry.....	Maximum	40	34	27	35	51	33	24	30	39	20	10	10	2	10	5	-12	12	43	27	18	13	12	20	11	23	11	4	10	13	11	12.0	
	Minimum	20	11	6	12	9	18	2	15	2	22	21	10	-2	-10	5	-12	12	43	27	18	13	12	20	11	23	11	4	10	13	11	12.0	
Emporium.....	Maximum	44	38	34	33	44	51	33	24	38	44	35	32	23	11	23	24	38	60	62	35	29	31	37	30	37	26	30	27	23	22	33.6	
	Minimum	22	19	7	13	8	19	10	5	19	24	25	15	-4	-1	-15	21	29	24	21	13	11	23	14	23	13	0	15	17	18	16	13.8	
Erie.....	Maximum	47	30	32	31	46	49	21	23	38	42	34	21	19	11	18	27	58	65	47	32	30	42	42	29	41	20	26	22	21	20	24	32.4
	Minimum	30	21	11	23	23	18	13	8	23	25	20	14	-2	-1	4	27	46	29	21	20	21	21	18	19	15	15	18	16	15	16	18.2	
Franklin.....	Maximum	48	44	33	36	50	35	18	29	42	42	34	25	14	18	23	38	55	66	41	33	35	43	34	35	39	27	34	25	20	21	34.1	
	Minimum	18	19	11	12	15	19	11	3	3	27	25	13	12	-6	-5	-7	-6	37	31	28	13	14	15	15	16	13	9	10	14	12	13.0	
Freeland.....	Maximum	37	37	25	26	32	52	23	14	36	45	36	29	26	16	28	25	34	56	54	36	32	32	35	26	28	24	23	21	25	24	31.1	
	Minimum	22	15	8	15	11	18	8	0	6	26	14	11	5	-8	6	3	18	32	31	20	10	15	21	12	16	8	6	12	8	11	10	12.6
Gettysburg.....	Maximum	38	43	34	39	33	45	32	23	42	52	46	37	37	19	44	35	33	49	60	49	40	34	46	42	33	34	33	34	30	29	28	37.8
	Minimum	29	25	19	26	17	28	22	10	17	32	29	20	18	4	15	14	27	32	44	30	25	22	25	25	25	18	11	11	19	18	11	21.5
Greensburg.....	Maximum	51	40	35	37	44	55	25	20	40	47	46	36	25	21	28	33	55	65	69	39	35	35	46	36	55	31	36	34	30	29	38.0	
	Minimum	32	18	13	27	23	21	13	8	18	33	27	16	-8	-7	-1	32	49	33	31	19	19	31	22	29	14	12	20	12	11	5	19.2	
Grove City.....	Maximum	47	42	38	32	41	47	20	17	37	42	37	34	31	10	21	28	45	62	65	34	33	32	42	30	40	28	31	27	21	19	34.0	
	Minimum	25	14	11	17	21	19	9	1	2	10	25	11	3	-9	5	-14	27	44	29	29	15	14	25	12	16	11	10	15	11	8	13.8	
Hamburg.....	Maximum	46	36	32	35	35	57	31	22	41	45	46	34	34	24	36	33	36	42	59	52	40	36	44	42	30	30	37	34	28	29	30	37.2
	Minimum	28	20	19	19	15	29	18	10	12	25	30	19	16	3	15	9	24	29	39	26	18	21	26	23	25	20	33	34	28	29	30	37.2
Harrisburg.....	Maximum	42	41	33	36	54	56	33	23	41	48	38	35	36	21	38	33	33	63	63	46	34	33	46	33	35	31	32	33	27	27	37.8	
	Minimum	31	23	19	25	21	25	15	12	22	33	31	21	8	5	21	16	27	33	35	30	25	26	28	25	26	21	24	22	22	17	22.9	
Hawley.....	Maximum	33	38	31	31	29	57	29	20	33	48	43	31	28	13	30	23	27	33	27	61	60	40	31	35	39	35	26	27	25	19	23	33.0
	Minimum	18	24	14	20	3	26	16	9	13	29	19	20	13	-2	10	-2	16	26	35	14	12	15	26	17	17	8	17	12	15	13	15.8	
Huntingdon.....	Maximum	44	44	35	37	34	46	29	22	43	50	40	39	29	15	30	33	34	54	63	43	36	31	43	36	39	30	32	31	25	27	24	36.1
	Minimum	28	23	16	22	11	24	16	8	13	34	29	19	8	1	14	4	26	37	22	15	15	26	19	25	17	3	23	18	19	18	18.5	
Johnstown.....	Maximum	43	47	36	47	35	59	45	25	44	54	48	35	42	27	43	36	35	50	65	48	44	35	47	44	38	34	39	37	31	32	27	40.9
	Minimum	23	24	12	26	13	28	20	10	13	30	25	19	21	3	14	8	25	29	34	16	17	15	23	21	24	14	13	25	19	19	14	19.3
Lawrenceville.....	Maximum	41	42	32	32	35	55	22	40	47	37	35	32	18	29	30	37	62	56	37	30	32	41	31									

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXIV. FEBRUARY, 1929.

GENERAL SUMMARY.

Temperatures and precipitation for February averaged near to normal, there being a very slight excess in each element. Moderately cold periods centered about the 5th, 13th, and 21st respectively with no unusually low temperatures reported. The warmest periods were immediately preceding and following the last cold period. Moderately heavy snows occurred in the western and northern counties on the 6th and 7th, while the heaviest snowfall for the month was general on the 19th, 20th, and 21st. The snowfall for the month was above the February average in nearly all parts of the State, but it melted quickly in most places, and the ground was bare during the greater portion of the month. Each heavy snow caused temporary delays in traffic, but the roads were generally opened within from 36 to 48 hours. Moderately heavy rains were general near the end of the month, and caused the ice to break in most of the streams. Ice jams caused flood stages in the Allegheny river below Kittanning and at intervals down the river to Pittsburgh with only slight damage reported. A flood stage was also reached in the Schuylkill at Reading with no damage reported. Near flood stages were attained in all river districts. Light to moderate glaze storms occurred on the 6th and 10th, being most pronounced in the southwestern part of the State. The ice deposit was not heavy enough to cause much wire trouble. Little progress was made in outdoor work during the month. The ice harvest, which is chiefly carried on in the Poconos, was unusually good during last half of the month, and the ice houses were filled with a fine quality of ice. The winter grains suffered some damage by freezing and thawing while the ground was bare of snow.

TEMPERATURE.

The mean temperature for the State, as determined from reports of 85 stations, was 28.0°, or 0.3° higher than the normal for February. The highest monthly mean was 35.3°, at Philadelphia Weather Bureau, and the lowest 21.8°, at Gouldsboro. The highest temperature recorded during the month was 69°, at Claysville on the 27th, while the lowest, -20°, occurred at Brookville on the 20th. The greatest daily range of temperature was 50°, at Hawley and also at Lawrenceville, on the 24th.

PRECIPITATION.

The average precipitation for the State as shown from reports of 133 stations, was 2.87 inches, which is 0.21 inch greater than the normal for February. The greatest monthly total was 5.17 inches, at Mount Pocono, and the least 1.36 inches, at Erie. The greatest amount recorded in any 24 consecutive hours was 1.98 inches, at Pottstown on the 25-26th. Snowfall for the State averaged 11.7 inches, which is 1.3 inches above the monthly normal. The greatest total snowfall was 25.0 inches, at Carlisle, and the greatest 24-hour amount was 12.0 inches at West Chester on the 21st.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			† Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	Highest	Direction
Erie.....	82.7	296.6	28	74	73	74	7,603	11.3	37	se.
Harrisburg.....	180.7	299.7	60	73	54	58	4,101	6.1	26	nw.
Philadelphia.....	204.2	299.7	68	75	62	65	8,251	12.3	34	nw.
Pittsburgh.....	82.1	298.2	28	79	70	70	5,977	8.9	44	se.
Reading.....	198.1	299.7	66	82	61	70	4,114	5.2	23	se.
Scranton.....	98.3	298.2	33	83	68	69	4,055	6.0	31	sw.

* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation			No. of days			
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy	.01 inch or more prec.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11	9
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12	9
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14	11
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14	12
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15	9
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8	6
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13	11
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13	9
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12	9
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13	12
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14	11
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9	8
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12	10
1903.....	30.5	68	-17	4.49	6.13	1.90	10	7	11	10
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12	11
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10	8
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9	7
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9	8
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12	11
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15	14
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12	11
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15	10
1912.....	27.4	69	-27	2.20	4.05	0.37	11	8	10	8
1913.....	23.7	67	-9	1.84	4.61	0.88	12	5	11	9
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11	10
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14	9
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14	12
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10	9
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10	11
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12	11
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12	10
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10	10
1923.....	24.6	58	-20	2.16	4.80	0.65	8	8	12	12
1924.....	26.9	70	-25	2.94	5.16	1.27	11	7	11	10
1925.....	35.6	71	-11	2.16	4.61	0.55	11	7	10	8
1926.....	28.7	65	-13	4.06	7.29	1.34	7	6	15	12
1927.....	35.0	69	-8	3.48	5.94	1.25	7	8	13	13
1928.....	30.3	65	-11	3.42	5.39	1.62	10	7	12	11
1929.....	28.0	69	-20	2.87	5.17	1.36	10	8	10	9

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.8	4.9	28	2.3	24	18
Phillipsburg.....	Delaware.....	2.9	6.8	28	1.4	4	22
Mauch Chunk.....	Lehigh.....	-2.9	-0.2	26	-3.4	3	12
Wilkes-Barre.....	Susquehanna.....	3.8	14.1	28	2.7	23	26
Williamsport.....	Susquehanna.....	1.8	9.6	28	0.8	16	20
Harrisburg.....	Susquehanna.....	5.1	9.2	28	4.3	25	17
Greensboro.....	Allegheny.....	12.8	29.9	27	10.9	5	22
West Newton.....	Youghiogheny.....	11.7	27	1.4	1	20	
Lock No. 4.....	Monongahela.....	15.2	29.4	27	13.2	25	81
Pittsburgh.....	Ohio.....	12.1	25.3	27	10.5	25	25
Beaver Dam.....	Ohio.....	9.1	28.0	28	5.8	6	80

Climatological Data for February, 1929

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	17	29.2	.....	56	18	5	23	28	3.25	+0.24	1.09	8.2	9	14	10	4	ne.	John A. Frick.
Altoona.....	Blair.....	1,615	42	25.1	-0.7	48	25†	-1	13	33	2.43	+0.32	0.86	21.0	9	12	6	10	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. S. W. Frost.
Bellefonte.....	Center.....	1,050	24	24.0	.....	53	25	-3	5	44	2.28	-0.24	0.79	8.9	8	5	10	13	w.	U. S. Weather Bureau.
Bethlehem.....	Northampton.....	364	45	32.4	+2.6	55	18†	13	20†	28	3.73	+0.24	1.19	12.5	8	15	3	10	w.	Lehigh University.
Carlisle.....	Cumberland.....	467	62	29.9	+0.5	56	18	0	24	44	3.43	+0.46	0.98	25.0	8	18	0	10	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	32	28.9	-0.2	57	25	-2	24	43	2.67	-0.01	0.81	10.5	9	12	8	8	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	33	25.9	0.0	52	25	4	4†	33	2.83	+0.53	1.12	13.5	7	17	3	8	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	29	29.7	-1.1	56	27	6	24	39	2.95	+0.04	0.80	14.2	9	10	9	9	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	19	25.6	-1.9	58	25	-5	20	42	1.89	-0.80	0.88	10.0	6	7	12	9	e.	E. W. Hess.
Coatesville.....	Chester.....	380	41	29.3	-0.1	58	18	4	24	37	4.58	+0.48	1.83	13.5	8	12	11	5	ne.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	19	28.6	-1.2	56	25	4	23	34	3.15	+0.23	1.07	11.4	8	15	7	7	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	41	24.2	-0.5	51	25	-9	20	45	3.06	+0.19	0.95	17.5	7	10	6	12	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	28	31.4	+3.3	58	18	6	24	37	2.89	-0.27	1.05	12.4	6	17	3	8	w.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	14	24.2	.....	49	25	1	23	33	3.09	.....	0.75	18.6	12	6	11	11	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	22	32.8	+3.1	58	18	3	24	36	3.00	-0.10	1.30	8.2	7	22	2	4	sw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	55	31.2	+0.9	58	18	8	24	33	2.96	+0.15	1.00	11.2	7	12	9	7	nw.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	25	27.0	+1.7	55	25	-5	24	48	2.68	-0.79	0.80	19.0	8	15	5	8	w.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	5	21.8	.....	45	18†	-12	24	46	2.62	-1.11	0.55	11.7	12	11	6	11	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	36	29.6	+0.8	56	18†	0	23†	41	3.39	0.00	1.60	9.0	6	15	6	7	w.	State Sanatorium.
Hanover.....	York.....	600	25	33.1	+1.4	61	18†	11	23	34	3.38	+0.64	1.11	15.0	7	18	5	5	n.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	59	30.8	+0.6	55	18	13	20	26	3.21	+0.25	1.06	11.6	9	8	15	7	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	10	25.0	.....	51	18	-10	24	50	3.16	.....	1.05	14.5	10	14	5	9	w.	Mrs. Della M. Pennell.
Holtwood.....	Lancaster.....	200	14	31.6	.....	56	19	16	5†	30	2.94	+0.37	0.72	10.8	7	14	9	5	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	41	27.6	-0.8	54	25	-2	5	46	2.91	+0.07	0.89	11.3	9	8	9	11	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	18	29.8	-0.3	58	27	1	4	45	2.02	-0.72	0.61	7.2	6	5	10	13	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	41	30.3	+0.5	61	18	-3	24	43	3.42	+0.74	1.27	12.0	6	16	7	5	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	31	24.4	+1.4	51	25	-15	23	50	1.85	+0.02	0.50	15.0	6	10	8	10	sw.	C. P. Darling.
Lebanon.....	Lebanon.....	469	84	29.6	+0.9	58	18	11	23†	31	2.37	-1.10	0.78	5.3	8	18	6	4	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	54	28.2	+2.4	53	25	0	24	44	3.33	+0.54	1.13	12.0	10	11	8	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	39	28.5	+1.4	50	25†	3	5	34	2.41	+0.44	1.05	14.5	9	6	11	11	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	14	29.2	-0.9	56	25	1	5	41	2.62	+0.18	0.83	10.0	8	18	6	4	sw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	38	28.0	+1.0	57	18	-2	24	43	3.09	-0.78	1.05	14.5	7	14	7	7	s.	R. K. Wintermute.
Midlinton.....	Juniata.....	445	25	28.0	+1.3	51	18	4	5	37	2.38	+0.04	0.81	9.0	8	9	4	15	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	26	23.8	+3.5	47	25	-5	23	37	2.30	+0.23	1.00	13.0	5	7	3	18	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	25	22.2	+1.5	48	26	-6	23	26	5.17	+2.26	1.20	20.0	10	12	7	9	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	17	26.2	+0.5	52	25	-7	23	40	2.32	-0.05	0.87	8.6	7	11	8	9	n.	H. O. Hacker.
Narberth.....	Montgomery.....	300	10	31.8	.....	59	18	13	20†	32	4.24	.....	1.45	9.8	9	14	5	9	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	40	29.1	0.0	59	18	1	24	48	3.71	.....	0.70	9.0	9	18	4	6	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	12	28.3	.....	51	18†	-2	24	39	2.56	.....	0.90	9.5	7	0	13	15	ne.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	58	35.3	+1.3	58	18	17	20	29	4.24	+0.92	1.38	8.2	8	11	5	9	nw.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	5	35.2	.....	58	18	17	20	29	4.38	.....	1.39	11.1	8	12	11	5	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	13	33.6	+0.3	58	18	15	20	30	3.78	+0.56	1.38	7.2	9	11	2	15	.....	Commandant, Navy Yard.
Phila-Point Breeze.....	Philadelphia.....	90	4	34.4	.....	58	18	18	20	30	3.97	.....	1.42	8.2	6	15	7	8	sw.	Atlantic Refining Co.
Phoenixville.....	Chester.....	100	18	32.8	+1.0	60	18	10	5†	38	4.80	+1.59	1.70	10.6	7	14	8	6	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	44	29.8	+1.6	60	25	-5	24	46	3.56	-0.20	1.23	8.4	8	12	9	7	nw.	John E. Benner.
Reading.....	Berks.....	325	59	32.6	+3.8	57	18	13	24	30	3.76	+0.34	1.51	11.3	7	12	9	7	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	34	28.3	+1.0	52	27	7	5	32	1.85	-1.19	0.55	7.5	8	2	8	18	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	39	29.2	+2.1	55	25	2	24	39	2.68	-0.26	0.82	10.5	11	17	3	8	w.	Dr. George E. Fisher.
Shawmont.....	Philadelphia.....	51	33	32.8	.....	57	18	12	24	34	3.91	+0.73	1.30	8.3	9	11	12	5	nw.	W. S. Guiles.
State College.....	Center.....	1,217	44	25.8	+0.3	53	25	1	20	36	2.53	-0.26	0.86	10.3	8	3	12	8	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	13	25.8	-1.4	52	18†	-2	24	46	3.11	+0.12	1.25	10.5	7	13	4	11	nw.	State Normal School.
Stowanda.....	Bradford.....	754	34	25.0	+1.4	51	18	-11	23	47	2.09	+0.18	0.69	10.2	10	9	3	16	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	63	23.8	-0.8	49	25	-8	23	47	1.79	-0.56	0.48	17.8	9	20	3	5	w.	George W. Hill.
West Chester.....	Chester.....	455	91	33.0	+2.2	59	18	13	23	36	4.29	+0.39	1.25	14.2	7	14	9	5	sw.	Joseph W. Belt.
Williamsport.....	Lycoming.....	521	42	27.3	+1.2	49	18	6	23	35	2.72	+0.16	1.13	9.5	11	13	4	11	nw.	Miss Veronica E. April.
York.....	York.....	400	41	30.6	+1.0	60	18	-1	23	43	2.89	-0.14	0.91	13.0	6	16	5	7	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	36	27.6	-5.0	50	26	-4	20	34	2.63	+0.32	1.11	8.0	11	5	4	19	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,460	14	27.6	.....	52	25	-6	20	40	2.69	.....	0.52	12.5	12	5	11	12	w.	Bradford Electric Co.
Brookville.....	Jefferson.....	1,173	38	22.5	-1.8	55	25	-20	20	48	2.94	+0.49	0.90	15.5	7	14	7	7	.....	John Fawcett.
Butler.....	Butler.....	1,152	4	26.0	.....	56	27	-9	20	29	2.51	.....	1.25	15.0	5	9	3	16	.....	William C. Faust.
Claysville.....	Washington.....	1,150	25	28.3	-1.5	69	27	-8												

Daily Precipitation for February, 1929																																		
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.04					.04	1.05			T										.19	.43	.20				.60	.49	.21			3.25		
Altoona	Juniata					.01	.16	.35		.12											.17	.05	.35				.86		.36			2.43		
Ansonia	W. Br. Susq.	T.						.47		T.	.15					.01				.09	.20		.22	.03	T.			.45	.10	.05		1.77		
Arendtsville	Lower Susq.																																	
Baker's Summit	Juniata					.54																.71					.83		.43			2.51		
Bellefonte	W. Br. Susq.	T.	T.	T.		T.	.42	.04		.18	T.	T.	T.	T.	T.						.23	T.	.40	.02	T.		T.	.79	T.	.20		2.28		
Bethlehem	Lehigh	.25					.05	1.10		T.												.16	.61					1.19	.05	.32		3.73		
Blossville	Lower Susq.						.30			T.											.20		.75				.48		.20			1.93		
Carlisle	Lower Susq.					T.	.15	.68		T.											T.	.40	.64			T.	.98	T.	.58			3.43		
Catawissa	N. Br. Susq.						.48	.02		.09												.30	.05	.60			.02	.79		.32		2.67		
Center Hall	Susquehanna						.15															.38	.10	.68				1.12		.86		2.83		
Chambersburg	Potomac	T.				.03	.19	.38		.01											.03	.27	.80					.67		.57		2.95		
Clearfield	W. Br. Susq.		T.			T.	.03	.08	T.	T.											.40		.20				.88	T.	.30			1.89		
Coatesville	Lower Del.						.12	.67		.20												.18	1.15				1.83	.05	.38			4.58		
Colebrook	Lower Susq.	T.					.16	.44		.02											.04	.20	.85				1.07		.37			3.15		
Conshohocken	Schuylkill						.18	1.17		.20	.07											1.02	.88				1.30	.04	.30			5.16		
Cresskill	Juniata		.12				.58														.35		.81				.73		.22			2.81		
Doylestown	Lower Del.					T.	1.15		.04	.16												.04	1.04				1.66		.21			4.30		
Driftwood	W. Br. Susq.						.05	1.15	.05	.19											.24	.30	.20				.80	.29	.12			3.39		
Emporium	do.						.39		.22		T.					.30					.60		.50					.95	.10			3.06		
Ephrata	Lower Susq.	T.					.06	.55														.13	.86				1.05	T.	.24			2.89		
Forest City	N. Br. Susq.	T.	T.	T.				.72	.02	.58													.55					.35	.35	.12		2.69		
Freeland	Lehigh	.20		.01	T.		.07	.75	T.	T.	.05	T.	T.	T.	.01							.56	.61	T.	.01			.30	.40	.12		3.09		
George School	Lower Del.						.03	1.00			.10											.05	.40					1.30		.12		3.00		
Gettysburg	Potomac						.24	.61		T.												.14	1.00					.61	.01	.35		2.96		
Girardville	Lower Susq.	.03					.25	.18		.06				.01	.01						.30	.10	.72	.01				.88		.30		2.85		
Gordon	Lower Susq.	.10						.43		.05				.10								.45	.45					.80		.30		2.68		
Gouldsboro	Lehigh		.09				.05	.54			.28			.18								.28	.36		.09			.30		.25	.10	2.62		
Graterford	Schuylkill						.06	.61			.37											.02	.48			.09			.86		.42	2.82		
Hamburg	Schuylkill						.10	.45														.20	.60					1.60		.44		3.39		
Hanover	Lower Susq.	T.					.10	.62						T.								.13	1.06				T.	1.11	.01	.35		3.38		
Harrisburg	do.						.55	.19		T.											.22	.02	.71				.02	1.04	.01	.45		3.21		
Hawley	Upper Del.	.01					.01	.94		.10	.10	T.		T.	T.							.40	.30	.25	T.			.46	.59			3.16		
Hollisterville	Upper Del.	T.	T.	T.			T.	.94		.12	.11	T.	T.	T.	T.							.43	.25	.24	.03			.37	.58	T.		3.07		
Holtwood	Lower Susq.						.03	.72		T.												.10	.60					.45	.64	.40		2.94		
Huntingdon	Juniata						.06	.46		.08	.01			T.							.13	.10	.58					.89		.60		2.91		
Hyndman	Potomac	T.					.25	.36													T.	.02	.61					.43		.35		2.02		
Lakeville	Upper Del.	.02						.84	T.	.19	.13											.39	.34	.20	.02			.59	.70	T.		3.42		
Lancaster	Lower Susq.	.10					.65															.10	1.00				1.27		.30			3.42		
Lansford	Lehigh	T.					*	.67														.24	.18	.13				.52	.47	.13		2.34		
Lawrenceville	N. Br. Susq.	T.					T.	.20		.10	T.											.35	.40					.50		.30		1.85		
Lebanon	Lower Susq.		T.				T.			.01											.19	.51	.08				.78	.40	.32	.08		2.37		
Lewisburg	W. Br. Susq.						.15	.68	.02	.13												.04	.20	.62				1.13	.01	.35		3.33		
Lloyd	do.						.04	.38														.16	.71					.44		.19		1.92		
Lock Haven	do.						.04	.13		.22	.02											.17	.06	.44				1.05		.28		2.41		
Lylesburg	Susquehanna						.06	.49		.02												.02	.33	.54				.83		.33		2.62		
Mauch Chunk	Lehigh						.03	.69		T.												.10	.30	.62				1.05		.30		3.09		
Mifflintown	Juniata						.05	.47		.01												.08	.05	.54				.81		.37		2.88		
Montrose	N. Br. Susq.	T.	T.	T.						.35											.25	.50						1.00		.20		2.30		
Morris Run	N. Br. Susq.	.04	.03	.04				.66		.26	.04											.32	.08	.32	.03			.73		.22		2.77		
Mount Pocono	Upper Del.						.60	.10		.06				T.	T.	T.						.06	.45	.90			1.10	1.20	.30	.40		5.17		
Muncy Valley	W. Br. Susq.	T.					.05	.38		.26												.07		.56	T.				.87		.13		2.32	
Narberth	Lower Del.						.06	1.22		.25	.01											.09	.74					.87		.03		4.24		
Neshaminy	Lower Del.						*	.91			.25											.10	.65	.25				1.45	.03	.39		3.71		
New Park	Lower Susq.						.05	.86														.13	1.20					.91	.05	.57		3.77		
Palmerston	Lehigh						.17	.36		T.												.09	.02	.90	T.			.78		.24		2.56		
Papack	Upper Del.							.91		.06													.36	*	.57	.14			.32	.55	.20		3.11	
Philadelphia	***																																	

Daily Precipitation for February, 1929—Continued from page 8

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam	Ohio	.05						.55		.25	.04				.05					.15	.18	.20	.01					1.11		.04			2.63
Beaver Falls	Beaver	.07	T.	T.	T.	T.	T.	.51		.24	.06	T.			.03					.12	.11	.24	.01	T.				1.15	T.	.05			2.59
Bradford	Allegheny		.05					.40		.16	.05			.05		.10		.08		.50		.30			.52		.43		.05				2.69
Brookville	do	T.	T.		T.			.75	T.	.04	T.	T.	T.	T.	.15						.35		.60					.90		.15			2.94
Butler	Ohio							*	1.25											.20		1.00						.06				2.51	
Claysville	do	T.	T.	T.			.30	.32		.05	T.									.19	.10	.35			T.		.75		.30			2.36	
Cloett	Allegheny		T.				.64			.30					T.					.40		.24	T.			T.	.60		.34			2.52	
Clymer	Conemaugh						T.	.44	T.	.38	.09				T.					.15	.30	.20	T.				.97		.37			2.90	
Confluence	Youghiogheny	.12	T.	T.			T.	.23		.08	T.	.03									.60	.50	T.				.46	.10	.20			2.32	
Coraopolis	Ohio	.05	T.	T.	T.	T.		.49		.20	.02	T.	T.		.01	T.				.07	.20	.33	T.	T.			.96	.01	.11			2.45	
Corry	Allegheny	.02	.03	.10			.05	.75	.01	.28	.15	.08	.05		.05			.01		.32		.20	.07				.45		.01			2.63	
Coudersport	do	.01	.02				T.	.05		.18	.07	T.	T.		.06					.33		.58	.02				.49		.22			2.03	
Creekside	Allegheny		.02					.35	*	.36											.31	*	.33	.01			.81		.34			2.53	
Derry	Conemaugh		T.			T.	.08	.67		.26	.50									.20	.10	.13			T.		.78		.46			3.18	
Donora	Monongahela	.05						.94		.17			.10		T.	.06				.10	.15	.30	.20				.75	T.	.34			3.16	
Ebensburg	Conemaugh							.30		.10										.30		.50					.84		.34			2.38	
Elk Lick	Youghiogheny						.30	.20												.40		.20					.50	.12				2.12	
Falls Creek	Allegheny	.02	.03	.01				.40	.02	.39	.03	.02		.07						.46		.23	.02				.95		.18			2.83	
Franklin	Allegheny	.02		.02	T.			.58		.18	.05	T.	T.							.11	.33	.17	.07	T.			.82	.04	.17			2.56	
Freeport	do	.03					T.	.77		.17	.10				.01					.03	.24	.24					1.00		.24			2.83	
Greensboro	Monongahela	.04	T.					.84		.04	.20										.52	.46	.01				.44	.04	.27			2.86	
Greensburg	Youghiogheny						.31	.45	T.	.69	.07		.02		T.					.17	.15	.43	.01			T.	.75		.56			3.61	
Greenville	Beaver	.03	.02	.03	T.	T.	T.	.42	T.	.18					T.					.26		.12			T.	.70		.04				1.80	
Grove City	Beaver		.10	.03	.10		.05	.40	.01	.14	.07	.01	.05							.43		.13	.01	T.			.96		.05			2.53	
Herr's Isl. Dam	Ohio	.09	T.	T.	T.		T.	.63		.12	.01		T.							.20	.08	.31	T.	T.		T.	.84		.36			2.81	
Ingram	Ohio	T.	T.	T.	T.			.22	.57	.01	.22	T.		T.						.18	.12	.18	T.				.73		.38			2.74	
Irwin	Youghiogheny	T.	.03	T.				.32	.47	.01	.25	.07										.18											
Johnstown	Conemaugh																																
Kregar	Youghiogheny	.03	.03	.05		T.	1.04		.05	.14		.02			T.					.40	.24	.06					.60	.08	.13	.22			3.09
Linesville	Beaver																																
Lock No. 4	Monongahela	.08	T.	T.	T.			.85	.01	.10	.17		T.							T.	.29	.41	.04				.69	.07	.25			2.96	
Lycippus	Conemaugh	T.	T.							.21										.22	.16	.21				T.	.89		.33			2.02	
Meadville	Allegheny		.02	.20				.13	.10	.18	.10	.03	.10							.25		.11					.45		.33			1.67	
Mount Lebanon	Ohio	T.	T.	T.		T.	.62	.15		.30										.25	.10	.25			T.	.78		.33			2.78		
New Castle	Beaver	.03	.02	.02	.02	T.		.51	.01	.21	.17	.01		.01	.01	.01	.01	T.		.23	.11	.18	.03	.01	.02	.57	1.05	.09				3.33	
Newell	Monongahela		.01	.01			.20	.69		.08		.02										.50					.65		.25			2.41	
Parkers Landing	Allegheny	.10	T.	.05	T.	T.	T.	.60		.20	T.	T.	T.		.10	.05				.10	.30	.30	.10	T.	T.		1.10	T.	.05			3.05	
Pennline	Beaver			.03	.01	T.		.53		.22	.03									.07	.03	.09		.03		.02	.60	.03				1.69	
Pittsburgh	Ohio	T.	T.	T.	T.		.72	.01	.01	.19	T.	T.		T.		T.				.31	T.	.33	T.	T.		.06	.74	T.	.25			2.62	
Ridgway	Allegheny		.02	T.	T.	T.		.94	.02	.22	.07		.10		.14					.30	T.	.13	.08				.92		.12			3.08	
Saltsburg	Conemaugh	.10		.01	T.		.01	.52	.01	.30	T.		.01	T.						.31	T.	.40	.02	T.			.80	T.	.38			2.87	
Sharon	Beaver		T.	T.	.02			.53		.09		T.		.02						.09	.07	.16		T.			.93		.14			2.05	
Somerset	Youghiogheny	.05	.06	T.		T.	T.	.40		.12	T.				T.						.44	.40	T.	T.			.58		.38			2.43	
Springdale	Allegheny	.05	.01		.02	T.	.01	.64		.20	.11		.01		.01					.02	.18	.23	.03	T.	T.		.88	.05	.19			2.69	
Uniontown	Monongahela	.02					.38	.17	T.	.15	.06									.25	.25	.02					.34		.28			1.92	
Unity Reservoir	Youghiogheny						.12	.43	T.	.25	.08		T.							.26	.15	.35	T.			T.	.70		.45			2.79	
Vandergrift	Conemaugh						.48	.04	.05	.26										.26		.21				.01	.89		.25			2.45	
Warren	Allegheny	.03	.01					.32		.12						.04				.39		.13	.05	.08			.25		.01			1.38	
Washington	Ohio																																
Westford	Beaver	T.	.10	.03				.04		.22		.23								.29	.30						1.38						2.59
West Newton	Youghiogheny	.10		.06				.80		.11	.19									T.	.26	.41					.69	.03	.22			2.87	
Zellenople	Ohio	.20						.15		.27					.06					.16	.15	.20	.02				.20					1.41	
Lake Drainage.																																	
Erie***	Lake Erie	T.	.01	.02			.33	T.	.05	.14	.03	T.	.04	T.	.03	T.				.29		.01	.02	.02		T.	.37	T.	T.			1.36	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

* Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Stations

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	30	30	29	35	36	39	46	44	43	38	33	27	30	37	41	48	49	56	40	25	30	38	30	39	58	40	58	36			38.4
	Minimum	19	19	15	15	11	16	31	33	34	19	17	14	15	16	19	22	24	31	13	13	13	18	5	11	32	30	33	29			32.1
Altoona.....	Maximum	23	21	23	27	23	31	35	37	36	34	25	21	22	33	37	38	44	44	36	23	30	34	26	45	48	41	48	37			30.9
	Minimum	12	10	14	8	2	22	30	25	32	16	0	12	-1	10	19	24	21	24	23	0	11	23	10	12	26	35	34	31			17.8
Beaver Dam.....	Maximum	22	25	25	26	35	39	38	38	38	34	24	24	-3	33	36	41	45	44	33	20	33	33	31	45	47	59	58	44			35.8
	Minimum	15	14	16	13	8	29	32	23	32	17	5	12	12	26	15	21	22	26	18	-4	15	25	7	11	28	38	35	32			19.4
Bellefonte.....	Maximum	23	24	34	28	33	36	36	39	35	34	24	20	23	31	36	40	41	44	29	24	31	34	25	42	58	43	42	33			33.5
	Minimum	15	13	7	-1	-3	26	30	26	31	16	8	8	4	12	19	13	12	17	13	-2	13	8	6	-2	20	35	32	26			14.4
Brookville.....	Maximum	25	23	24	33	36	38	33	36	37	27	27	22	28	36	37	41	39	43	24	-2	33	38	28	47	55	50	43	36			34.4
	Minimum	12	14	15	-4	-6	27	25	25	25	15	8	3	4	15	8	7	6	12	8	-20	14	-7	-4	-1	18	33	30	20			10.6
Butler.....	Maximum	22	21	30	26	40	38	35	36	38	36	26	26	28	32	34	40	38	44	35	20	28	28	30	27	51	55	56	43			34.4
	Minimum	13	14	15	16	20	28	20	26	28	8	2	6	8	23	12	22	18	26	19	-9	14	15	10	8	25	40	36	32			17.7
Carlisle.....	Maximum	31	29	33	35	33	43	48	43	38	33	29	29	29	35	43	45	48	56	50	33	34	42	36	44	53	45	55	49			40.2
	Minimum	22	17	18	10	3	27	32	28	28	27	12	18	10	19	12	24	21	21	23	10	15	25	10	0	17	34	33	34			19.9
Catawissa.....	Maximum	31	31	37	37	39	38	42	45	37	38	34	27	28	34	43	47	47	56	29	30	39	40	32	41	57	47	54	51			39.9
	Minimum	15	13	16	6	6	28	30	29	31	28	12	13	6	19	18	20	15	28	27	7	10	17	0	-2	20	35	34	31			18.1
Chambersburg.....	Maximum	28	28	30	31	27	32	41	44	38	37	32	28	28	38	45	44	47	55	45	37	32	40	35	45	52	39	56	46			38.6
	Minimum	18	14	17	11	11	25	32	28	33	25	12	18	14	18	21	25	21	21	27	12	15	26	14	6	18	34	31	31			20.8
Claysville.....	Maximum	25	24	28	26	35	38	37	42	42	35	27	27	36	37	42	44	51	43	34	23	33	35	35	49	51	60	69	41			38.2
	Minimum	14	10	13	1	6	28	31	28	32	13	8	9	10	25	16	22	22	29	18	-8	15	24	7	16	25	41	32	32			18.4
Clearfield.....	Maximum	26	25	34	35	36	36	34	38	36	34	37	24	24	35	39	42	44	45	38	22	38	32	28	46	58	45	44	39			36.2
	Minimum	13	13	15	3	3	24	30	25	20	24	5	11	2	17	19	17	16	12	8	-5	18	5	2	4	21	33	33	31			15.0
Coatesville.....	Maximum	29	30	33	34	35	37	44	45	43	42	32	28	31	39	43	45	48	58	53	35	30	42	36	41	54	44	52	45			40.3
	Minimum	16	16	14	8	7	30	35	26	31	25	12	15	10	19	13	23	20	22	25	12	15	10	7	4	23	36	34	35			19.4
Corry.....	Maximum	20	28	23	30	34	39	40	30	35	30	22	19	30	31	32	33	34	34	23	20	27	27	25	42	54	50	50	39			32.2
	Minimum	10	10	12	12	-3	24	27	24	27	11	11	9	12	12	14	18	22	20	14	-13	3	10	-2	5	32	33	32	29			14.6
Emporium.....	Maximum	24	23	26	29	31	36	36	36	35	25	19	25	19	29	33	37	35	43	28	20	29	34	26	44	51	46	48	37			32.9
	Minimum	15	15	14	5	-4	27	31	27	33	21	14	7	3	19	21	12	9	14	14	-9	10	11	-6	-1	30	38	36	31			15.6
Erie.....	Maximum	19	22	21	22	35	40	35	36	34	26	19	17	26	31	30	35	39	43	25	14	28	27	23	40	40	55	40	35			30.6
	Minimum	16	17	15	13	15	29	28	27	26	16	13	9	8	21	19	24	31	21	6	-1	11	10	10	16	34	35	31	29			18.9
Franklin.....	Maximum	20	22	22	36	34	39	34	35	37	26	23	19	30	31	35	39	39	39	24	25	30	29	27	41	50	55	39	38			32.8
	Minimum	14	14	15	16	7	8	30	27	26	21	10	11	4	11	15	14	20	14	17	-6	-7	8	8	10	29	34	31			15.1	
Freeland.....	Maximum	23	21	25	23	28	30	39	42	38	35	24	24	24	32	33	36	40	46	38	17	33	38	27	38	49	40	42	37			32.9
	Minimum	10	8	10	10	7	20	29	22	30	18	8	5	4	14	16	21	20	24	16	3	3	16	1	5	25	30	33	27			15.5
Gettysburg.....	Maximum	29	29	31	32	31	34	43	44	42	39	33	31	30	37	46	44	48	58	52	40	35	42	38	41	52	45	56	49			40.4
	Minimum	17	15	19	11	10	28	32	28	32	29	15	18	13	19	23	27	23	29	31	14	11	26	14	8	23	35	30	35			22.0
Greensburg.....	Maximum	22	21	25	27	34	38	35	43	38	34	25	22	34	34	39	40	47	45	33	22	31	33	30	45	54	58	57	41			36.0
	Minimum	14	12	15	15	15	27	32	26	33	16	7	12	8	25	22	27	34	31	20	0	15	15	11	18	29	43	35	32			21.0
Grove City.....	Maximum	23	22	21	27	33	37	35	35	35	31	29	27	28	32	34	38	42	45	29	29	32	35	31	43	53	55	54	39			34.8
	Minimum	13	12	14	15	9	25	28	25	30	16	3	9	7	12	15	23	23	27	15	-10	11	18	-4	5	29	39	33	30			16.9
Hamburg.....	Maximum	28	29	32	34	34	33	44	43	40	40	36	28	27	35	41	45	48	55	50	37	31	36	35	41	55	51	51	47			39.5
	Minimum	18	17	16	18	8	28	32	31	30	28	18	12	10	22	14	21	17	23	27	12	14	11	0	0	19	36	33	33			19.6
Harrisburg.....	Maximum	28	28	30	30	34	35	44	41	40	40	33	27	30	36	42	45	47	55	40	21	33	40	31	43	54	40	53	43			38.0
	Minimum	20	18	20	19	16	28	35	32	35	24	18	19	16	23	23	29	24	33	18	13	14	22	16	17	28	36	33	33			23.7
Hawley.....	Maximum	23	22	31	30	33	29	39	38	37	36	28	25	25	32	36	42	41	51	46	21	26	37	31	40	48	44	49	42			35.1
	Minimum	12	14	9	14	-6	21	28	28	32	24	4	10	0	15	20	17	11	24	20	3	2	14	-4	-10	24	31	32	31			15.0
Huntingdon.....	Maximum	27	25	28	36	30	34	39	41	37	37	29	24	27	35	42	43	46	50	46	27	32	39	30	49	54	44	48	42			37.2
	Minimum	14	15	16	-1	-2	25	33	29	32	22	6	16	2	13	21	20	13	18	24	5	14	29	14	3	22	35	34	32			18.0
Johnstown.....	Maximum																															
	Minimum																															
Lancaster.....	Maximum	33	32	35	37	37	35	46	47	45	41	36	34	30	41	47	48	53	61	55	42	35	44	34	40	54	48	54	53			42.8
	Minimum	16	14	12	10	8	28	31	26	27	29	13	12	10	13	12	22	15	21	24	10	15	10	5	-3	24	32	31	32			17.8
Lawrenceville.....	Maximum	28	24	26	32	35	38	39	38	35	35	28	27	24	30	38	43	37	48	37	21	31	34	27	46	51	45	41	40			34.9
	Minimum	16	12	12	-2	-8	22	32	25	21	22	15	5	3	14	20	13	12	27	12	-6	-3	19	-15	-4	34	30	34	30			14.0
Lebanon.....	Maximum	29	29	31	35	34	37	43	44	39	32	31	26	28																		


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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. MARCH, 1929. No. 3

## GENERAL SUMMARY.

March was unusually mild, although no heat records were broken. Only one cold period, from the 8th to 10th inclusive, occurred during the month, the temperatures being almost constantly above the normal at other times. The maximum temperature of 89° has been exceeded only once during the last 42 years, although the State mean temperature has been exceeded four times in that period. The frost did not penetrate the soil deeply at any time, and there was very little in the ground after the middle of the month. The rainfall averaged about three-fourths of the March normal, while the snowfall was less than two-thirds of the normal at most places. Wheat fields had very little snow covering during the month, but the grain suffered very little damage in consequence as the frost did not heave the top soil. Building and construction work made unusually good progress for the season of the year, being favored by much fair weather with temperatures mostly above freezing. In Philadelphia it was possible to pour concrete most of the time with little danger of damage by freezing. Light to moderate general rains, supplemented by melting snows over the upper portions of the watershed, caused a sharp rise in many of the streams about the middle of the month, but no material damage was reported. The month was comparatively free from severe or damaging storms. High winds did some damage in a few places during the passage of a moderately intense storm on the 5th, 6th, and 7th, but the weather conditions as a whole were much milder and more agreeable than are common to the month of March.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 86 stations, was 43.7°, which is 6.2° in excess of the March normal. The highest monthly mean was 48.6°, at Hanover, and the lowest 35.4°, at Mount Pocono. Extremes for the month ranged from a maximum of 89°, at Vandergrift on the 25th, to a minimum of 5° below zero at Montrose on the 9th. The greatest daily range of temperature was 56°, at Hyndman on the 11th.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations taken at 130 well-distributed stations, was 2.69 inches, or 0.85 inch less than the normal for March. The greatest monthly total was 4.50 inches, at Warren, while the least, 1.37 inches, was recorded at Ebensburg. The greatest amount recorded in any 24 consecutive hours was 1.42 inches, at Uniontown on the 5th. The average snowfall for the month was 4.4 inches; a deficiency of 2.6 inches as compared with the March normal. The greatest total snowfall for the month was 22.0 inches, at Freeland, which station also reported the greatest 24-hour fall: 13.0 inches on the 2d.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           | Date      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 140.2                   | 370.6                    | 38                     | 75               | 65       | 72      | 10,809                   | 14.5                        | 58        | sw.       |
| Harrisburg.....   | 218.8                   | 371.0                    | 59                     | 70               | 55       | 56      | 5,306                    | 7.1                         | 33        | sw.       |
| Philadelphia..... | 237.3                   | 371.0                    | 64                     | 77               | 62       | 68      | 10,662                   | 14.3                        | 48        | nw.       |
| Pittsburgh.....   | 168.9                   | 370.8                    | 46                     | 71               | 57       | 57      | 8,604                    | 11.5                        | 50        | w.        |
| Reading.....      | 221.6                   | 371.0                    | 59                     | 71               | 59       | 64      | 5,150                    | 6.9                         | 32        | nw.       |
| Scranton.....     | 158.2                   | 370.8                    | 43                     | 79               | 66       | 69      | 5,382                    | 7.2                         | 33        | w.        |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR MARCH

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888..... | 31.2        | 72      | -6     | 3.55          | 6.39     | 1.70  | .....       | .....         | .....  | 11                     |
| 1889..... | 39.0        | 76      | 4      | 2.90          | 5.44     | 1.44  | 10          | 8             | 13     | 9                      |
| 1890..... | 33.2        | 76      | -18    | 5.15          | 8.31     | 2.90  | 6           | 10            | 15     | 16                     |
| 1891..... | 33.8        | 60      | -14    | 5.10          | 8.39     | 2.44  | 7           | 8             | 16     | 14                     |
| 1892..... | 31.8        | 66      | -4     | 4.14          | 6.61     | 2.04  | 11          | 7             | 13     | 12                     |
| 1893..... | 34.8        | 74      | 3      | 2.52          | 5.09     | 0.71  | 9           | 9             | 13     | 11                     |
| 1894..... | 43.2        | 84      | -2     | 1.63          | 2.90     | 0.24  | 12          | 11            | 8      | 8                      |
| 1895..... | 33.8        | 70      | -4     | 2.31          | 4.03     | 0.99  | 10          | 10            | 11     | 11                     |
| 1896..... | 30.6        | 69      | -18    | 4.51          | 7.98     | 1.77  | 11          | 8             | 12     | 11                     |
| 1897..... | 39.0        | 75      | -5     | 3.22          | 5.86     | 1.01  | 11          | 7             | 13     | 13                     |
| 1898..... | 44.0        | 83      | 4      | 4.31          | 8.40     | 2.06  | 10          | 8             | 13     | 12                     |
| 1899..... | 36.3        | 75      | 3      | 4.87          | 10.30    | 1.91  | 5           | 9             | 17     | 14                     |
| 1900..... | 31.2        | 66      | -23    | 3.61          | 7.31     | 2.25  | 10          | 9             | 12     | 10                     |
| 1901..... | 37.4        | 80      | -11    | 4.14          | 7.21     | 1.52  | 7           | 10            | 14     | 13                     |
| 1902..... | 41.3        | 78      | 2      | 3.98          | 7.50     | 6.77  | 10          | 9             | 12     | 11                     |
| 1903..... | 46.4        | 83      | 14     | 4.52          | 5.81     | 2.82  | 10          | 7             | 14     | 11                     |
| 1904..... | 36.0        | 80      | -2     | 4.29          | 7.02     | 2.10  | 9           | 8             | 14     | 12                     |
| 1905..... | 39.0        | 86      | -18    | 3.86          | 6.57     | 1.40  | 12          | 8             | 11     | 11                     |
| 1906..... | 31.7        | 68      | -13    | 4.46          | 7.37     | 2.76  | 8           | 7             | 16     | 14                     |
| 1907..... | 41.8        | 92      | -10    | 4.26          | 8.20     | 1.08  | 11          | 8             | 12     | 12                     |
| 1908..... | 40.7        | 83      | -4     | 4.76          | 10.00    | 1.58  | 11          | 8             | 12     | 12                     |
| 1909..... | 35.6        | 74      | -5     | 3.07          | 4.90     | 1.33  | 10          | 9             | 12     | 12                     |
| 1910..... | 44.9        | 88      | 5      | 0.56          | 1.33     | 0.00  | 15          | 10            | 6      | 5                      |
| 1911..... | 35.0        | 73      | -18    | 2.57          | 4.75     | 1.15  | 11          | 8             | 12     | 13                     |
| 1912..... | 33.6        | 72      | -3     | 5.06          | 9.71     | 1.80  | 10          | 8             | 13     | 13                     |
| 1913..... | 42.1        | 81      | -7     | 5.27          | 9.08     | 2.75  | 9           | 8             | 14     | 13                     |
| 1914..... | 34.2        | 79      | -12    | 2.61          | 5.08     | 0.88  | 10          | 3             | 13     | 10                     |
| 1915..... | 32.9        | 62      | -4     | 1.28          | 2.80     | 0.57  | 15          | 8             | 8      | 7                      |
| 1916..... | 30.7        | 84      | -31    | 4.12          | 8.84     | 2.20  | 12          | 8             | 11     | 12                     |
| 1917..... | 37.3        | 84      | -12    | 3.68          | 6.06     | 1.43  | 11          | 8             | 12     | 14                     |
| 1918..... | 41.6        | 82      | 0      | 2.34          | 4.98     | 0.87  | 17          | 7             | 7      | 8                      |
| 1919..... | 41.1        | 79      | 6      | 3.57          | 6.99     | 1.29  | 15          | 7             | 9      | 10                     |
| 1920..... | 38.7        | 80      | -11    | 2.83          | 9.70     | 1.06  | 16          | 7             | 8      | 9                      |
| 1921..... | 43.0        | 88      | 7      | 3.33          | 6.15     | 1.05  | 12          | 9             | 10     | 14                     |
| 1922..... | 40.0        | 81      | -5     | 4.37          | 6.65     | 2.30  | 11          | 6             | 14     | 14                     |
| 1923..... | 37.0        | 80      | -8     | 2.49          | 5.21     | 0.70  | 13          | 8             | 10     | 11                     |
| 1924..... | 36.1        | 78      | 8      | 2.83          | 8.97     | 0.59  | 12          | 9             | 10     | 9                      |
| 1925..... | 40.9        | 79      | -15    | 2.56          | 4.13     | 1.47  | 14          | 6             | 11     | 10                     |
| 1926..... | 33.1        | 79      | -16    | 1.91          | 3.94     | 0.58  | 14          | 8             | 9      | 10                     |
| 1927..... | 42.0        | 82      | -6     | 2.61          | 5.43     | 0.69  | 13          | 7             | 11     | 10                     |
| 1928..... | 37.0        | 82      | -3     | 3.24          | 5.45     | 1.65  | 12          | 9             | 10     | 11                     |
| 1929..... | 43.7        | 89      | -5     | 2.69          | 4.50     | 1.37  | 12          | 8             | 11     | 12                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |      | Highest stage |      | Lowest stage |      | Flood stage |      |
|-------------------|-------------------|------------|------|---------------|------|--------------|------|-------------|------|
|                   |                   | Mean       | Date | Highest       | Date | Lowest       | Date | Flood       | Date |
| Port Jervis.....  | Delaware.....     | 5.3        | 9.0  | 17            | 3.6  | 12           | 18   |             |      |
| Phillipsburg..... | Delaware.....     | 7.4        | 14.0 | 16            | 4.3  | 31           | 22   |             |      |
| Mauch Chunk.....  | Lehigh.....       | 0.8        | 1.9  | 15            | -2.1 | 30           | 12   |             |      |
| Wilkes-Barre..... | Susquehanna.....  | 11.5       | 23.3 | 17            | 6.1  | 12           | 20   |             |      |
| Williamsport..... | Susquehanna.....  | 7.7        | 15.9 | 15            | 4.8  | 12           | 20   |             |      |
| Harrisburg.....   | Susquehanna.....  | 8.0        | 14.0 | 17            | 5.5  | 13           | 17   |             |      |
| Greensboro.....   | Allegheny.....    | 14.6       | 26.6 | 7             | 11.6 | 31           | 22   |             |      |
| West Newton.....  | Youghiogheny..... | 3.8        | 7.5  | 7             | 1.4  | 30           | 20   |             |      |
| Lock No. 4.....   | Monongahela.....  | 17.3       | 27.3 | 7             | 13.9 | 25           | 31   |             |      |
| Pittsburgh.....   | Ohio.....         | 16.8       | 21.9 | 7             | 13.4 | 12           | 25   |             |      |
| Beaver Dam.....   | Ohio.....         | 16.7       | 24.6 | 1             | 10.5 | 12           | 30   |             |      |



## Climatological Data for March, 1929

| Stations            | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        | Precipitation, in inches |                      |       |                           | No. of days          |                           |                              |       | Observers |            |        |                              |
|---------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|--------------------------|----------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|-----------|------------|--------|------------------------------|
|                     |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date                     | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |           | Pt. cloudy | Cloudy | Prevailing direction of wind |
| Atlantic Drainage.  |              |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |           |            |        |                              |
| Allentown           | Lehigh       | 254             | 17                      | 43.6                         |                           | 75      | 22   | 12     | 10                       | 44                   | 2.54  | -1.44                     | 0.96                 | 3.2                       | 11                           | 18    | 9         | 4          | sw.    | John A. Frick.               |
| Altoona             | Blair        | 1,615           | 42                      | 42.8                         | +5.5                      | 74      | 24   | 4      | 10                       | 40                   | 2.22  | -0.48                     | 0.80                 | 5.0                       | 14                           | 14    | 3         | 14         | w.     | Lewis E. Biller.             |
| Arundelville        | Adams        | 700             | 5                       |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |           |            |        | Dr. S. W. Frost.             |
| Bellefonte          | Center       | 1,050           | 24                      | 40.8                         |                           | 75      | 24   | 7      | 10                       | 43                   | 1.83  | -1.97                     | 0.94                 | 7.1                       | 9                            | 8     | 9         | 14         | w.     | U. S. Weather Bureau.        |
| Bethlehem           | Northampton  | 364             | 45                      | 46.2                         | +6.6                      | 76      | 22   | 10     | 10                       | 34                   | 2.44  | -1.20                     | 0.78                 | 3.2                       | 10                           | 16    | 1         | 14         | w.     | Lehigh University.           |
| Carlisle            | Cumberland   | 467             | 62                      | 46.2                         | +8.7                      | 80      | 24   | 10     | 10                       | 46                   | 2.62  | -0.92                     | 1.05                 | 4.0                       | 12                           | 14    | 6         | 11         | s.     | Prof. C. E. Miller.          |
| Catawissa           | Columbia     | 520             | 32                      | 43.6                         | +6.0                      | 79      | 22   | 7      | 10                       | 47                   | 2.29  | -0.76                     | 0.92                 | 1.0                       | 7                            | 19    | 1         | 11         | s.     | H. H. Yetter.                |
| Center Hall         | Center       | 1,272           | 33                      | 40.4                         | +4.6                      | 80      | 24   | 5      | 10                       | 37                   | 1.86  | -1.39                     | 1.20                 | 8.0                       | 6                            | 17    | 7         | 7          | w.     | S. W. Smith.                 |
| Chambersburg        | Franklin     | 580             | 29                      | 41.8                         | +6.4                      | 77      | 24   | 11     | 10                       | 47                   | 2.87  | -0.13                     | 0.94                 | 1.0                       | 10                           | 8     | 10        | 13         | sw.    | William B. Spear.            |
| Clearfield          | Clearfield   | 1,120           | 19                      | 42.7                         | +5.2                      | 80      | 24   | 5      | 10                       | 42                   | 3.25  | -0.32                     | 0.70                 | 3.0                       | 16                           | 12    | 12        | 7          | w.     | E. W. Hess.                  |
| Coatesville         | Chester      | 380             | 41                      | 44.8                         | +5.4                      | 77      | 24   | 8      | 10                       | 44                   | 2.88  | -1.48                     | 0.86                 | 1.0                       | 10                           | 11    | 10        | 10         | w.     | Prof. W. T. Gordon.          |
| Colebrook           | Lebanon      | 560             | 19                      | 43.8                         | +3.2                      | 75      | 22   | 8      | 10                       | 41                   | 2.88  | -0.86                     | 1.02                 | 9.5                       | 11                           | 12    | 8         | 11         | w.     | Wm. A. Rorer.                |
| Emporium            | Cameron      | 1,050           | 41                      | 40.5                         | +5.5                      | 72      | 25   | 2      | 10                       | 37                   | 1.08  | +0.36                     | 1.01                 | 0.5                       | 12                           | 6     | 11        | 14         | w.     | T. B. Lloyd.                 |
| Ephrata             | Lancaster    | 380             | 28                      | 45.6                         | +6.6                      | 76      | 24   | 12     | 10                       | 39                   | 2.56  | -0.96                     | 0.96                 | 4.2                       | 10                           | 13    | 6         | 12         | w.     | Ira J. Keath.                |
| Freeland            | Luzerne      | 1,970           | 14                      | 38.8                         |                           | 70      | 22   | -2     | 10                       | 36                   | 3.75  |                           | 1.16                 | 22.0                      | 17                           | 10    | 6         | 15         | nw.    | Theo. Reichmann.             |
| George School       | Bucks        | 190             | 22                      | 46.3                         | +7.1                      | 78      | 22   | 10     | 10                       | 37                   | 1.69  | -1.77                     | 0.70                 | T.                        | 10                           | 19    | 4         | 8          | sw.    | Prof. N. W. Swayne           |
| Gettysburg          | Adams        | 553             | 55                      | 46.8                         | +7.6                      | 78      | 24   | 11     | 10                       | 37                   | 2.91  | -0.25                     | 1.12                 | 3.0                       | 11                           | 11    | 9         | 11         | s.     | Dr. Henry Stewart            |
| Gordon              | Schuylkill   | 840             | 25                      | 41.6                         | +5.7                      | 75      | 22   | 7      | 10                       | 43                   | 2.97  | -1.35                     | 1.00                 | 11.0                      | 11                           | 14    | 1         | 16         | w.     | Capt. J. G. Johnson          |
| Gouldsboro          | Wayne        | 1,875           | 5                       | 36.2                         |                           | 67      | 22   | -3     | 10                       | 35                   | 3.15  | -0.11                     | 0.62                 | 7.0                       | 10                           | 16    | 6         | 9          | sw.    | Gustav Holtz.                |
| Hamburg             | Berks        | 535             | 26                      | 43.4                         | +5.6                      | 74      | 22   | 10     | 10                       | 41                   | 2.69  | -1.45                     | 1.21                 | 4.0                       | 9                            | 14    | 8         | 9          | w.     | State Sanatorium.            |
| Hanover             | York         | 600             | 25                      | 48.6                         | +7.0                      | 81      | 24   | 11     | 10                       | 37                   | 2.85  | -0.30                     | 0.97                 | 4.0                       | 14                           | 16    | 4         | 11         | s.     | Thomas Y. Cooper.            |
| Harrisburg          | Dauphin      | 361             | 59                      | 45.8                         | +6.9                      | 78      | 24   | 13     | 10                       | 35                   | 2.19  | -0.85                     | 0.88                 | 5.0                       | 11                           | 10    | 9         | 12         | sw.    | U. S. Weather Bureau.        |
| Hawley              | Wayne        | 900             | 10                      | 40.2                         |                           | 70      | 22   | 5      | 10                       | 49                   | 2.46  |                           | 0.82                 | 7.0                       | 10                           | 13    | 10        | 8          | n.     | Mrs. Della M. Pennell.       |
| Holtwood            | Lancaster    | 200             | 14                      | 45.6                         |                           | 77      | 25   | 16     | 10                       | 31                   | 1.76  | -1.31                     | 0.54                 | 3.5                       | 11                           | 17    | 5         | 9          | sw.    | H. W. Lowy, C. E.            |
| Huntingdon          | Huntingdon   | 650             | 41                      | 43.8                         | +5.5                      | 77      | 24   | 6      | 10                       | 47                   | 2.33  | -1.23                     | 0.62                 | 2.0                       | 13                           | 11    | 8         | 12         | sw.    | Prof. W. J. Swigart.         |
| Hyndman             | Bedford      | 977             | 18                      | 45.4                         | +5.5                      | 82      | 24   | 9      | 10                       | 56                   | 1.88  | -1.47                     | 0.70                 |                           | 11                           | 8     | 8         | 15         | sw.    | John S. Madore.              |
| Lancaster           | Lancaster    | 255             | 41                      | 45.0                         | +7.0                      | 80      | 24   | 9      | 10                       | 50                   | 3.10  | -0.35                     | 1.40                 | T.                        | 10                           | 15    | 9         | 7          | w.     | Supt. of Water Works.        |
| Lawrenceville       | Tioga        | 1,000           | 31                      | 40.1                         | +6.1                      | 68      | 21   | 3      | 10                       | 40                   | 1.82  | -0.69                     | 0.55                 | 3.0                       | 7                            | 11    | 9         | 11         | nw.    | C. P. Darling.               |
| Lebanon             | Lebanon      | 469             | 88                      | 44.9                         | +6.3                      | 76      | 22   | 11     | 10                       | 40                   | 2.41  | -1.43                     | 0.70                 | 2.8                       | 9                            | 17    | 7         | 7          | sw.    | S. B. Benzing.               |
| Lewisburg           | Union        | 450             | 54                      | 44.8                         | +9.5                      | 76      | 22   | 10     | 10                       | 47                   | 2.07  | -1.45                     | 0.77                 | 4.5                       | 11                           | 8     | 11        | 12         | w.     | Prof. W. G. Owens.           |
| Lock Haven          | Clinton      | 560             | 39                      | 45.2                         | +7.4                      | 73      | 24   | 10     | 10                       | 41                   | 2.14  | -1.40                     | 0.46                 | 0.5                       | 13                           | 10    | 11        | 10         | nw.    | Joseph Beaver.               |
| Lykens              | Dauphin      | 630             | 14                      | 44.4                         | +4.9                      | 75      | 22   | 8      | 10                       | 43                   | 2.77  | -0.10                     | 0.98                 | 3.5                       | 8                            | 14    | 9         | 8          | nw.    | Susquehanna Collieries Co.   |
| Mauch Chunk         | Carbon       | 600             | 38                      | 41.2                         | +4.4                      | 77      | 22   | 6      | 10                       | 47                   | 3.48  | -1.02                     | 1.29                 | 6.0                       | 8                            | 15    | 6         | 10         | s.     | R. K. Wintemute.             |
| Midlinton           | Juniata      | 445             | 25                      | 38.1                         | +5.4                      | 75      | 24   | 10     | 10                       | 44                   | 2.33  | -0.83                     | 0.51                 | 2.5                       | 12                           | 12    | 7         | 12         | w.     | Wellington Smith.            |
| Montrose            | Susquehanna  | 1,720           | 26                      | 38.2                         | +7.1                      | 65      | 23   | -5     | 9                        | 38                   | 3.13  | +0.42                     | 0.60                 | 15.0                      | 12                           | 11    | 8         | 12         | w.     | Silas Jagger.                |
| Mt. Pocono          | Monroe       | 1,658           | 25                      | 35.4                         | +3.4                      | 68      | 23   | -2     | 10                       | 32                   | 2.56  | -1.20                     | 0.90                 | 13.0                      | 10                           | 17    | 3         | 11         | nw.    | Cecil J. Hoskinson.          |
| Muncy Valley        | Sullivan     | 1,045           | 17                      | 40.4                         | +4.4                      | 69      | 23   | -1     | 10                       | 48                   | 2.68  | +0.29                     | 0.55                 | 7.0                       | 11                           | 14    | 9         | 8          | sw.    | H. O. Hacker.                |
| Narberth            | Montgomery   | 300             | 10                      | 46.6                         |                           | 77      | 22   | 10     | 10                       | 37                   | 2.49  |                           | 0.81                 | 0.1                       | 11                           | 12    | 8         | 11         | sw.    | Charles Decker.              |
| Neshaminy Falls II  | Bucks        | 50              | 40                      | 44.4                         | +4.9                      | 79      | 22   | 9      | 10                       | 48                   | 2.57  |                           | 0.65                 | 0                         | 10                           | 15    | 5         | 11         | w.     | North Springfield Water Co.  |
| Palmerton           | Carbon       | 398             | 12                      | 42.6                         |                           | 74      | 22   | 10     | 10                       | 40                   | 1.81  |                           | 0.82                 | 2.6                       | 5                            | 8     | 13        | 10         | sw.    | New Jersey Zinc Co.          |
| Philadelphia        | Philadelphia | 114             | 58                      | 45.4                         | +7.6                      | 78      | 22   | 14     | 10                       | 30                   | 2.22  | -1.17                     | 0.92                 | T.                        | 10                           | 10    | 9         | 12         | sw.    | U. S. Weather Bureau.        |
| Philadelphia-Gtn.   | Philadelphia | 113             | 5                       | 48.2                         |                           | 76      | 22   | 14     | 10                       | 30                   | 2.16  |                           | 1.08                 | T.                        | 11                           | 15    | 7         | 9          | sw.    | Julius Bernstein.            |
| Phila. Navy Yard    | Philadelphia | 12              | 13                      | 46.6                         | +4.5                      | 78      | 24   | 13     | 10                       | 34                   | 2.38  | -0.99                     | 0.96                 | T.                        | 12                           | 10    | 6         | 15         | sw.    | Commandant, Navy Yard        |
| Phila. Point Breeze | Philadelphia | 90              | 4                       | 47.8                         |                           | 79      | 22   | 13     | 10                       | 36                   | 2.27  |                           | 0.98                 | T.                        | 10                           | 12    | 9         | 10         | sw.    | Atlantic Refining Co.        |
| Phoenixville        | Chester      | 100             | 18                      | 47.7                         | +7.1                      | 79      | 22   | 11     | 10                       | 42                   | 2.29  | -1.36                     | 0.75                 | T.                        | 9                            | 14    | 6         | 1          | sw.    | North Springfield Water Co.  |
| Quakertown          | Bucks        | 496             | 44                      | 44.4                         | +8.1                      | 76      | 22   | 9      | 10                       | 41                   | 2.40  | -1.31                     | 0.73                 | 0.8                       | 10                           | 12    | 9         | 1          | nw.    | John E. Benner.              |
| Reading             | Berks        | 325             | 59                      | 46.6                         | +6.6                      | 75      | 22   | 13     | 10                       | 32                   | 2.66  | -0.86                     | 1.08                 | 3.0                       | 10                           | 11    | 9         | 11         | nw.    | U. S. Weather Bureau.        |
| Scranton            | Lackawanna   | 805             | 34                      | 42.4                         | +6.7                      | 72      | 22   | 7      | 10                       | 34                   | 1.95  | -1.25                     | 0.70                 | 4.4                       | 14                           | 4     | 10        | 17         | sw.    | U. S. Weather Bureau.        |
| Selinsgrove         | Snyder       | 465             | 39                      | 43.0                         | +4.8                      | 74      | 22   | 9      | 10                       | 43                   | 2.42  | -1.35                     | 0.74                 | 5.4                       | 10                           | 15    | 5         | 11         | sw.    | Dr. George E. Fisher.        |
| Shawmont II         | Philadelphia | 51              | 33                      | 47.6                         |                           | 75      | 22   | 13     | 10                       | 34                   | 1.91  | -1.76                     | 0.70                 | T.                        | 10                           | 9     | 12        | 10         | nw.    | W. S. Guilés.                |
| State College       | Center       | 1,217           | 44                      | 42.6                         | +7.3                      | 75      | 31   | 6      | 10                       | 37                   | 1.67  | -1.61                     | 0.60                 | 3.3                       | 10                           | 9     | 17        | 5          | w.     | C. A. Kern.                  |
| Stroudsburg         | Monroe       | 500             | 13                      | 41.2                         | +4.4                      | 71      | 22   | 7      | 10                       | 44                   | 2.29  | -1.56                     | 0.93                 | 3.5                       | 7                            | 18    | 4         | 9          | nw.    | State Normal School.         |
| Towanda             | Bradford     | 754             | 34                      | 40.4                         | +6.0                      | 70      | 23   | 6      | 10                       | 41                   | 2.04  | -0.71                     | 0.65                 | 5.0                       | 12                           | 6     | 9         | 16         | s.     | Hiram E. Bull, C. E.         |
| Wellsboro           | Tioga        | 1,419           | 63                      | 38.0                         | +5.3                      | 65      | 21   | 2      | 10                       | 37                   | 1.52  | -1.73                     | 0.73                 | 6.9                       | 9                            | 21    | 4         | 6          | sw.    | George W. Hill.              |
| West Chester        | Chester      | 455             | 91                      | 47.2                         | +8.9                      | 76      | 22   | 11     | 10                       | 34                   | 2.53  | -1.54                     | 0.70                 | 3.0                       | 9                            | 13    | 11        | 7          | sw.    | Joseph W. Belt.              |
| Williamsport        | Lycoming     | 521             | 42                      | 43.2                         | +6.6                      | 72      | 22   | 9      | 10                       | 41                   | 2.23  | -1.12                     | 0.66                 | 0.5                       | 14                           | 13    | 5         | 13         | sw.    | Miss Veronica E. April.      |
| York                | York         | 400             | 41                      | 46.8                         | +7.4                      | 78      | 24   | 12     | 10                       | 45                   | 2.46  | -0.84                     | 0.96                 | 6.0                       | 11                           | 15    | 7         | 9          | n.     | York Water Co.               |
| Ohio Drainage.      |              |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |           |            |        |                              |
| Beaver Dam II       | Beaver       | 700             | 36                      | 45.6                         | +4.0                      | 83      | 25   | 9      | 10                       | 40                   | 2.67  | -0.88                     | 0.41                 | 1.5                       | 17                           | 8     | 6         | 17         | sw.    | U. S. Engineer.              |
| Bradford            | McKean       | 1,460           | 14                      | 44.2                         |                           | 72      | 25   | 8      | 10                       | 30                   | 3.95  |                           | 1.04                 | 4.0                       | 17                           | 7     | 13        | 11         | sw.    | Supt. Timber Pres. Plant.    |
| Brookville          | Jefferson    | 1,173           | 38                      | 38.6                         | +5.7                      | 83      | 25   | -2     | 10                       | 54                   | 3.41  | +0.85                     | 0.75                 | 3.0                       | 14                           | 20    | 3         | 8          | sw.    | John Fawcett.                |
| Butler              | Butler       | 1,152           | 4                       | 45.2                         |                           | 82      | 25   | 8      | 10                       | 40                   | 3.04  |                           | 0.67                 | 1.0                       | 12                           | 17    | 5         | 9          | w.     | William C. Faust.            |
| Claysville          | Washington   | 1,150           | 25                      | 48.0                         | +7.4                      | 87      | 25   | 7      | 10                       | 45                   | 2.50  | -0.82                     | 0.67                 | 5.0                       | 13                           | 17    | 5         | 9          | s.     | J. L. Melvin.                |
| Corry               | Erie         | 1,430           | 17                      | 40.8                         | +8.4                      | 75      | 25   | 2      | 10                       | 38                   | 4.38  | +1.11                     | 0.83                 | 7.4                       | 19                           | 1     |           |            |        |                              |



Daily Precipitation for March, 1929

| Stations           | Drainage Basin | Day of month |      |     |      |      |     |     |     |     |     |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |      | Total |      |
|--------------------|----------------|--------------|------|-----|------|------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2    | 3   | 4    | 5    | 6   | 7   | 8   | 9   | 10  | 11 | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |      |     |      |      |     |     |     |     |     |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Allentown          | Lehigh         | .07          | T    | .96 |      | .43  | .68 | T.  |     |     |     |    |    |     | .17 | T.  | .04 | .04 |     |     |    |     |     |     | .08 | .01 |     |     | .01 | T.  |     |      | .10   | 2.54 |
| Altoona            | Juniata        |              | .12  |     | .02  | .80  | .08 | .03 |     |     |     |    |    | .11 | .27 |     | .08 |     |     |     |    |     | .09 | .13 |     | .12 |     | .05 |     |     | .28 | .04  | 2.22  |      |
| Ansonia            | W. Br. Susq.   | .09          | .15  | .03 |      | .09  | .41 | .06 | T.  | T.  |     |    |    |     | .04 | .21 | .16 | T.  |     |     | T. | T.  |     | .14 | .14 | .04 |     | .45 | T.  |     |     | .08  | .03   | 2.12 |
| Arendtsville       | Lower Susq.    |              |      |     |      |      |     |     |     |     |     |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Baker's Summit     | Juniata        | .19          |      |     | 1.05 |      |     |     |     |     |     |    |    | .05 | .39 |     |     |     | .10 |     |    | .05 | .10 |     |     |     | .06 |     |     |     | .20 |      | 2.19  |      |
| Bellefonte         | W. Br. Susq.   | T.           | .25  |     | .02  | .94  | T.  | .03 | T.  | T.  |     |    |    | .11 | .12 | T.  | T.  | T.  |     | T.  | T. | T.  | .17 | T.  | T.  | T.  |     | .01 |     | T.  |     | .18  | T.    | 1.83 |
| Bethlehem          | Lehigh         | .01          | .78  | .06 | .04  | .63  | .53 | T.  |     |     |     |    |    |     | .20 |     | T.  |     |     |     |    |     |     | .06 |     |     | T.  | .01 |     | T.  |     | .12  | T.    | 2.44 |
| Blosserville       | Lower Susq.    |              | .65  |     | .25  | .35  | .38 |     |     |     |     |    |    | .27 | .38 | .05 |     |     |     | .10 |    |     |     |     |     |     |     | .05 |     |     | .05 |      | 2.44  |      |
| Carlisle           | Lower Susq.    | T.           | 1.05 |     | .10  | .68  | .22 | T.  |     | T.  |     |    |    | .05 | .21 | .04 | .05 |     |     |     | T. | .01 | .07 |     |     |     | .02 |     | T.  |     | .15 |      | 2.29  |      |
| Catawissa          | N. Br. Susq.   |              | .90  |     | .20  | .72  |     | T.  |     |     |     |    |    | .04 | .07 | T.  |     |     |     |     |    |     | .11 |     |     |     |     |     |     |     | .25 |      | 2.29  |      |
| Center Hall        | Susquehanna    |              | .38  |     | .03  | 1.20 |     | T.  |     |     |     |    |    | .01 | .21 |     |     |     |     |     |    |     |     | .03 |     |     |     |     |     |     |     |      | 1.86  |      |
| Chambersburg       | Potomac        |              | .69  |     | .11  | .94  | .27 | T.  |     | T.  |     |    |    | .24 | .26 |     | .04 |     |     |     |    |     |     | .16 |     |     |     | .02 |     | T.  |     | .14  |       | 2.87 |
| Clearfield         | W. Br. Susq.   |              | .30  |     | .12  | .70  | .15 | .05 |     | .01 |     |    |    | .07 | .60 | .05 | .06 |     |     |     |    |     | .05 | .14 | .05 | .10 | .30 |     |     |     | .50 | T.   | 3.25  |      |
| Coatesville        | Lower Del.     |              | .86  |     | .37  | .78  | .21 |     |     |     |     |    |    | .10 | .12 | .11 |     |     |     |     |    |     |     | .14 |     |     | .12 |     |     |     | .07 |      | 2.88  |      |
| Colebrook          | Lower Susq.    |              | .95  |     | .23  | 1.02 | .04 |     |     | T.  |     |    |    | .12 | .13 | .04 | .02 |     |     |     |    |     | .13 | .02 | T.  | T.  |     | .07 |     |     | .11 |      | 2.88  |      |
| Conshohocken       | Schuylkill     |              | .48  |     | .61  | .75  | .07 | T.  |     |     |     |    |    | .06 | .08 | .03 | T.  |     |     |     |    |     | T.  | .12 |     |     | .35 |     | T.  |     | .09 |      | 2.64  |      |
| Cresson            | Juniata        | .20          |      |     | 1.21 |      |     |     |     |     |     |    |    | .10 | .17 |     | .05 |     |     |     |    |     | .24 |     |     |     | .13 |     |     |     |     |      | 2.10  |      |
| Doylestown         | Lower Del.     |              | .48  |     | .14  | .79  | .16 |     |     |     |     |    |    | T.  | .13 | T.  | .02 |     |     |     |    |     |     | .15 |     | T.  | .02 |     | T.  |     | .12 |      | 2.01  |      |
| Driftwood          | W. Br. Susq.   | .25          | .15  |     |      | .25  | .60 |     |     | T.  |     |    |    |     | .30 | .16 | .16 | .08 |     |     |    | .02 |     | .06 | .32 |     |     | .30 | .15 | .30 | .10 |      | 3.20  |      |
| Emporium           | do.            |              | T.   |     | T.   | 1.01 |     | T.  |     | .05 |     |    |    | .30 | .36 | T.  | .37 | T.  |     |     | T. | .05 | .35 | .47 | .10 | .08 |     | .41 |     | .53 | T.  | 4.08 |       |      |
| Ephrata            | Lower Susq.    |              | .96  |     | .21  | .75  | .18 |     |     | T.  |     |    |    | .02 | .17 | .02 |     |     |     |     |    |     |     | .06 | T.  |     | .05 | T.  |     |     | .14 |      | 2.56  |      |
| Forest City        | N. Br. Susq.   |              | .41  | .04 | .05  | .26  | .05 | T.  |     |     |     |    |    |     | .48 | .35 |     |     |     |     |    |     |     | .25 |     |     |     | .38 |     |     | .07 |      | T.    | 2.34 |
| Freeland           | Lehigh         | .21          | .22  | .94 |      | .38  | .85 | .18 | .08 | T.  | .08 |    |    |     | .14 | .12 | .14 | .02 |     |     |    |     |     | .06 |     |     |     | .01 | .02 | T.  | T.  | .01  | .29   | 3.75 |
| George School      | Lower Del.     |              | .25  |     | .15  | .70  | .05 |     |     |     |     |    |    | .10 |     |     | .06 |     |     |     |    |     |     | .12 |     | T.  | .17 |     | .01 |     | .08 |      | 1.69  |      |
| Gettysburg         | Potomac        |              | .86  |     | .19  | .94  | .18 |     |     | T.  |     |    |    | .24 | .27 | .01 | .02 |     |     |     |    |     | T.  | .05 |     |     | T.  | .02 |     | T.  |     | .13  |       | 2.91 |
| Girardville        | Lower Susq.    |              | 1.34 |     | .36  | .66  | .06 |     | .02 | .02 |     |    |    | .18 | .07 | .11 | .08 |     |     |     |    |     | .06 | .02 |     |     | T.  |     | .02 |     | .14 |      | 3.14  |      |
| Gordon             | Lower Susq.    |              | 1.00 |     | .06  | .68  | .42 |     |     |     |     |    |    | .03 | .22 | .04 | .13 |     |     |     |    |     |     |     |     |     |     |     |     |     |     | T.   | 2.97  |      |
| Gouldsboro         | Lehigh         |              |      | .36 |      | .52  | .60 | .18 | .27 | .10 |     |    |    |     | .62 |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | .31 | T.   | 3.15  |      |
| Graterford         | Schuylkill     |              | .54  |     | .16  | .73  | .18 |     |     |     |     |    |    | .02 | .16 |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     | .25  |       | 1.97 |
| Hamburg            | Schuylkill     |              | .65  |     | .14  | 1.07 |     |     |     |     |     |    |    |     | .42 | .08 | .11 |     |     |     |    |     |     |     |     |     |     |     |     |     |     | .14  |       | 2.69 |
| Hanover            | Lower Susq.    |              | .83  |     | .16  | .97  | .30 | T.  | T.  | T.  |     |    |    | .10 | .15 | .02 | .04 |     |     |     |    |     | .01 | .06 |     | .01 | .10 |     | .02 |     | .08 |      | 2.85  |      |
| Harrisburg         | do.            |              | .88  |     | .11  | .60  |     | T.  | T.  | T.  |     |    |    | .11 | .08 | .04 | .02 |     |     |     | T. | .13 | T.  | .01 | T.  |     | .06 |     | T.  |     | .15 |      | 2.19  |      |
| Hawley             | Upper Del.     | .20          |      | .53 |      | .21  | .82 |     | T.  |     | T.  |    |    |     | .14 | .16 | .06 | T.  |     |     |    |     |     | .18 | T.  |     |     | .12 | T.  |     |     | .04  | 2.46  |      |
| Hollisterville     | Upper Del.     | .18          | T.   | .62 |      | .14  | .71 | T.  | .03 |     | T.  |    |    |     | .07 | .09 | .13 |     |     |     |    |     |     | .19 |     |     | .13 |     |     |     |     | .10  | 2.39  |      |
| Holtwood           | Lower Susq.    | .04          | .20  | .31 |      | .54  | .25 |     |     |     |     |    |    | .14 |     | .04 |     |     |     |     |    |     |     | .08 | .03 |     | T.  | .15 |     |     |     | .03  | 1.76  |      |
| Huntingdon         | Juniata        | .25          |      | .04 | .62  | .47  |     |     |     | T.  |     |    |    | .23 | .25 |     | .06 |     |     |     |    |     | .01 | .15 |     |     | .08 |     | .02 |     | .13 | .02  | 2.33  |      |
| Hyndman            | Potomac        |              | .11  |     | .05  | .70  | .28 | T.  | .02 |     |     |    |    | .18 | .14 |     | .04 | T.  |     |     | T. | .01 | .11 |     |     | T.  |     |     |     | .24 |     | 1.88 |       |      |
| Lakeville          | Upper Del.     | .25          |      | .58 |      | .18  | .75 |     | T.  | T.  | T.  |    |    |     | .17 | .14 | .15 | .04 |     |     |    |     |     | .23 |     |     |     | .14 |     |     | T.  | .05  | 2.68  |      |
| Laurelton          | Lower Susq.    |              | 1.40 |     | .07  | .78  | .46 |     |     | .05 |     |    |    | .04 | .11 | .05 |     |     |     |     |    |     |     |     |     |     |     |     |     |     | .08 |      | 3.10  |      |
| Lansford           | Lehigh         | .11          | .23  | .52 |      | .42  | .55 |     |     |     |     |    |    |     | .26 | .09 | .07 |     |     |     |    |     |     | .02 |     |     |     |     |     |     |     | .08  | 2.35  |      |
| Lawrenceville      | N. Br. Susq.   |              | .10  |     |      | .50  |     | T.  |     |     |     |    |    |     |     | .15 |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |      | 1.82  |      |
| Lebanon            | Lower Susq.    | .45          | .41  |     | .46  | .70  | T.  | T.  | T.  |     |     |    |    | .11 | .06 | T.  | T.  |     |     |     | T. | .11 | T.  |     | .37 |     | .05 | .55 |     | T.  | T.  | .08  | 2.41  |      |
| Lewisburg          | W. Br. Susq.   |              | .41  |     | .03  | .77  | .12 | .05 |     |     |     |    |    | T.  | .24 | .03 | .02 |     |     |     |    |     | T.  | .13 |     |     |     | .02 |     |     | .25 |      | 2.07  |      |
| Lloyd              | do.            |              | T.   |     | .18  | .31  | .08 |     |     |     |     |    |    |     | .28 | .21 |     |     |     |     | T. |     |     |     |     |     |     | .32 |     |     | .16 |      | 1.54  |      |
| Lock Haven         | do.            | .31          |      | .04 | .41  | .19  | .03 |     |     |     |     |    |    |     | .46 | .05 | .01 |     |     |     |    |     | .04 | .24 | .01 |     |     | .16 |     |     | .19 |      | 2.14  |      |
| Lykens             | Susquehanna    |              | .98  |     | T.   | .61  | .34 |     |     |     |     |    |    | T.  | .33 | .11 |     |     |     |     |    |     | T.  | .05 |     |     | T.  | .05 |     |     | .30 |      | 2.77  |      |
| Mauch Chunk        | Lehigh         | 1.29         |      |     | .22  | 1.02 | .23 | T.  |     |     |     |    |    | .10 | .40 | .06 |     |     |     |     |    |     |     |     |     |     |     |     |     |     | .16 |      | 3.48  |      |
| Millintown         | Juniata        | .42          |      | .04 | .47  | .15  | .11 |     | T.  |     |     |    |    | .15 | .28 | .02 | .11 |     |     |     |    |     | .01 | .11 |     |     |     |     |     |     | .46 |      | 2.33  |      |
| Montrose           | N. Br. Susq.   | .60          |      | .10 |      | .50  | .20 |     |     |     |     |    |    | .42 | .10 | .40 | .10 |     |     |     |    |     |     | .23 |     | .02 | .36 |     |     |     | .10 |      | 3.13  |      |
| Morris Run         | N. Br. Susq.   | .26          |      |     | .58  | .07  | .08 |     | .04 |     |     |    |    | .23 |     | .50 |     |     |     |     |    |     |     | .20 |     |     |     | .33 |     |     |     | .06  | 2.35  |      |
| Mount Pocono       | Upper Del.     | .70          | .20  |     | .25  | .60  | .20 | T.  |     | .10 |     |    |    |     | .20 | .16 |     |     |     |     |    |     |     | .06 |     |     |     |     |     |     | .09 |      | 2.56  |      |
| Muney Valley       | W. Br. Susq.   | .41          |      | T.  | .41  | .30  | .08 |     | .03 |     |     |    |    | T.  | .55 | .05 | .14 |     |     |     |    | T.  | .27 |     |     |     | .12 |     | T.  |     | .32 |      | 2.68  |      |
| Narberth           | Lower Del.     | .49          |      |     | .28  | .81  | .19 |     | T.  |     |     |    |    | .04 | .15 | .07 | .03 |     |     |     | </ |     |     |     |     |     |     |     |     |     |     |      |       |      |



## Daily Precipitation for March, 1929—Continued from page 13

| Stations           | Drainage Basin    | Day of month |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      | Total |
|--------------------|-------------------|--------------|-----|-----|-----|------|------|-----|-----|-----|----|----|----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------|-------|
|                    |                   | 1            | 2   | 3   | 4   | 5    | 6    | 7   | 8   | 9   | 10 | 11 | 12 | 13   | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22   | 23  | 24  | 25  | 26  | 27   | 28  | 29  | 30  | 31   |       |
| Ohio Drainage.     |                   |              |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      |       |
| Beaver Dam\|\|\| | Ohio.....         | .01          | .03 |     |     | .41  | .36  | .05 | .09 |     |    |    |    |      | .26 | .05 | .26 |     |     |     | .07 |     | .05  | .19 | .03 |     | .41 | .13  |     | .26 | .01 | 2.67 |       |
| Beaver Falls\|\|\| | Beaver.....       | T.           | .02 | T.  |     | .41  | .46  | T.  | .01 | T.  | T. |    |    |      | .24 | .14 | .34 | .02 |     |     | .07 |     | .06  | .10 | .09 |     | .39 | .08  |     | .19 | T.  | 2.62 |       |
| Bradford.....      | Allegheny.....    |              |     |     | .18 | .36  |      | .07 |     |     |    |    |    | .03  | .21 | .01 | .23 |     |     |     | .20 | .06 | 1.04 | .18 | .05 | .14 | .98 |      | .04 |     | .12 | .05  | 3.95  |
| Brookville.....    | do.....           | .12          | T.  |     |     | .75  |      | .10 |     | 1.  |    |    |    | .20  | .15 | .15 |     |     |     |     |     | .10 | .25  | .50 | .10 | .15 | .05 |      |     | .75 | .04 | 3.41 |       |
| Butler.....        | Ohio.....         | .25          |     |     | .06 | .67  |      |     |     |     |    |    |    | *    | .59 | .24 | .01 | T.  |     |     | .02 | .07 |      | .25 |     | .60 |     |      |     | .04 | .24 | 3.04 |       |
| Claysville.....    | do.....           | .06          | .29 |     | .14 | .67  |      |     | T.  |     |    |    |    | .14  | .04 |     | .09 | T.  |     |     |     | .07 | .28  | .07 | .23 |     | .23 |      |     | .19 | T.  | 2.50 |       |
| Cloett.....        | Allegheny.....    | .18          | .05 |     | .03 | .82  |      | T.  |     | .06 |    |    |    | .07  | .19 | .12 | .09 |     |     |     | .05 | .07 | .13  | .03 | .25 | .05 | .54 |      | T.  |     | .41 | .04  | 3.18  |
| Clymer\|\|\| | Conemaugh.....    |              | .26 |     | .06 | 1.24 |      | T.  |     | .15 |    |    |    | T.   | .24 |     | .05 | T.  |     |     | .03 |     | .03  | .14 |     |     | .37 |      | .03 |     | .57 |      | 3.17  |
| Confluence\|\|\| | Youghiogheny..... | .27          | .12 | .08 |     | .08  | 1.25 |     | .04 |     |    |    |    | .26  | .11 | .35 | .20 |     |     |     |     |     | .16  |     |     |     | .16 |      |     | .24 |     | 3.32 |       |
| Coraopolis\|\|\| | Ohio.....         | .02          | .21 |     |     | .37  | .39  | .01 | .03 | T.  |    |    |    | .31  | .05 | .27 |     |     |     |     | .10 |     | .05  | .10 | T.  |     | .42 | .16  |     | .26 | T.  | 2.75 |       |
| Corry.....         | Allegheny.....    | T.           | .07 |     | .27 | .17  |      | .44 |     |     |    |    |    | .15  | .22 | .01 | .07 |     | .46 | .42 | .83 | .06 | .14  | .08 | .56 | .02 | .03 |      |     | .19 | .19 | 4.38 |       |
| Coudersport.....   | do.....           |              | .28 |     |     | .51  |      | .17 |     | T.  |    |    |    | .46  | .01 | .33 | .01 |     |     |     | .12 |     | .55  | .47 | .05 |     | .51 |      | .02 |     | .22 |      | 3.71  |
| Creekside.....     | Allegheny.....    |              | .22 |     |     | *    | .81  |     |     | .04 |    |    |    |      | .36 |     | .02 |     |     |     |     | .03 | .18  |     |     |     | .46 |      | .02 |     | .51 | .02  | 2.62  |
| Derry.....         | Conemaugh.....    |              | .26 |     | .07 | 1.39 |      |     |     |     |    |    |    | .09  | .07 |     | T.  |     |     |     |     | .11 |      |     |     | .40 |     |      | .79 |     |     | 3.18 |       |
| Donora\|\|\| | Monongahela.....  | .07          | .23 |     |     | .04  | .40  | .85 |     |     |    |    |    | .02  | .14 | .01 | .01 |     | T.  |     |     |     | .23  |     |     | .26 |     |      | .23 |     |     | 2.49 |       |
| Ebensburg.....     | Conemaugh.....    | T.           | T.  |     | .15 | 1.10 |      |     |     |     |    |    |    | T.   | T.  | T.  |     |     |     |     |     | .02 | T.   |     |     | T.  |     |      | T.  |     | .10 | T.   | 1.37  |
| Elk Lick.....      | Youghiogheny..... | .30          |     |     | .50 | .25  | .80  | .30 |     |     |    |    |    | .12  |     |     | .25 |     |     |     |     |     | .03  | *   | .44 | .13 | *   | .52  |     |     | .44 |      | 2.52  |
| Falls Creek.....   | Allegheny.....    | .27          |     |     | .02 | .68  |      | .06 |     | .04 |    |    |    | *    | .45 |     | .40 |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      | 3.48  |
| Franklin\|\|\| | Allegheny.....    |              | .06 |     |     | .30  | .42  | .07 | .07 |     |    |    |    |      | .34 | .10 | .25 | .11 |     |     |     | .16 |      | .57 | .18 | .39 |     | .67  | .09 |     | .47 | .04  | 4.29  |
| Freeport\|\|\| | do.....           | .07          | .24 |     |     | .28  | .49  |     | .01 |     |    |    |    |      | .25 | .11 | .14 | .01 |     |     |     | .05 |      | .04 | .12 | .05 |     | .37  | .18 |     | .37 | .01  | 2.79  |
| Greensboro.....    | Monongahela.....  | .06          | .13 | .04 |     | .25  | 1.23 | .02 | .01 |     |    |    |    |      | .15 | .03 | .10 | .11 | T.  |     |     | .02 |      | T.  | .18 | T.  |     | T.   | .17 |     | .16 | T.   | 2.66  |
| Greensburg.....    | Youghiogheny..... | .04          | .25 |     | .06 | 1.40 | .02  | .15 | .17 | .03 | T. |    |    | .13  | .12 |     | .06 |     |     |     | .02 | .01 | .19  | .04 |     | .31 |     |      | T.  | .30 | .01 | 3.31 |       |
| Greenville.....    | Beaver.....       | .02          |     |     | .16 | .29  | T.   | .04 |     |     |    |    |    | .28  | .24 |     | .48 |     |     |     | .31 | T.  | .63  | .15 | .32 |     | .95 |      | .02 | .28 |     | 4.17 |       |
| Grove City.....    | Beaver.....       |              |     |     | .16 | .48  |      | .06 |     |     |    |    |    | 1.11 | .22 |     | .38 |     |     |     |     |     | .63  |     | .13 |     | .84 |      |     | .43 |     | 4.45 |       |
| Herrs Isl. Dam\|\|\| | Ohio.....         | .01          | .22 | .01 |     | .32  | .43  |     | .01 | T.  |    |    |    |      | .25 | .02 | .03 | .08 |     |     |     | .04 |      | .03 | .11 | T.  |     | .33  |     | T.  | .35 | T.   | 2.24  |
| Ingram.....        | Ohio.....         | .01          | .20 |     |     | .05  | .79  |     | .01 | .02 | T. |    |    | .17  | .07 |     | .13 |     |     |     | .05 | .07 | .13  | T.  |     |     | .48 |      | .01 | .26 |     | 2.45 |       |
| Irwin.....         | Youghiogheny..... | .03          | .21 |     | .07 | .35  | .07  | .01 |     |     |    |    |    | .15  | .09 |     |     |     |     |     |     |     | .32  | .11 |     |     | .17 |      |     | .27 | .02 | 1.87 |       |
| Johnstown.....     | Conemaugh.....    |              |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      | 3.28  |
| Kregar\|\|\| | Youghiogheny..... | .16          | .14 |     | .21 | 1.37 |      | .12 |     | .02 |    |    |    | .10  | .04 | .13 | .31 |     |     |     | .02 |     | T.   | .18 | T.  | T.  |     | .17  |     | .21 | .10 |      |       |
| Linesville\|\|\| | Beaver.....       |              |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      |       |
| Lock No. 4\|\|\| | Monongahela.....  | .08          | .36 | .03 |     | .31  | 1.05 | T.  | T.  | T.  |    |    |    |      | .15 | .05 | .02 | .02 |     |     |     | .01 |      | T.  | .23 | .02 |     | .01  | .21 |     | .32 | .02  | 2.89  |
| Lycippus.....      | Conemaugh.....    | .10          | .28 |     | .27 | 1.37 |      | .07 |     |     |    |    |    | .12  | .13 |     | .10 |     |     |     |     |     | .34  |     |     |     | .32 |      |     | .42 |     |      | 3.52  |
| Meadville.....     | Allegheny.....    |              |     |     | .20 | .10  |      | .03 |     |     |    |    |    | .10  | .30 |     | .55 |     |     |     | .70 | .59 | 1.03 | .12 | .17 |     | .33 |      |     | .22 |     | 3.94 |       |
| Mount Lebanon..... | Ohio.....         |              | .25 |     | .05 | .81  |      | T.  |     | T.  |    |    |    | .12  | .09 |     | .03 |     |     |     |     | .08 | .20  |     |     |     | .39 |      |     | .18 |     | 2.20 |       |
| New Castle\|\|\| | Beaver.....       | .05          |     |     |     | .37  | .57  | .05 | .01 | T.  |    |    |    | .22  | .06 | .22 | .05 |     |     |     | .18 | .03 | .26  | .31 | .05 | .02 | .51 | .06  |     | .31 | .01 | 3.34 |       |
| Newell.....        | Monongahela.....  | .03          | .26 |     | .05 | .05  | .58  |     |     |     |    |    |    | .12  | .07 |     | .05 |     |     |     |     |     | .12  | .15 |     | .18 |     |      |     | .18 |     | 1.84 |       |
| Parkers Landing\|\|\| | Allegheny.....    | T.           | .40 | T.  | T.  | .45  | .35  | .10 | T.  | T.  |    |    |    |      | .25 | .20 | .35 | .10 |     |     |     | .10 |      | .15 | .20 | .52 | T.  | .38  |     | .10 | .05 | 4.15 |       |
| Pennline\|\|\| | Beaver.....       |              |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      | 2.15  |
| Pittsburgh***      | Ohio.....         | .23          | T.  |     | .02 | .77  |      | .05 | .01 | T.  | T. |    |    | .15  | .05 | T.  | .06 |     |     |     | T.  | .02 | .03  | .10 | .01 | T.  | T.  | .44  |     | T.  | .03 | .17  | .01   |
| Ridgway.....       | Allegheny.....    |              |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      | 2.26  |
| Saltsburg\|\|\| | Conemaugh.....    | .17          | .05 | T.  |     | .19  | .55  |     | T.  | .05 | T. |    |    | .17  | .08 |     | T.  |     |     |     |     |     | T.   | .21 | T.  |     | .13 |      | .15 | .49 | .02 | 2.58 |       |
| Sharon\|\|\| | Beaver.....       |              |     |     |     | .28  | .14  |     | .01 |     |    |    |    | .40  | T.  | .30 |     |     |     |     |     | .15 |      | .25 | .15 |     | .90 |      |     |     |     |      |       |
| Somerset.....      | Youghiogheny..... | .08          | .14 |     | .08 | .29  | .68  | .08 | .06 | T.  |    |    |    | .20  | .15 |     | .25 | T.  |     |     |     |     | .10  | .15 |     |     | .10 |      | T.  | .38 |     | 2.74 |       |
| Springdale\|\|\| | Allegheny.....    | .15          | .28 | .01 |     | .32  | .51  | T.  | .02 | T.  |    |    |    | .30  | .08 |     | .03 | .03 |     |     |     | .03 |      | .06 | .16 |     | .30 | .14  | .01 | .26 | .08 |      | 3.19  |
| Uniontown.....     | Monongahela.....  | .09          | .28 |     | .06 | 1.42 | .16  | T.  |     |     |    |    |    | .08  | .07 |     | .47 | T.  |     |     | .02 | .02 | .09  | .11 |     | .15 |     |      | .17 |     |     | 3.12 |       |
| Unity Reservoir\|\|\| | Youghiogheny..... | .08          | .23 |     | .08 | 1.23 | .08  | .06 | .06 | .05 |    |    |    | .12  | .14 |     | .08 |     |     |     |     | T.  | .21  | .10 |     | .37 |     |      | .23 | T.  |     | 1.89 |       |
| Vandergrift\|\|\| | Conemaugh.....    | .16          |     |     | .02 | .78  |      | .01 |     |     |    |    |    | .02  | .04 | .01 |     |     |     |     |     | .07 | .08  |     |     | .40 |     |      |     |     | .30 |      | 4.50  |
| Warren.....        | Allegheny.....    |              | .06 |     | .10 | .52  |      | .25 | .06 | .02 |    |    |    | .43  |     | .32 |     |     |     |     |     | .28 | .10  | .90 | .10 | .06 | .12 | 1.00 |     | .10 |     |      |       |
| Washington\|\|\| | Ohio.....         |              |     |     |     |      |      |     | T.  |     |    |    |    |      | .43 | .40 |     |     | .71 |     |     |     | 1.00 |     | .34 |     | .85 |      | .14 |     |     | 4.21 |       |
| Westford\|\|\| | Beaver.....       |              |     |     | .03 |      |      |     |     |     |    |    |    |      | .17 | .03 |     |     |     |     |     |     | T.   | .20 | T.  |     | .04 | .17  |     | .24 | T.  | 2.03 |       |
| West Newton\|\|\| | Youghiogheny..... | .02          | .30 |     |     | .28  | .50  |     | .08 |     |    |    |    |      | .83 |     |     | .04 | .26 | .11 |     |     |      | .43 |     |     |     | .30  | .27 | .21 | .06 |      | 3.75  |
| Zelienople\|\|\| | Ohio.....         |              |     |     | .49 | .75  |      | T.  |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      |       |
| Lake Drainage.     |                   |              |     |     |     |      |      |     |     |     |    |    |    |      |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |      |       |
| Erie***            | Lake Erie.....    | T.           | T.  |     | .13 | .06  | .03  | .13 | .09 |     |    |    |    | .11  | T.  | .43 | .07 | T.  |     |     | .42 | .21 | .11  | .22 | T.  | .07 | .75 | .06  | .01 |     | .04 | .11  | 3.05  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

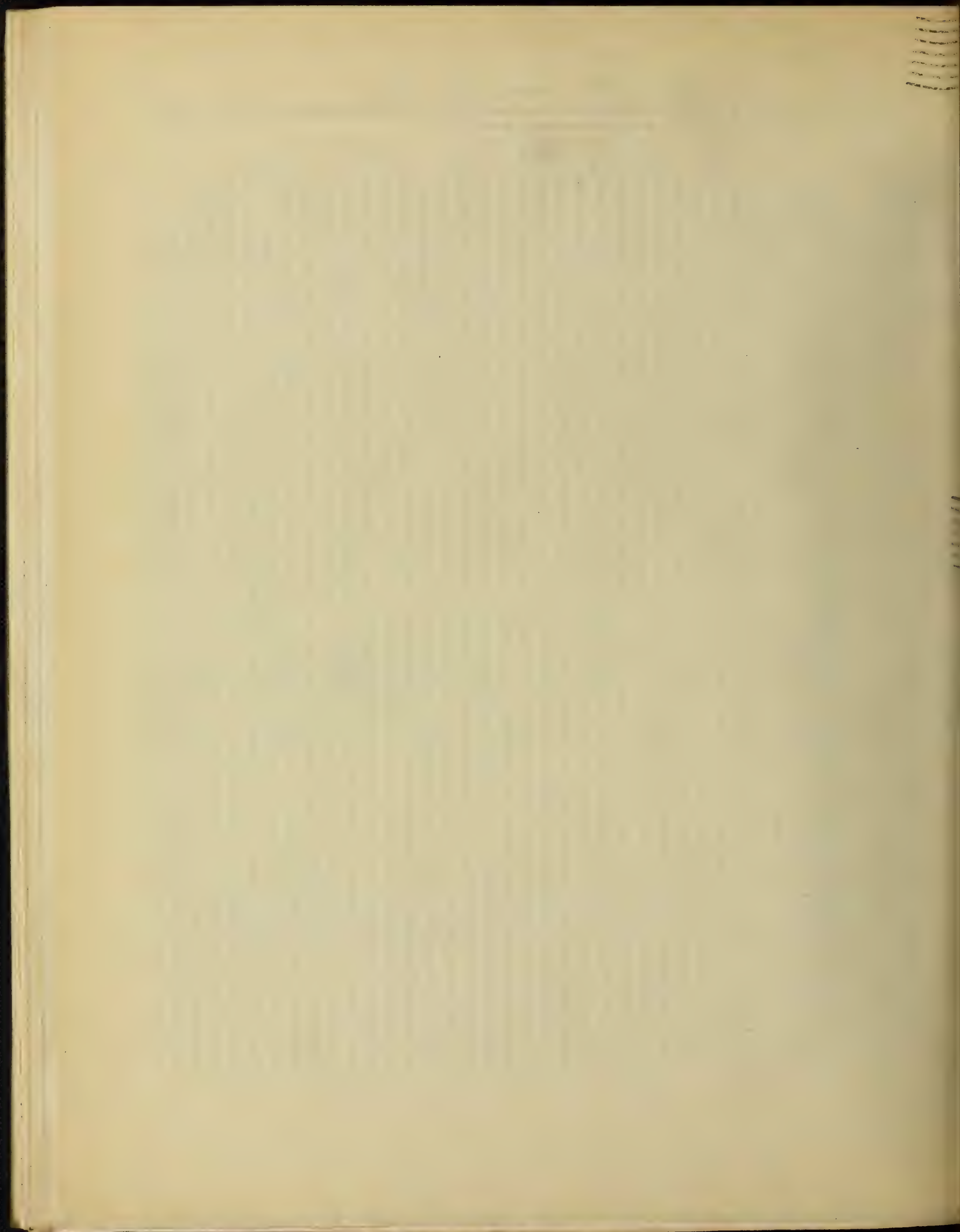
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloesville  
Newville: of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.



Daily Temperatures for March, 1929

| Stations           | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |
|--------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| Allentown.....     | Maximum..... | 47 | 34 | 45 | 44 | 42 | 46 | 35 | 33 | 40 | 41 | 57 | 67 | 70 | 66 | 63 | 63 | 43 | 56 | 64 | 58 | 67 | 75 | 70 | 70 | 55 | 59 | 60 | 59 | 60 | 45 | 64   | 54.8 |
| Altoona.....       | Minimum..... | 31 | 24 | 25 | 27 | 29 | 32 | 18 | 19 | 20 | 12 | 13 | 32 | 32 | 39 | 47 | 27 | 28 | 28 | 32 | 32 | 36 | 52 | 53 | 40 | 42 | 35 | 40 | 35 | 39 | 42 | 44   | 32.4 |
| Beaver Dam.....    | Maximum..... | 39 | 36 | 50 | 45 | 40 | 52 | 52 | 31 | 35 | 34 | 57 | 68 | 60 | 62 | 59 | 54 | 38 | 53 | 64 | 56 | 70 | 65 | 70 | 74 | 68 | 65 | 60 | 53 | 58 | 50 | 59   | 54.1 |
| Bellefonte.....    | Minimum..... | 26 | 28 | 25 | 29 | 32 | 22 | 18 | 14 | 11 | 4  | 22 | 33 | 38 | 43 | 40 | 31 | 20 | 26 | 31 | 39 | 30 | 46 | 51 | 55 | 40 | 48 | 35 | 39 | 25 | 36 | 39   | 31.5 |
| Brookville.....    | Maximum..... | 46 | 44 | 56 | 55 | 48 | 49 | 53 | 35 | 38 | 38 | 57 | 68 | 66 | 68 | 68 | 40 | 40 | 55 | 62 | 61 | 69 | 66 | 69 | 70 | 83 | 81 | 61 | 60 | 61 | 70 | 58.9 |      |
| Butler.....        | Minimum..... | 25 | 32 | 27 | 32 | 32 | 22 | 17 | 11 | 21 | 9  | 21 | 33 | 32 | 40 | 40 | 35 | 22 | 24 | 28 | 40 | 34 | 45 | 50 | 51 | 47 | 41 | 33 | 48 | 26 | 42 | 45   | 32.4 |
| Carlisle.....      | Maximum..... | 45 | 39 | 46 | 41 | 39 | 49 | 45 | 31 | 36 | 36 | 55 | 63 | 62 | 64 | 58 | 56 | 38 | 52 | 63 | 54 | 69 | 71 | 68 | 75 | 61 | 57 | 59 | 50 | 58 | 48 | 58   | 53.1 |
| Catawissa.....     | Minimum..... | 14 | 28 | 22 | 27 | 32 | 21 | 17 | 15 | 8  | 7  | 21 | 26 | 30 | 41 | 33 | 31 | 22 | 25 | 24 | 34 | 26 | 44 | 51 | 44 | 41 | 35 | 26 | 37 | 24 | 36 | 39   | 28.4 |
| Chambersburg.....  | Maximum..... | 45 | 37 | 51 | 46 | 37 | 47 | 43 | 35 | 39 | 36 | 55 | 64 | 63 | 65 | 59 | 50 | 56 | 52 | 61 | 51 | 65 | 67 | 67 | 72 | 83 | 56 | 60 | 49 | 60 | 49 | 64   | 54.1 |
| Clearfield.....    | Minimum..... | 19 | 21 | 18 | 28 | 26 | 20 | 16 | 14 | 0  | -2 | 10 | 10 | 27 | 34 | 34 | 22 | 17 | 16 | 21 | 29 | 25 | 40 | 48 | 39 | 35 | 20 | 22 | 25 | 20 | 20 | 39   | 23.0 |
| Coatesville.....   | Maximum..... | 43 | 46 | 54 | 50 | 49 | 45 | 51 | 45 | 36 | 33 | 55 | 68 | 66 | 66 | 67 | 62 | 39 | 53 | 61 | 59 | 66 | 64 | 69 | 76 | 82 | 80 | 62 | 57 | 60 | 55 | 70   | 57.7 |
| Corry.....         | Minimum..... | 21 | 32 | 26 | 28 | 33 | 21 | 15 | 14 | 20 | 8  | 32 | 31 | 30 | 43 | 35 | 37 | 20 | 24 | 25 | 38 | 35 | 49 | 57 | 58 | 62 | 40 | 28 | 41 | 23 | 41 | 43   | 32.6 |
| Emporium.....      | Maximum..... | 46 | 44 | 48 | 48 | 39 | 52 | 49 | 37 | 39 | 42 | 62 | 70 | 68 | 68 | 68 | 62 | 49 | 64 | 68 | 61 | 72 | 75 | 71 | 80 | 79 | 62 | 64 | 60 | 62 | 58 | 64   | 59.1 |
| Franklin.....      | Minimum..... | 27 | 32 | 25 | 25 | 34 | 29 | 23 | 20 | 26 | 10 | 20 | 24 | 31 | 48 | 43 | 46 | 26 | 32 | 24 | 29 | 35 | 43 | 50 | 54 | 45 | 47 | 49 | 33 | 31 | 37 | 36   | 33.4 |
| Grovesville.....   | Maximum..... | 48 | 48 | 51 | 45 | 41 | 47 | 25 | 37 | 40 | 37 | 61 | 69 | 71 | 66 | 60 | 62 | 45 | 57 | 65 | 60 | 69 | 79 | 74 | 70 | 50 | 62 | 62 | 58 | 61 | 46 | 63   | 55.8 |
| Harrisburg.....    | Minimum..... | 24 | 29 | 21 | 25 | 30 | 26 | 22 | 14 | 27 | 7  | 27 | 22 | 29 | 47 | 41 | 51 | 23 | 25 | 24 | 37 | 30 | 45 | 45 | 50 | 40 | 45 | 28 | 41 | 25 | 39 | 36   | 31.5 |
| Lebanon.....       | Maximum..... | 45 | 42 | 49 | 44 | 40 | 53 | 53 | 36 | 38 | 42 | 60 | 69 | 65 | 70 | 68 | 61 | 47 | 60 | 64 | 61 | 68 | 70 | 77 | 72 | 67 | 62 | 58 | 59 | 54 | 63 | 57.6 |      |
| Lancaster.....     | Minimum..... | 25 | 32 | 26 | 27 | 35 | 28 | 21 | 20 | 25 | 11 | 21 | 26 | 34 | 50 | 47 | 44 | 26 | 27 | 24 | 33 | 21 | 43 | 49 | 49 | 48 | 45 | 27 | 32 | 25 | 36 | 36   | 32.0 |
| Lawrenceville..... | Maximum..... | 48 | 42 | 58 | 58 | 51 | 52 | 57 | 39 | 45 | 40 | 62 | 74 | 75 | 69 | 75 | 72 | 44 | 58 | 65 | 60 | 71 | 63 | 71 | 84 | 87 | 87 | 63 | 59 | 65 | 60 | 75   | 62.2 |
| Reading.....       | Minimum..... | 24 | 30 | 24 | 38 | 31 | 20 | 17 | 12 | 20 | 7  | 22 | 32 | 41 | 57 | 45 | 38 | 25 | 22 | 35 | 37 | 41 | 50 | 57 | 58 | 59 | 42 | 29 | 42 | 21 | 42 | 42   | 33.9 |
| Scranton.....      | Maximum..... | 46 | 43 | 55 | 55 | 44 | 48 | 49 | 35 | 34 | 39 | 58 | 66 | 64 | 60 | 58 | 54 | 41 | 54 | 63 | 60 | 67 | 70 | 69 | 80 | 80 | 55 | 62 | 58 | 61 | 60 | 63   | 56.5 |
| Uniontown.....     | Minimum..... | 21 | 31 | 22 | 28 | 32 | 24 | 15 | 13 | 20 | 5  | 16 | 24 | 28 | 38 | 38 | 36 | 20 | 24 | 23 | 32 | 26 | 42 | 49 | 50 | 40 | 30 | 27 | 36 | 29 | 37 | 40   | 28.9 |
| York.....          | Maximum..... | 47 | 42 | 47 | 46 | 44 | 47 | 46 | 35 | 42 | 40 | 60 | 67 | 66 | 67 | 63 | 63 | 47 | 57 | 57 | 61 | 66 | 76 | 71 | 77 | 55 | 66 | 60 | 60 | 59 | 49 | 65   | 56.4 |
| York.....          | Minimum..... | 24 | 29 | 18 | 25 | 38 | 31 | 23 | 17 | 10 | 12 | 23 | 35 | 57 | 49 | 45 | 26 | 26 | 23 | 37 | 41 | 50 | 57 | 56 | 58 | 43 | 45 | 30 | 43 | 29 | 37 | 37   | 33.3 |
| York.....          | Maximum..... | 44 | 39 | 49 | 48 | 42 | 45 | 45 | 29 | 34 | 33 | 52 | 63 | 63 | 61 | 62 | 56 | 33 | 52 | 60 | 50 | 65 | 63 | 70 | 63 | 75 | 68 | 59 | 53 | 59 | 55 | 59   | 53.2 |
| York.....          | Minimum..... | 12 | 28 | 23 | 32 | 29 | 28 | 11 | 12 | 9  | 2  | 25 | 32 | 32 | 50 | 37 | 27 | 11 | 21 | 35 | 32 | 31 | 44 | 55 | 33 | 43 | 30 | 28 | 35 | 24 | 38 | 35   | 28.5 |
| York.....          | Maximum..... | 43 | 35 | 50 | 47 | 38 | 43 | 47 | 30 | 35 | 36 | 52 | 60 | 64 | 60 | 59 | 53 | 35 | 50 | 60 | 52 | 65 | 64 | 68 | 67 | 72 | 62 | 53 | 50 | 47 | 49 | 58   | 52.1 |
| York.....          | Minimum..... | 16 | 32 | 19 | 31 | 34 | 26 | 16 | 14 | 10 | 2  | 20 | 25 | 28 | 38 | 38 | 33 | 20 | 21 | 24 | 35 | 30 | 44 | 53 | 47 | 35 | 40 | 28 | 34 | 22 | 38 | 42   | 28.9 |
| York.....          | Maximum..... | 45 | 39 | 53 | 49 | 39 | 48 | 41 | 34 | 36 | 34 | 55 | 61 | 64 | 64 | 58 | 49 | 34 | 54 | 61 | 41 | 65 | 53 | 71 | 51 | 76 | 44 | 56 | 52 | 53 | 51 | 49   | 51.0 |
| York.....          | Minimum..... | 27 | 31 | 32 | 38 | 29 | 26 | 15 | 15 | 11 | 11 | 33 | 44 | 48 | 51 | 45 | 24 | 24 | 31 | 41 | 33 | 39 | 35 | 51 | 34 | 43 | 37 | 37 | 34 | 31 | 43 | 36   | 33.2 |
| York.....          | Maximum..... | 45 | 34 | 54 | 45 | 34 | 50 | 28 | 35 | 22 | 38 | 55 | 66 | 63 | 64 | 67 | 47 | 36 | 53 | 61 | 48 | 64 | 64 | 69 | 74 | 80 | 50 | 60 | 46 | 59 | 50 | 65   | 52.5 |
| York.....          | Minimum..... | 21 | 22 | 27 | 30 | 32 | 19 | 17 | 10 | 10 | 7  | 11 | 21 | 30 | 31 | 38 | 38 | 21 | 15 | 31 | 36 | 31 | 41 | 47 | 47 | 44 | 39 | 30 | 31 | 25 | 26 | 40   | 28.0 |
| York.....          | Maximum..... | 40 | 36 | 46 | 43 | 41 | 42 | 42 | 26 | 36 | 34 | 47 | 56 | 63 | 56 | 59 | 55 | 38 | 45 | 60 | 51 | 61 | 70 | 69 | 62 | 44 | 55 | 53 | 51 | 49 | 42 | 60   | 49.4 |
| York.....          | Minimum..... | 19 | 24 | 17 | 27 | 30 | 19 | 12 | 6  | 8  | -2 | 20 | 32 | 40 | 46 | 44 | 38 | 15 | 19 | 32 | 28 | 48 | 52 | 42 | 33 | 29 | 27 | 33 | 25 | 32 | 33 | 28   | 28.3 |
| York.....          | Maximum..... | 48 | 45 | 47 | 44 | 39 | 50 | 52 | 36 | 40 | 42 | 61 | 69 | 65 | 67 | 66 | 62 | 49 | 59 | 64 | 62 | 69 | 72 | 71 | 78 | 74 | 66 | 63 | 59 | 61 | 55 | 63   | 58.0 |
| York.....          | Minimum..... | 28 | 32 | 27 | 28 | 35 | 29 | 22 | 21 | 27 | 11 | 28 | 35 | 42 | 54 | 51 | 48 | 28 | 29 | 28 | 43 | 32 | 52 | 56 | 56 | 41 | 46 | 31 | 39 | 31 | 31 | 42   | 35.6 |
| York.....          | Maximum..... | 44 | 42 | 55 | 50 | 47 | 44 | 51 | 34 | 35 | 37 | 58 | 68 | 63 | 67 | 72 | 63 | 39 | 55 | 68 | 57 | 68 | 66 | 68 | 74 | 86 | 79 | 60 | 55 | 64 | 54 | 74   | 67.8 |
| York.....          | Minimum..... | 28 | 31 | 25 | 37 | 32 | 21 | 16 | 13 | 16 | 8  | 24 | 33 | 41 | 55 | 43 | 33 | 23 | 25 | 35 | 40 | 38 | 51 | 55 | 53 | 56 | 44 | 32 | 42 | 26 | 41 | 43   | 34.2 |
| York.....          | Maximum..... | 44 | 42 | 53 | 52 | 43 | 44 | 48 | 32 | 39 | 46 | 55 | 66 | 64 | 65 | 64 | 62 | 58 | 55 | 61 | 57 | 63 | 65 | 68 | 73 | 80 | 77 | 77 | 66 | 58 | 56 | 60   | 57.8 |
| York.....          | Minimum..... | 19 | 29 | 26 | 39 | 30 | 16 | 13 | 11 | 21 | 7  | 20 | 32 | 33 | 49 | 35 | 31 | 21 | 21 | 34 | 27 | 36 | 47 | 55 | 37 | 47 | 39 | 30 | 29 | 25 | 39 | 30   | 30.6 |
| York.....          | Maximum..... | 46 | 47 | 43 | 38 | 44 | 45 | 47 | 31 | 39 | 39 | 57 | 65 | 64 | 62 | 61 | 62 | 47 | 55 | 63 | 59 | 66 | 74 | 72 | 72 | 60 | 57 | 61 | 60 | 58 | 57 | 61   | 55.2 |
| York.....          | Minimum..... | 26 | 32 | 19 | 22 | 35 | 30 | 26 | 17 | 23 | 10 | 21 | 24 | 33 | 40 | 44 | 41 | 26 | 27 | 24 | 31 | 26 | 45 | 52 | 46 | 41 | 46 | 28 | 38 | 30 | 35 | 38   | 31.5 |
| York.....          | Maximum..... | 42 | 40 | 46 | 39 | 41 | 49 | 48 | 36 | 38 | 40 | 61 | 69 | 62 | 68 | 62 | 59 | 42 | 58 | 63 | 59 | 65 | 72 | 70 | 78 | 54 | 59 | 63 | 56 | 57 | 49 | 62   | 55.4 |
| York.....          | Minimum..... | 33 | 33 | 29 | 31 | 34 | 31 | 23 | 21 | 15 | 18 | 29 | 34 | 41 | 52 | 50 | 37 | 28 | 33 | 33 | 43 | 36 | 54 | 56 | 49 | 44 | 46 | 38 | 43 | 37 | 38 | 42   | 36.3 |
| York.....          | Maximum..... | 40 | 39 | 47 | 49 | 39 | 40 | 43 | 24 | 30 | 34 | 51 | 62 | 68 | 59 | 59 | 60 | 45 | 51 | 61 | 57 | 64 | 70 | 68 | 68 | 51 | 51 | 53 | 55 | 66 | 53 | 65   | 52.3 |
| York.....          | Minimum..... | 28 | 23 | 19 | 23 | 34 | 25 | 19 | 11 | 15 | 5  | 25 | 13 | 28 | 43 | 37 | 43 | 21 | 23 | 22 | 42 | 25 | 38 | 48 | 42 | 32 | 42 | 27 | 29 | 27 | 29 | 37   | 28.2 |
| York.....          | Maximum..... | 45 | 38 | 52 | 43 | 41 | 52 | 55 | 34 | 36 | 39 | 60 | 69 | 64 | 67 | 64 | 58 | 41 | 56 | 66 | 59 | 71 | 69 | 72 | 77 | 75 | 65 | 62 | 57 | 59 | 51 | 61   | 56.7 |
| York.....          | Minimum..... | 21 | 31 | 25 | 26 | 33 | 26 | 19 | 19 | 18 | 6  | 16 | 23 | 29 | 44 | 42 | 41 | 24 | 30 | 22 | 40 | 24 | 41 | 50 | 50 | 42 | 48 | 27 | 35 | 25 | 38 | 40   | 30.8 |
| York.....          | Maximum..... | 52 | 48 | 49 | 45 | 39 | 52 | 46 | 40 | 44 | 43 | 63 | 72 | 68 | 66 | 65 | 65 | 54 |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. APRIL, 1929. No. 4

GENERAL SUMMARY.

A large temperature excess accumulated during the first ten days of the month, and the mean temperature was somewhat above the April normal although there was a slight to moderate deficiency most of the time after the 10th. Rains were frequent, there being an average of fifteen days with .01 inch or more precipitation. The average rainfall of 6.12 inches for the State exceeded all previous April records. Heavy local snows were reported from a number of stations in the mountain districts and in the northern tier of counties, but the snow did not remain long on the ground. Vegetation got an early and vigorous start during the warm period at the beginning of the month, but slowed up somewhat thereafter. The month was marked by an unusual number of severe local storms, some of which were apparently tornadoes. Damaging windstorms occurred in scattered locations in nearly all parts of the State on the 1st, but only one storm seems to have been a tornado. It started near Johnsbury and passed through Portland and then into New Jersey where its path ended near Blairsville. Three persons were killed in the storm path and the property damage exceeded \$50,000. Many persons reported having seen a funnel cloud in this storm. On the 16th, the date of heavy snows in many parts of the State, there was considerable damage by gales in Lehigh County. A rotary storm was reported in the city of York on the 25th. It did considerable damage in a path about 300 feet in width, and was undoubtedly a small tornado. The amount of the damage was not estimated. Farm work was delayed by the muddy condition of the soil, and was generally reported as backward at the close of the month. Crop growth was at about a normal stage. The planting of truck crops was especially slow. Wheat, rye, pastures, and meadows were reported in good to excellent condition and very promising.

TEMPERATURE.

The mean temperature for the month, as shown by reports of 87 stations, was 51.4°, which is 2.6°, warmer than the monthly normal. The highest monthly mean was 55.4°, at Holtwood and the lowest 44.4°, at Gouldsboro. The highest temperature recorded during the month was 94°, at Stroudsburg on the 4th, while the lowest, 19°, occurred at Gouldsboro on the 2d. The greatest daily range of temperature was 52°, at Ridgway on the 24th.

PRECIPITATION.

The average precipitation for the State for the month, as determined from observations taken at 135 stations, was 6.12 inches, which is 2.72 inches greater than the normal for April, and also the greatest ever recorded since State-wide records were begun in 1888. The greatest monthly total was 8.94 inches at Elk Lick and the least was 3.31 inches at Center Hall. The greatest amount recorded in any 24 consecutive hours was 3.80 inches, at New Park on the 15-16th. Snowfall for the State averaged 1.1 inches, which is 1.7 inches less than the normal for the month. The greatest monthly snowfall was 13.0 inches at Montrose, and the greatest 24-hour snowfall was 9.0 inches, at Towanda on the 15-16th.

SUNSHINE, HUMIDITY AND WINDS

| Stations        | Sunshine                |                          |                        | Humidity         |         |       | † Wind                   |                             |           |        |
|-----------------|-------------------------|--------------------------|------------------------|------------------|---------|-------|--------------------------|-----------------------------|-----------|--------|
|                 | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |         |       | Total movement, in miles | Velocity, in miles per hour |           | Date   |
|                 |                         |                          |                        | 8 a m            | 12 noon | 8 p m |                          | Average                     | * Highest |        |
| Erie.....       | 155.9                   | 401.1                    | 39                     | 76               | 63      | 70    | 9,960                    | 13.8                        | 62        | sw. 1  |
| Harrisburg....  | 207.4                   | 398.6                    | 52                     | 70               | 59      | 60    | 5,474                    | 7.6                         | 38        | s. 1   |
| Philadelphia... | 194.6                   | 398.6                    | 49                     | 76               | 65      | 70    | 10,736                   | 14.9                        | 50        | ne. 16 |
| Pittsburgh..... | 191.4                   | 399.9                    | 48                     | 73               | 62      | 59    | 8,565                    | 11.9                        | 53        | w. 1   |
| Reading.....    | 160.3                   | 398.6                    | 40                     | 68               | 54      | 63    | 5,202                    | 7.2                         | 35        | ne. 16 |
| Scranton.....   | 169.6                   | 399.9                    | 42                     | 77               | 67      | 70    | 5,608                    | 7.8                         | 34        | w. 2   |

\* For any five-minute period.

† By 8-cup anemometer.

COMPARATIVE DATA FOR APRIL

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                       |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|-----------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | of inch or more prec. |
| 1888..... | 47.2        | 92      | 12     | 2.52          | 4.23     | 0.99  | 14          | 10            | 6      | 8                     |
| 1889..... | 49.7        | 88      | 14     | 4.50          | 8.15     | 2.09  | 11          | 8             | 11     | 11                    |
| 1890..... | 48.6        | 85      | 12     | 3.46          | 5.50     | 1.75  | 13          | 9             | 8      | 8                     |
| 1891..... | 49.8        | 87      | 11     | 2.08          | 3.54     | 1.12  | 10          | 10            | 10     | 10                    |
| 1892..... | 46.9        | 85      | 14     | 2.04          | 4.43     | 0.61  | 10          | 10            | 10     | 10                    |
| 1893..... | 47.7        | 85      | 16     | 4.74          | 6.91     | 2.95  | 7           | 10            | 13     | 14                    |
| 1894..... | 48.0        | 83      | 5      | 3.62          | 10.00    | 1.69  | 11          | 8             | 11     | 11                    |
| 1895..... | 49.2        | 90      | 5      | 3.76          | 7.09     | 0.79  | 10          | 8             | 12     | 10                    |
| 1896..... | 53.0        | 97      | 4      | 1.75          | 3.39     | 0.20  | 10          | 10            | 10     | 8                     |
| 1897..... | 49.0        | 92      | 12     | 3.30          | 4.63     | 1.20  | 12          | 9             | 9      | 10                    |
| 1898..... | 45.6        | 84      | 4      | 2.93          | 5.34     | 1.36  | 9           | 8             | 13     | 12                    |
| 1899..... | 50.2        | 92      | 2      | 1.76          | 3.25     | 0.70  | 15          | 9             | 6      | 6                     |
| 1900..... | 49.2        | 90      | 13     | 1.57          | 2.80     | 0.60  | 14          | 8             | 8      | 8                     |
| 1901..... | 47.2        | 95      | 10     | 5.41          | 9.18     | 1.46  | 9           | 5             | 16     | 11                    |
| 1902..... | 48.0        | 91      | 20     | 3.56          | 7.14     | 1.34  | 8           | 10            | 12     | 9                     |
| 1903..... | 48.8        | 90      | 12     | 3.53          | 4.93     | 2.16  | 11          | 7             | 12     | 10                    |
| 1904..... | 44.7        | 86      | 9      | 3.45          | 6.42     | 1.34  | 8           | 8             | 14     | 13                    |
| 1905..... | 48.4        | 84      | 16     | 2.84          | 4.74     | 1.39  | 9           | 11            | 10     | 12                    |
| 1906..... | 50.0        | 89      | 12     | 3.13          | 6.96     | 0.75  | 14          | 8             | 8      | 9                     |
| 1907..... | 43.6        | 84      | 8      | 2.64          | 4.42     | 1.02  | 10          | 10            | 13     | 11                    |
| 1908..... | 49.8        | 89      | 0      | 3.51          | 6.31     | 1.85  | 12          | 8             | 10     | 12                    |
| 1909..... | 48.5        | 87      | 8      | 5.39          | 8.42     | 2.67  | 10          | 9             | 11     | 13                    |
| 1910..... | 52.6        | 89      | 18     | 5.07          | 8.50     | 2.21  | 10          | 9             | 11     | 13                    |
| 1911..... | 46.2        | 84      | 6      | 3.79          | 5.85     | 1.66  | 11          | 7             | 12     | 13                    |
| 1912..... | 50.2        | 83      | 18     | 4.39          | 7.31     | 2.41  | 10          | 7             | 13     | 15                    |
| 1913..... | 50.6        | 90      | 17     | 3.82          | 9.28     | 1.46  | 12          | 6             | 12     | 11                    |
| 1914..... | 47.3        | 93      | 5      | 4.66          | 7.50     | 1.90  | 10          | 8             | 12     | 14                    |
| 1915..... | 53.9        | 98      | 15     | 1.92          | 4.41     | 0.46  | 13          | 10            | 7      | 8                     |
| 1916..... | 48.0        | 87      | 16     | 3.65          | 7.40     | 1.65  | 9           | 9             | 12     | 14                    |
| 1917..... | 48.5        | 87      | 14     | 2.08          | 4.89     | 0.41  | 11          | 10            | 9      | 9                     |
| 1918..... | 48.2        | 81      | 12     | 4.53          | 2.41     | 0.30  | 10          | 9             | 11     | 14                    |
| 1919..... | 48.5        | 90      | 6      | 2.70          | 4.76     | 0.90  | 10          | 10            | 10     | 11                    |
| 1920..... | 46.0        | 87      | 8      | 4.39          | 11.34    | 2.44  | 9           | 9             | 12     | 16                    |
| 1921..... | 55.3        | 96      | 10     | 3.11          | 5.06     | 1.12  | 13          | 7             | 10     | 11                    |
| 1922..... | 50.1        | 91      | 11     | 3.17          | 6.10     | 1.28  | 12          | 9             | 9      | 12                    |
| 1923..... | 48.3        | 89      | 5      | 2.94          | 5.89     | 1.00  | 14          | 8             | 8      | 9                     |
| 1924..... | 46.5        | 82      | 6      | 4.15          | 7.52     | 1.77  | 13          | 7             | 10     | 12                    |
| 1925..... | 51.3        | 96      | 9      | 2.32          | 4.89     | 0.93  | 15          | 7             | 8      | 10                    |
| 1926..... | 44.9        | 84      | 9      | 2.03          | 4.35     | 0.85  | 12          | 9             | 9      | 9                     |
| 1927..... | 47.7        | 92      | 17     | 3.52          | 5.59     | 1.65  | 12          | 7             | 11     | 13                    |
| 1928..... | 46.0        | 88      | 11     | 5.50          | 9.82     | 2.11  | 12          | 8             | 10     | 13                    |
| 1929..... | 51.4        | 94      | 19     | 6.12          | 8.94     | 3.31  | 9           | 8             | 13     | 15                    |

RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
|                   |                   |            |               |      |              |      |             |
| Port Jervis.....  | Delaware.....     | 6.0        | 10.6          | 22   | 3.7          | 3    | 18          |
| Phillipsburg..... | Delaware.....     | 7.3        | 12.0          | 22   | 4.0          | 1    | 22          |
| Mauch Chunk.....  | Lehigh.....       | 0.6        | 0.6           | 6    | 2.1          | 1    | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 13.7       | 26.5          | 22   | 7.4          | 5    | 20          |
| Williamsport..... | Susquehanna.....  | 7.6        | 10.7          | 17   | 4.0          | 5    | 20          |
| Harrisburg.....   | Susquehanna.....  | 8.7        | 13.2          | 23   | 5.4          | 4    | 17          |
| Greensboro.....   | Allegheny.....    | 14.9       | 22.8          | 22   | 11.2         | 1    | 22          |
| West Newton.....  | Youghiogheny..... | 4.7        | 10.2          | 17   | 1.3          | 4    | 20          |
| Lock No. 4.....   | Monongahela.....  | 17.5       | 23.4          | 23   | 13.7         | 1    | 31          |
| Pittsburgh.....   | Ohio.....         | 17.1       | 21.9          | 23   | 13.5         | 1    | 25          |
| Beaver Dam.....   | Ohio.....         | 16.9       | 23.6          | 6    | 11.6         | 1    | 30          |



## Climatological Data for April, 1929

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                          |       | Observers |            |        |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|--------------------------|-------|-----------|------------|--------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | (greatest daily range)   | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation in or more | Clear |           | Pt. cloudy | Cloudy | Prevailing direction of wind |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |           |            |        |                              |
| Allentown          | Lehigh       | 254             | 17                      | 51.0                         | .....                     | 90      | 8     | 32     | 1     | 43                       | 7.31  | +3.47                     | 2.08                 | T.                        | 14                       | 12    | 12        | 6          | ne.    | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 42                      | 51.2                         | +3.0                      | 84      | 7     | 27     | 2     | 41                       | 7.67  | +4.80                     | 1.72                 | 2.0                       | 16                       | 14    | 5         | 11         | w.     | Lewis E. Biller.             |
| Arendtsville       | Adams        | 700             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                    | ..... | .....     | .....      | .....  | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 24                      | 49.4                         | .....                     | 84      | 7     | 28     | 2     | 42                       | 5.34  | +1.29                     | 1.36                 | 1.5                       | 12                       | 7     | 7         | 16         | w.     | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 45                      | 53.3                         | +1.4                      | 88      | 7     | 31     | 24    | 40                       | 5.23  | +2.08                     | 1.37                 | 0                         | 14                       | 12    | 2         | 16         | w.     | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 62                      | 54.8                         | +2.6                      | 91      | 7     | 28     | 2     | 45                       | 5.64  | +2.23                     | 1.48                 | 0.8                       | 14                       | 13    | 3         | 14         | .....  | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 32                      | 51.1                         | -0.2                      | 91      | 7     | 22     | 2     | 39                       | 3.31  | +0.17                     | 0.78                 | 3.5                       | 10                       | 12    | 5         | 13         | .....  | H. H. Yetter.                |
| Center Hall        | Center       | 1,272           | 33                      | 50.0                         | +1.1                      | 88      | 7     | 31     | 2     | 40                       | 6.31  | +3.47                     | 1.75                 | 0                         | 16                       | 9     | 7         | 14         | sw.    | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 29                      | 53.2                         | +3.4                      | 88      | 7     | 31     | 2     | 40                       | 6.31  | +3.47                     | 1.75                 | 0                         | 16                       | 9     | 7         | 14         | sw.    | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 19                      | 51.1                         | +2.8                      | 87      | 7     | 25     | 14    | 44                       | 6.55  | +3.14                     | 0.80                 | 1.0                       | 19                       | 5     | 10        | 15         | nw.    | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 41                      | 52.2                         | +1.4                      | 88      | 7     | 30     | 23    | 39                       | 6.72  | +3.09                     | 2.42                 | 0                         | 15                       | 10    | 10        | 10         | s.     | Prof. W. T. Gordon.          |
| Colebrook          | Lebanon      | 560             | 19                      | 51.4                         | +1.5                      | 89      | 7     | 30     | 2     | 40                       | 6.80  | +2.83                     | 1.76                 | T.                        | 17                       | 11    | 4         | 15         | sw.    | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 41                      | 48.8                         | +1.7                      | 84      | 6     | 25     | 3     | 41                       | 7.33  | +4.00                     | 0.86                 | T.                        | 18                       | 8     | 7         | 15         | w.     | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 28                      | 52.6                         | +2.6                      | 87      | 7     | 32     | 2     | 34                       | 5.27  | +1.72                     | 2.11                 | 0                         | 15                       | 11    | 1         | 18         | sw.    | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 14                      | 46.4                         | .....                     | 83      | 7     | 20     | 2     | 34                       | 6.27  | .....                     | 1.39                 | 6.5                       | 17                       | 7     | 3         | 20         | nw.    | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 22                      | 52.6                         | +2.5                      | 90      | 7     | 31     | 24    | 44                       | 6.32  | +2.72                     | 1.65                 | 0                         | 14                       | 14    | 5         | 11         | nw.    | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 55                      | 54.8                         | +4.4                      | 91      | 8     | 33     | 2     | 36                       | 7.00  | +3.40                     | 2.50                 | 0                         | 17                       | 12    | 8         | 10         | s.     | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 25                      | 50.0                         | +2.1                      | 87      | 7     | 25     | 3     | 41                       | 6.34  | +1.68                     | 1.50                 | 1.0                       | 15                       | 12    | 2         | 16         | w.     | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 5                       | 44.4                         | .....                     | 82      | 7     | 19     | 2     | 39                       | 4.09  | -0.61                     | 0.75                 | 0                         | 9                        | 11    | 5         | 14         | w.     | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 36                      | 51.5                         | +1.1                      | 87      | 7     | 29     | 3     | 40                       | 5.01  | +0.76                     | 1.12                 | 0                         | 14                       | 8     | 13        | 9          | w.     | State Sanatorium.            |
| Hanover            | York         | 600             | 25                      | 55.2                         | +2.2                      | 89      | 7     | 33     | 17    | 35                       | 6.95  | +3.66                     | 2.72                 | T.                        | 17                       | 11    | 7         | 12         | s.     | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 59                      | 53.4                         | +2.5                      | 89      | 8     | 33     | 16    | 35                       | 6.03  | +3.34                     | 1.86                 | T.                        | 15                       | 6     | 12        | 12         | ne.    | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 10                      | 48.4                         | .....                     | 87      | 7     | 24     | 2     | 42                       | 5.81  | .....                     | 1.20                 | 3.5                       | 15                       | 10    | 9         | 11         | e.     | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 14                      | 55.4                         | .....                     | 91      | 9     | 37     | 17    | 37                       | 4.37  | +1.66                     | 1.28                 | 0                         | 11                       | 10    | 10        | 10         | .....  | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 41                      | 53.0                         | +3.4                      | 87      | 7     | 28     | 30    | 48                       | 6.20  | +2.83                     | 1.83                 | 0                         | 16                       | 7     | 11        | 12         | w.     | Prof. W. J. Swigart.         |
| Hyndman            | Bedford      | 977             | 18                      | 54.4                         | +3.5                      | 90      | 7     | 28     | 23    | 49                       | 6.30  | +2.73                     | 1.95                 | 0                         | 16                       | 7     | 8         | 15         | .....  | John S. Madore.              |
| Lancaster          | Lancaster    | 255             | 41                      | 53.0                         | +2.2                      | 90      | 7     | 28     | 23    | 44                       | 4.98  | +1.44                     | 2.28                 | 0                         | 11                       | 14    | 6         | 10         | w.     | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 31                      | 48.8                         | +3.0                      | 86      | 7     | 23     | 2     | 40                       | 5.73  | +2.59                     | 1.10                 | 9.0                       | 14                       | 9     | 5         | 16         | .....  | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 88                      | 52.4                         | +1.9                      | 90      | 7     | 32     | 2     | 37                       | 6.12  | +2.75                     | 1.41                 | T.                        | 12                       | 12    | 9         | 9          | sw.    | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 54                      | 52.2                         | +4.0                      | 89      | 7     | 30     | 2     | 42                       | 5.61  | +2.09                     | 1.76                 | 0                         | 15                       | 11    | 5         | 14         | w.     | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 39                      | 54.0                         | +3.7                      | 92      | 7     | 31     | 2     | 44                       | 4.60  | +1.22                     | 1.22                 | T.                        | 14                       | 7     | 11        | 12         | w.     | Joseph Beaver.               |
| Lykens             | Dauphin      | 650             | 14                      | 52.9                         | +2.2                      | 91      | 7     | 28     | 30    | 43                       | 6.86  | +3.59                     | 1.68                 | 2.0                       | 16                       | 11    | 11        | 8          | nw.    | Susquehanna Collieries Co.   |
| Mauch Chunk        | Carbon       | 600             | 38                      | 49.5                         | +0.6                      | 90      | 7     | 28     | 2     | 43                       | 5.88  | +1.96                     | 1.31                 | 0                         | 15                       | 11    | 4         | 15         | s.     | R. K. Wintermute.            |
| Millintown         | Juniata      | 445             | 25                      | 52.2                         | +2.4                      | 88      | 7     | 30     | 2     | 42                       | 5.68  | +1.77                     | 1.25                 | T.                        | 16                       | 8     | 7         | 15         | w.     | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 26                      | 46.8                         | +2.7                      | 85      | 8     | 20     | 2     | 40                       | 7.11  | +3.61                     | 1.50                 | 13.0                      | 14                       | 6     | 9         | 15         | nw.    | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 44.8                         | +1.8                      | 87      | 7     | 20     | 2     | 36                       | 4.29  | +0.11                     | 1.00                 | 3.0                       | 14                       | 6     | 5         | 19         | nw.    | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 17                      | 49.0                         | +0.8                      | 88      | 8     | 24     | 2     | 43                       | 7.38  | +2.85                     | 1.33                 | 4.7                       | 14                       | 15    | 4         | 11         | nw.    | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 10                      | 52.8                         | .....                     | 89      | 7     | 33     | 2     | 36                       | 7.22  | .....                     | 2.19                 | 0                         | 14                       | 9     | 6         | 15         | sw.    | Charles Decker.              |
| Neshaminy Falls    | Bucks        | 60              | 40                      | 51.3                         | +1.2                      | 91      | 7     | 30     | 24    | 44                       | 6.99  | .....                     | 1.87                 | 0                         | 16                       | 11    | 4         | 15         | w.     | North Springfield Water Co.  |
| Palmerston         | Carbon       | 398             | 12                      | 49.9                         | .....                     | 90      | 7     | 30     | 24    | 39                       | 4.49  | .....                     | 0.96                 | 0                         | 14                       | 8     | 6         | 16         | ne.    | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 58                      | 55.2                         | +3.1                      | 90      | 7     | 37     | 17    | 35                       | 6.44  | +3.39                     | 2.41                 | 0                         | 16                       | 7     | 6         | 17         | sw.    | U. S. Weather Bureau.        |
| Philadelphia-Gtn.  | Philadelphia | 113             | 5                       | 54.6                         | .....                     | 90      | 7     | 37     | 2     | 35                       | 6.10  | .....                     | 1.95                 | 0                         | 14                       | 9     | 7         | 14         | .....  | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 13                      | 53.2                         | +1.7                      | 90      | 6     | 36     | 2     | 37                       | 5.62  | +2.38                     | 1.53                 | 0                         | 13                       | 8     | 4         | 18         | .....  | Commandant, Navy Yard.       |
| Phila-Point Breeze | Philadelphia | 90              | 4                       | 54.6                         | .....                     | 90      | 7     | 37     | 2     | 39                       | 5.56  | .....                     | 1.43                 | 0                         | 12                       | 10    | 7         | 13         | sw.    | Atlantic Refining Co.        |
| Phoenixville       | Chester      | 100             | 18                      | 54.9                         | +2.7                      | 92      | 7     | 32     | 23    | 41                       | 5.95  | +2.46                     | 2.40                 | 0                         | 11                       | 8     | 14        | 8          | s.     | North Springfield Water Co.  |
| Quakertown         | Bucks        | 496             | 44                      | 51.4                         | +3.0                      | 88      | 8     | 29     | 24    | 41                       | 6.12  | +2.89                     | 1.34                 | 0                         | 13                       | 9     | 6         | 15         | nw.    | John E. Benner.              |
| Reading            | Berks        | 325             | 59                      | 53.4                         | +3.1                      | 88      | 7     | 34     | 2     | 35                       | 5.32  | +2.05                     | 1.71                 | 0                         | 13                       | 8     | 8         | 14         | nw.    | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 34                      | 50.0                         | +1.9                      | 86      | 7     | 27     | 2     | 33                       | 4.68  | +1.91                     | 0.76                 | 1.5                       | 18                       | 6     | 5         | 19         | sw.    | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 39                      | 52.1                         | +2.2                      | 88      | 6     | 30     | 24    | 42                       | 5.93  | +2.39                     | 1.38                 | 0                         | 16                       | 13    | 2         | 15         | w.     | Dr. George E. Fisher.        |
| Shawmont           | Philadelphia | 51              | 33                      | 54.2                         | .....                     | 88      | 7     | 33     | 23    | 37                       | 7.01  | +2.84                     | 2.18                 | 0                         | 14                       | 9     | 7         | 14         | w.     | W. S. Gules.                 |
| State College      | Center       | 1,217           | 44                      | 51.2                         | +3.5                      | 84      | 7     | 27     | 2     | 37                       | 5.71  | +2.43                     | 1.47                 | 0.5                       | 15                       | 10    | 1         | 19         | w.     | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 18                      | 49.8                         | +0.9                      | 94      | 7     | 28     | 24    | 41                       | 6.19  | +2.41                     | 1.14                 | 0                         | 16                       | 10    | 1         | 19         | w.     | State Normal School.         |
| Towanda            | Bradford     | 754             | 34                      | 48.6                         | +2.0                      | 86      | 7     | 25     | 2     | 41                       | 6.55  | +3.62                     | 1.86                 | 9.0                       | 21                       | 9     | 6         | 15         | e.     | Hiram E. Bull, C. E.         |
| Wellsboro          | Tioga        | 1,419           | 63                      | 46.8                         | +2.2                      | 84      | 7     | 23     | 2     | 44                       | 5.92  | +2.34                     | 1.47                 | 12.5                      | 15                       | 14    | 3         | 13         | n.     | George W. Hill.              |
| West Chester       | Chester      | 455             | 91                      | 53.3                         | +3.6                      | 89      | 7     | 33     | 2     | 34                       | 6.29  | +2.51                     | 2.00                 | 0                         | 13                       | 11    | 10        | 9          | w.     | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 42                      | 51.7                         | +3.1                      | 88      | 7     | 29     | 2     | 42                       | 6.14  | +2.76                     | 1.55                 | T.                        | 15                       | 8     | 5         | 17         | nw.    | Miss Veronica E. April.      |
| York               | York         | 400             | 41                      | 54.2                         | +3.5                      | 90      | 7     | 28     | 23    | 41                       | 6.59  | +3.56                     | 2.85                 | T.                        | 17                       | 12    | 10        | 8          | ne.    | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |           |            |        |                              |
| Beaver Dam         | Beaver       | 700             | 36                      | 53.4                         | +3.3                      | 84      | 6     | 28     | 19    | 46                       | 4.05  | +0.92                     | 0.58                 | 0                         | 17                       | 3     | 12        | 15         | sw.    | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 14                      | 51.1                         | .....                     | 82      | 6     | 26     | 2     | 30                       | 6.77  | .....                     | 1.08                 | 6.5                       | 20                       | 5     | 9         | 16         | nw.    | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 38                      | 47.0                         | +1.2                      | 84      | 6     | 23     | 15    | 44                       | 6.37  | +3.51                     | 1.00                 | T.                        | 12                       | 13    | 8         | 9          | .....  | John Fawcett.                |
| Butler             | Butler       | 1,152           | 4                       | 52.4                         | .....                     | 85      | 7     | 25     | 14    | 41                       | 7.60  | .....                     | 2.30                 | 0                         | 14                       | 13    | 6         | 11         | w.     | William C. Faust.            |
| Claysville         | Washington   | 1,150           | 25                      | 54.0                         | +3.4                      | 85      | 7     | 24     | 19    | 50                       | 5.92  | +2.43                     | 1.13                 | T.                        | 18                       | 13    | 5         | 12         | s.     | J. L. Melvin.                |
| Corry              | Erie         | 1,430           | 17                      | 47.4                         | +2.4                      | 83      | 6     | 24     | 2     | 40                       | 6.14  | +2.74                     | 1.42                 | 0                         | 17                       | 10    | 4         | 16         | nw.    | Ass'd Gas & Electric Co.     |
|                    |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |           |            |        |                              |
|                    |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |           |            |        |                              |



Daily Precipitation for April, 1929

| Stations           | Drainage Basin | Day of month |     |     |      |      |     |     |      |      |      |     |      |     |     |      |      |      |     |     |      |      |     |     |     |      |      |     |     |     |     |      | Total |
|--------------------|----------------|--------------|-----|-----|------|------|-----|-----|------|------|------|-----|------|-----|-----|------|------|------|-----|-----|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|------|-------|
|                    |                | 1            | 2   | 3   | 4    | 5    | 6   | 7   | 8    | 9    | 10   | 11  | 12   | 13  | 14  | 15   | 16   | 17   | 18  | 19  | 20   | 21   | 22  | 23  | 24  | 25   | 26   | 27  | 28  | 29  | 30  | 31   |       |
| Atlantic Drainage. |                |              |     |     |      |      |     |     |      |      |      |     |      |     |     |      |      |      |     |     |      |      |     |     |     |      |      |     |     |     |     |      |       |
| Allentown          | Lehigh         | T.           |     |     | .25  | .64  |     |     |      |      | .14  | .11 | .95  | .03 | T.  | .68  | 1.38 | .03  |     |     | .12  | .58  | .08 |     |     | 2.08 |      |     | .24 |     |     | 7.31 |       |
| Altoona            | Juniata        |              |     | .37 | 1.72 |      |     |     |      | .17  | .48  | .08 | .25  | .11 |     | .65  | 1.02 | .13  |     |     | .25  | .89  |     |     |     | .60  | .22  |     | .48 | .25 |     | 7.67 |       |
| Ansonia            | W. Br. Susq.   | .08          | .13 |     | .51  | 1.15 |     |     |      | .11  | .51  | .22 | .59  |     |     | 1.10 | .59  |      | .01 |     | .25  | .59  | .17 | .01 |     | .60  | .22  |     | .48 | .25 |     | 7.67 |       |
| Arendtsville       | Lower Susq.    |              |     |     |      |      |     |     |      |      |      |     |      |     |     |      |      |      |     |     |      |      |     |     |     | .11  | .43  |     | .90 | .01 |     | 7.22 |       |
| Baker's Summit     | Juniata        |              |     | .09 | .92  |      |     |     |      | .04  | 1.14 | .21 |      |     |     | .80  | 1.17 | .05  |     |     | .18  | .28  |     |     |     | .46  | .11  |     | .04 | .09 |     | 5.58 |       |
| Bellefonte         | W. Br. Susq.   | T.           | T.  |     | .26  | .78  |     |     | .15  | .02  | .61  | .26 | .14  | T.  |     | .81  | 1.18 | T.   | T.  |     | .13  | .36  | .01 |     |     | .16  | .02  |     | .31 | .14 |     | 5.34 |       |
| Bethlehem          | Lehigh         | T.           | T.  |     | .20  | .39  | .03 |     |      | T.   | .27  | T.  | 1.23 |     |     | .137 | .39  | T.   |     |     | .04  | .08  | .45 |     |     | .26  | .22  |     | .12 | .18 |     | 5.23 |       |
| Blosserville       | Lower Susq.    |              | .05 |     | .06  | 1.26 |     |     |      | T.   | .20  | .82 |      | .58 |     | .22  | 1.80 | .20  |     |     |      |      | .42 |     |     | .26  | .22  |     | .12 | .18 |     | 6.90 |       |
| Carlisle           | Lower Susq.    | T.           |     |     | .25  | .94  |     |     |      | T.   | .20  | .58 | .12  | .56 | T.  |      | .22  | .07  | .29 |     | .11  | .06  | .23 |     |     | .45  | .22  |     | .42 | T.  |     | 7.22 |       |
| Catawissa          | N. Br. Susq.   |              |     | .20 | .60  |      |     |     |      |      | .01  | .58 | .05  | .51 |     |      | .60  | 1.04 | .44 | T.  | T.   | .24  | .39 |     |     | .10  | 1.04 |     | .14 | .32 |     | 5.64 |       |
| Center Hall        | Susquehanna    |              |     |     | .42  |      |     |     |      |      | .10  | .34 |      |     |     | .42  | .78  |      |     |     | .03  | .38  |     |     |     | .14  |      |     | .28 | .42 |     | 3.31 |       |
| Chambersburg       | Potomac        |              |     | .21 | 1.45 |      |     |     |      | .11  | .56  | .05 | .25  | .01 |     | .31  | 1.75 | .02  |     |     | .01  | .06  | .18 |     |     | .25  | .84  |     |     |     |     | 6.31 |       |
| Clearfield         | W. Br. Susq.   |              | .05 |     | .25  | .75  |     |     | .05  | .76  | .30  | .10 | .22  | .25 |     | .60  | .80  | .12  | .10 |     | .30  | .50  |     |     |     | .50  | .20  |     | .40 | .30 |     | 6.55 |       |
| Coatesville        | Lower Del.     | .10          |     |     | .12  | .47  |     |     |      | .03  | .23  |     | 1.21 |     | .12 | .23  | .42  | .10  |     |     |      | .91  | .21 |     |     | .13  | .26  |     | .18 |     |     | 6.72 |       |
| Colebrook          | Lower Susq.    |              |     |     | .29  | .66  | .01 |     |      | .03  | .46  | .22 | .52  | T.  |     | .18  | 1.76 | .18  |     |     | .11  | .06  | .23 |     |     | .91  | .98  |     | .17 | .03 |     | 6.80 |       |
| Conshohocken       | Schuylkill     | .02          |     |     |      | .38  |     |     |      | .04  | .11  | .06 | 1.17 | .08 | T.  | .61  | 1.42 | .03  |     |     | T.   | .37  | .20 |     |     | .29  | .11  |     | .68 | T.  |     | 5.57 |       |
| Cresson            | Juniata        |              |     | .86 | 1.42 |      |     |     |      | .50  | .16  | .15 |      | .12 |     | 1.50 | .90  |      |     |     | .80  | .44  |     |     |     | .70  | .10  |     | .68 |     |     | 8.33 |       |
| Doylestown         | Lower Del.     | .21          |     | .14 | .36  |      |     |     |      | .35  |      |     | 1.08 |     | .05 | T.   | 1.52 | .15  | .02 |     | T.   | .53  | .68 |     |     | .09  | .34  |     | .40 | .01 |     | 5.93 |       |
| Driftwood          | W. Br. Susq.   | .20          |     |     | .85  | .08  |     |     |      | .11  | .64  | .04 | .45  |     |     | .08  | 1.02 | .55  |     |     |      | .65  | .15 |     |     | .04  | .90  |     |     | .80 | .04 | 6.60 |       |
| Emporium           | do.            | .20          |     | .41 | .62  | .30  |     |     | .10  | .11  | .40  | .55 | .38  |     |     | .82  | .60  | .08  | T.  |     | .22  | .59  | T.  |     |     | .86  | .32  |     | .60 | .22 |     | 7.33 |       |
| Ephrata            | Lower Susq.    | .01          |     |     | .23  | .45  | T.  |     |      |      | .64  |     | .89  | T.  | T.  | .15  | 2.11 | .11  | T.  |     | .03  | .26  | .19 |     |     | .03  | .05  |     | .08 | .04 |     | 5.27 |       |
| Forest City        | N. Br. Susq.   | .06          |     |     | .51  | .43  |     |     |      | .07  | .55  |     | .73  | .05 |     | .90  | .08  | .04  | T.  |     | .21  | 1.17 | .25 |     |     | .96  |      |     | .40 |     |     | 6.43 |       |
| Freeland           | Lehigh         |              | .25 |     | .38  | 1.01 |     |     |      | .04  | .45  | .24 | .54  | .06 |     | .63  | .96  | .10  | T.  |     | .29  | .44  | .04 |     |     | T.   | .59  | .03 |     | .22 | T.  | 6.27 |       |
| George School      | Lower Del.     | .32          |     | .10 |      |      |     |     |      | .10  |      |     |      |     |     | 1.65 | .20  | .03  |     | T.  | 1.20 | .25  |     |     |     | .28  | .20  |     | .44 | .20 |     | 6.32 |       |
| Gettysburg         | Potomac        |              |     | .17 | 1.06 |      |     |     |      | .05  | .48  | .05 | .65  | .01 | .05 | .28  | 2.50 | .13  |     |     |      | .32  | .18 |     |     | .10  | .54  |     | .24 | .24 |     | 7.00 |       |
| Girardville        | Lower Susq.    | .51          |     | .22 | .62  |      |     |     | T.   | .26  | .20  | .23 | .43  |     |     | .66  | 1.21 | .13  | .07 |     | .16  | .27  | .26 |     |     | .41  | .10  |     | .27 | .05 |     | 6.06 |       |
| Gordon             | Lower Susq.    | .28          |     | .29 | .52  |      |     |     | T.   | .47  |      |     | .70  |     |     | .11  | 1.50 | .63  |     | T.  | .11  | .71  | .13 |     |     | .21  | .33  |     | .16 | .19 |     | 6.34 |       |
| Gouldsboro         | Lehigh         |              | .15 |     | .54  |      |     |     |      |      | .75  | .25 |      |     |     | .60  | .70  | .35  |     |     |      |      |     |     |     | .35  |      |     | .40 |     |     | 4.09 |       |
| Graterford         | Schuylkill     | .22          |     | .06 | .28  |      |     |     |      | .17  |      | .68 |      |     |     | 1.32 | .16  |      |     |     |      | .32  |     |     |     | .08  | .97  |     | .56 | .42 |     | 5.24 |       |
| Hamburg            | Schuylkill     |              |     | .40 | .44  |      |     |     |      | .21  | .02  | .70 |      |     | .03 | 1.12 | .40  |      |     |     | .10  | .07  | .42 |     |     | .71  |      | .35 | .04 |     |     | 5.01 |       |
| Hanover            | Lower Susq.    | T.           |     | .31 | 1.11 |      |     |     | .01  | .39  | .18  | .35 | .01  | .11 | .08 | 2.72 | .85  |      |     | T.  | .27  | .23  |     |     |     | .08  | .02  |     | .17 | .06 |     | 6.95 |       |
| Harrisburg         | do.            | T.           |     | .28 | .80  |      |     |     | .04  | .28  | .58  | .18 | T.   |     | .50 | 1.84 | .02  |      |     | .03 | .17  | .13  |     |     |     | .84  | .01  |     | .33 |     |     | 6.03 |       |
| Hawley             | Upper Del.     |              | T.  |     | .41  | .36  |     |     | .05  | .16  | .36  | .89 | .24  | T.  |     | .43  | 1.20 |      |     |     | .81  | .29  | .01 |     |     | .03  | .25  | T.  |     | .32 | T.  | 5.81 |       |
| Hollisterville     | Upper Del.     |              | .07 |     | .36  | .63  |     |     | .04  | .34  | .25  | .64 | .12  |     | T.  | .41  | 1.17 | T.   | T.  |     | .64  | .27  | T.  |     |     | .01  | .27  |     | .41 |     |     | 5.63 |       |
| Holtwood           | Lower Susq.    |              |     | .34 | .47  |      |     |     |      | .04  | .18  | .32 |      | .09 |     | 1.28 | 1.22 |      |     |     | T.   | .31  | T.  |     |     |      | .05  |     |     | .07 |     | 4.87 |       |
| Huntingdon         | Juniata        |              |     | .25 | 1.58 |      |     |     | .06  | .69  | .18  | .20 | T.   |     |     | .40  | 1.45 | .02  |     |     | .27  | .40  | .04 |     |     | .29  | .05  |     | .25 | .07 |     | 6.20 |       |
| Hyndman            | Potomac        |              |     | .57 | .42  |      |     |     | .06  | 1.26 | .07  | .13 |      |     |     | .67  | 1.95 | .01  |     |     | .02  | .09  | .22 |     |     | .30  | .21  |     |     |     |     | 6.30 |       |
| Lakeville          | Upper Del.     | T.           |     | .40 | .45  |      |     |     | .08  | .30  | .42  | .84 | .22  |     |     | .45  | 1.10 | T.   |     |     | .85  | .35  |     |     |     | .07  | .22  | T.  | .25 | .07 |     | 6.19 |       |
| Lancaster          | Lower Susq.    | .05          |     | .20 | .55  |      |     |     | .67  |      | .68  |     |      |     |     | .02  | 2.28 |      |     |     | .04  | .40  |     |     |     | .03  |      |     | .06 |     |     | 4.98 |       |
| Lansford           | Lehigh         |              | .10 |     | .25  | .76  |     |     | .18  | .08  | .69  | T.  |      |     |     | .48  | 1.07 | .04  |     |     | *    | .67  | .06 |     |     | .65  |      |     | .24 |     |     | 5.27 |       |
| Lawrenceville      | N. Br. Susq.   | .10          |     | .35 | .10  | .94  |     |     | .69  |      | .69  |     |      |     |     | .22  | 1.10 | T.   | T.  |     | .10  | 1.10 |     |     |     | .30  | .05  |     | .10 | T.  | T.  | 5.73 |       |
| Lebanon            | Lower Susq.    |              |     | .57 | .30  |      |     | T.  | .27  | .08  | .60  |     |      | T.  | T.  | .74  | 1.18 | T.   | T.  |     | .12  | .48  | .06 |     | T.  | 1.41 |      |     | .31 |     |     | 6.12 |       |
| Lewisburg          | W. Br. Susq.   |              |     | .17 | .45  |      |     |     |      | .64  | .10  | .65 |      |     |     | .41  | 1.76 | .15  |     |     | .04  | .30  | .08 |     |     | .53  | .01  |     | .18 | .14 |     | 5.61 |       |
| Lloyd              | do.            |              |     | .21 | .38  | 1.76 |     |     | .05  | .80  | .08  | .49 |      |     |     | .61  | 1.11 | .05  |     |     | .32  | .38  |     |     |     | .68  |      |     | .61 |     | T.  | 7.53 |       |
| Lock Haven         | do.            | .03          | T.  |     | .22  | .52  |     |     | .08  | .02  |      | .62 |      |     |     | .44  | 1.22 |      |     |     | .03  | .36  |     |     |     | .36  | .22  |     | .34 | .14 |     | 4.60 |       |
| Lykens             | Susquehanna    | T.           |     | .39 | .56  |      |     |     | .04  | .58  | T.   | .74 | .04  |     |     | .16  | 1.68 | .98  |     |     | .10  | .23  | .19 |     |     | .20  | .55  |     | .20 | .22 |     | 6.86 |       |
| Mauch Chunk        | Lehigh         | .54          |     | .23 | .36  | .56  |     |     | .35  | .03  | .83  |     |      |     |     | .05  | 1.26 | .22  |     |     | .15  | .37  | .20 |     |     | .45  |      |     | .28 |     |     | 5.88 |       |
| McIntown           | Juniata        |              |     | .27 | .75  |      |     |     | .01  | .52  | .08  | .46 |      |     |     | .21  | 1.25 | .15  |     |     | .14  | .70  | .09 |     |     | .66  | .04  |     | .10 | .25 |     | 5.68 |       |
| Montrose           | N. Br. Susq.   |              |     | .50 |      |      |     |     | 1.50 | .70  | .65  | .10 | .10  |     |     | .27  | .70  | .60  | T.  | .30 | .80  |      | .90 |     |     | .70  | .04  |     | .15 |     |     | 7.11 |       |
| Morris Run         | N. Br. Susq.   |              |     | .23 | .38  | .76  |     | .01 | .24  | .76  | .04  | .56 |      |     |     | .27  | 1.63 | .45  |     | .04 | .40  | .10  |     |     | .87 |      |      | .27 | .25 |     |     | 7.31 |       |
| Mount Pocono       | Upper Del.     | .16          |     | .16 | .90  |      |     |     | .25  | T.   | .60  | T.  | T.   |     |     |      |      |      |     |     |      |      |     |     |     |      |      |     |     |     |     |      |       |



## Daily Precipitation for April, 1929—Continued from page 18

| Stations        | Drainage Basin | Day of month |     |     |      |      |     |     |      |     |      |     |     |     |     |     |      |      |     |    |      |      |     |     |    |      |     |     |      |     |     |    | Total |      |
|-----------------|----------------|--------------|-----|-----|------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|------|-----|----|------|------|-----|-----|----|------|-----|-----|------|-----|-----|----|-------|------|
|                 |                | 1            | 2   | 3   | 4    | 5    | 6   | 7   | 8    | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16   | 17   | 18  | 19 | 20   | 21   | 22  | 23  | 24 | 25   | 26  | 27  | 28   | 29  | 30  | 31 |       |      |
| Ohio Drainage.  |                |              |     |     |      |      |     |     |      |     |      |     |     |     |     |     |      |      |     |    |      |      |     |     |    |      |     |     |      |     |     |    |       |      |
| Beaver Dam\|\|\| | Ohio           | .16          | .02 |     | .55  |      |     |     |      | .12 | .45  |     | .09 | .15 | .11 | .86 | .30  | .25  |     |    | .06  | .24  | .35 |     |    |      | .02 | .58 |      |     | .24 |    |       | 4.05 |
| Beaver Falls\|\|\| | Beaver         | .01          | .01 | T.  | .33  |      |     |     |      | .18 | .47  | T.  | .08 | .11 | .07 | .33 | .31  | .27  |     |    | .06  | .21  | .43 |     |    |      | .06 | .49 | T.   |     | .25 |    |       | 3.67 |
| Bradford        | Allegheny      | .35          | .02 |     | .34  | .50  | .05 |     | .05  |     | 1.08 | .10 | .24 | .02 |     | .34 | .48  | .12  | .10 |    | .68  | .86  |     |     |    |      | .48 | .22 |      | .64 | .10 |    |       | 6.77 |
| Brookville      | do.            | T.           |     |     | .15  | 1.00 |     |     | .12  |     | .75  | .50 | .05 |     |     | .75 | .75  | T.   |     |    | .50  | *    |     |     |    | 1.05 |     |     | .75  |     |     |    | 6.87  |      |
| Butler          | Ohio           |              |     |     | .40  | 2.30 |     |     | .28  | .51 |      | .20 | .30 | .09 |     | .65 | .59  |      |     |    | .22  | .54  |     |     |    | .75  | .32 |     | .45  |     |     |    | 7.60  |      |
| Claysville      | do.            |              |     |     | 1.13 | .02  |     |     | .12  | .54 | .49  | .05 | .14 | .10 |     | .52 | .68  | .11  |     |    | .31  | .44  | .02 |     |    | .18  | .68 |     | .32  | .07 |     |    | 5.92  |      |
| Cloef           | Allegheny      |              |     |     | .32  | 1.02 |     |     | 1.0  | .09 | .70  | .29 | .05 |     |     | .68 | .75  |      |     |    | .48  | .30  |     |     | T. | 1.37 | .08 |     | .57  | .10 |     |    | 6.90  |      |
| Clymer\|\|\| | Conemaugh      |              |     |     | .67  | 1.34 |     |     | T.   | .31 | .59  | .12 | .08 | .18 |     | .59 | .74  | .22  |     |    | .33  | .62  |     |     |    | .32  | .58 |     | .32  | .18 |     |    | 7.19  |      |
| Confluence\|\|\| | Youghiogheny   |              |     |     |      | 1.82 |     |     | .19  | .81 | .20  | .10 |     |     |     | .40 | .70  | .40  |     |    |      | .20  | .65 |     |    | .05  | .95 | .05 |      | .63 |     |    | 7.15  |      |
| Corapolis\|\|\| | Ohio           |              |     |     | .71  |      |     |     | .08  |     | .02  | .20 | .19 | .13 |     | .37 | .40  | .47  |     |    | .01  | .40  | .34 |     |    | .04  | .65 | .02 |      | .22 |     |    | 4.25  |      |
| Corry           | Allegheny      | .40          |     |     | .81  | .07  |     |     | .18  | .03 | .33  | .13 | .14 | .03 |     | .29 | .09  |      | .06 |    | 1.42 | .54  |     |     |    | .71  |     |     | .79  | .12 |     |    | 6.14  |      |
| Coudersport     | do.            | .46          | .02 |     | .27  | .41  | .09 |     |      |     | .56  | .24 |     |     |     | .43 | .68  | .15  | T.  |    | .62  | .16  |     |     |    | .60  |     |     | .63  | T.  |     |    | 5.32  |      |
| Creekside       | Allegheny      |              |     |     | *    | 1.85 |     |     |      | *   | .93  | .26 |     | .12 |     | *   | 1.39 |      |     |    | *    | 1.08 |     |     |    | *    | .77 |     |      | .66 |     |    | 7.06  |      |
| Derry           | Conemaugh      |              |     |     | .76  | 1.04 |     |     | .72  | .72 | .08  |     | .37 |     |     | .68 | .80  | .36  |     |    | .25  | 1.17 |     |     |    | .13  | .41 |     | .49  | .06 |     |    | 8.04  |      |
| Donora\|\|\| | Monongahela    | T.           |     |     | .20  | .72  |     |     | .32  | .75 | .18  | .12 | .25 |     |     | .57 | .64  | .66  |     |    | .26  |      | .72 |     |    | .01  | .40 |     | .44  |     |     |    | 6.24  |      |
| Ebensburg       | Conemaugh      |              |     |     | .11  | 1.35 |     |     | .10  | .50 |      | .06 | .10 |     |     | .60 | .30  | .40  |     |    | .23  | .93  |     |     |    | .42  | .34 |     | .34  | .20 |     |    | 5.98  |      |
| Elk Lick        | Youghiogheny   |              |     |     | 1.00 | 1.46 |     |     | 1.00 | .70 | .10  |     |     |     |     | .90 | 1.00 | .60  |     |    |      | .70  | .35 |     |    | .17  | .68 |     | .28  |     |     |    | 8.94  |      |
| Falls Creek     | Allegheny      | .16          |     |     | .25  | .90  |     |     | .20  |     | .76  |     | .35 |     |     | .49 | .75  |      |     |    | .22  | .57  |     |     |    | .35  | .48 |     | .18  | .36 |     |    | 6.02  |      |
| Franklin\|\|\| | Allegheny      | .95          | .09 |     | .02  | 1.38 | .04 |     | .08  | .61 |      | .21 | .04 |     |     | .15 | .48  | .21  |     |    | .02  | .85  | .22 |     |    | .13  | .76 |     |      | .65 |     |    | 6.89  |      |
| Freeport\|\|\| | do.            | .08          |     |     | .13  | .36  | .02 |     | .14  | .44 | .05  | .33 | .07 | .08 |     | .29 | .48  | .43  |     |    |      | .40  | .44 |     |    | .02  | .45 |     | .01  | .32 |     |    | 5.62  |      |
| Greensboro      | Monongahela    | .06          | .06 |     |      | 1.08 | T.  |     | .28  | .71 | .08  | .15 |     |     |     | .32 | .58  | 1.07 |     |    |      | .15  | .77 |     |    | .02  | .45 |     | .01  | .32 |     |    | 6.11  |      |
| Greensburg      | Youghiogheny   | .02          | T.  |     | .69  | .36  |     |     | .01  | .67 | .64  | .05 | .11 | .39 |     | .70 | .71  | .25  |     |    | .24  | .90  | T.  |     |    | .27  | .35 |     | .40  | .12 |     |    | 6.88  |      |
| Greenville      | Beaver         | 1.14         | .02 |     | .33  | 1.45 |     | .12 | .12  |     | .40  | .15 | T.  |     |     | .45 | .05  |      |     |    | .53  | .40  |     |     | T. | .42  | .37 |     | .60  | .07 |     |    | 6.92  |      |
| Grove City      | Beaver         | .24          |     |     | .38  | 1.98 |     |     | .17  | .13 | .60  | .06 | .11 |     |     | .55 | .21  | .02  |     |    | .20  | .84  | .01 |     |    | .37  | .33 |     | .20  | .15 |     |    | 6.55  |      |
| Herr's Isl. Dam\|\|\| | Ohio           |              | T.  |     |      | .58  |     |     | .12  | .50 | .05  | .35 | .15 | .12 |     | .47 | .50  | .50  |     |    | .04  | .32  | .35 |     |    | .02  | .36 |     | T.   | .19 |     |    | 4.62  |      |
| Ingram          | Ohio           | .01          |     |     | .62  | .03  |     |     | .10  | .22 | .43  | .17 | .11 | .86 |     | .64 | .80  | .12  |     |    | .14  | .65  |     |     |    | .32  | .16 |     | .21  |     |     |    | 5.09  |      |
| Irwin           | Youghiogheny   | .02          |     |     | .73  | .39  |     |     | .10  | .35 | .32  | .24 | .18 | .36 |     | .61 | .26  | .09  |     |    | .62  |      |     |     |    | .15  | .27 |     | .28  | .04 |     |    | 5.01  |      |
| Johnstown       | Conemaugh      | .04          |     |     | .65  | .98  |     |     | .08  | .30 | .40  |     | .10 | .29 |     | .75 | 1.13 |      |     |    | .82  | .42  |     |     | *  | .67  | .38 |     | .55  | .02 |     |    | 7.58  |      |
| Kregar\|\|\| | Youghiogheny   | T.           |     |     | 1.68 | .10  |     |     | .30  | .77 | .12  | .08 | .06 | .24 | .31 | .50 | 1.22 |      |     |    | .72  | .50  |     |     |    | .84  | .05 |     | .37  |     |     |    | 7.86  |      |
| Linesville\|\|\| | Beaver         |              |     |     |      |      |     |     |      |     |      |     |     |     |     |     |      |      |     |    |      |      |     |     |    |      |     |     |      |     |     |    |       |      |
| Lock No. 4\|\|\| | Monongahela    | .01          |     |     |      | 1.00 |     |     | .41  | .65 | .13  | .22 | .08 | .13 |     | .32 | .71  | .92  |     |    | .08  | .27  | .67 |     |    | .01  | .47 | .01 |      | .67 |     |    | 6.76  |      |
| Lycippus        | Conemaugh      |              |     |     | .82  | .60  |     |     | 1.50 | .32 | .02  |     | .42 |     |     | .50 | .79  | .37  |     |    | .42  | 1.05 |     |     |    | .45  | .21 |     | .64  |     |     |    | 8.11  |      |
| Meadville       | Allegheny      | .65          |     |     | .36  | .64  |     |     | .12  | .05 | .41  | .05 | .08 |     |     | .37 | .05  |      |     |    | .50  | .82  |     |     |    | .44  | .38 |     | .51  | .40 |     |    | 5.83  |      |
| Mount Lebanon   | Ohio           | .05          |     |     | .81  | .03  |     |     | .20  | .30 | .24  | .15 | .14 | .34 |     | .57 | .83  | .07  |     |    | .20  | .60  |     |     |    | .34  | .11 |     | .25  |     |     |    | 5.23  |      |
| New Castle\|\|\| | Beaver         | .72          | .02 | .01 | .03  | 2.82 | .02 |     | .30  | .42 |      | .22 | .02 | .02 |     | .31 | .21  | .11  |     |    | .08  | .56  | .30 |     |    | .02  | .16 | .43 |      | .01 | .39 |    |       | 7.18 |
| Newell          | Monongahela    |              |     |     | .81  |      |     |     |      | .75 | .34  | .10 |     | .08 |     | .76 | .48  | .29  |     |    | .45  | .29  |     |     |    | .08  | .15 | .25 |      | .35 | .20 |    |       | 5.38 |
| Parkers Landing\|\|\| | Allegheny      | .30          | T.  |     | T.   | 2.75 | .10 |     |      | .47 | .53  |     | .27 | T.  |     | .30 | .60  | .35  |     |    | .05  | .55  | .22 |     |    | .05  | .73 | T.  |      | .68 |     |    | 7.90  |      |
| Pennline\|\|\| | Beaver         | .61          | .04 |     |      | 1.80 |     |     |      | .17 | .61  |     | .43 | .12 |     | .18 | .16  | T.   |     |    | .15  | 1.29 |     |     |    | .76  |     |     | .55  |     |     |    | 6.87  |      |
| Pittsburgh***   | Ohio           |              |     |     | .40  | .03  |     |     | .13  | .24 | .28  | .26 | .08 | .28 |     | .56 | .85  | .01  |     |    | .15  | .56  |     |     |    | .24  | .12 |     | .15  |     |     |    | 4.29  |      |
| Ridgway         | Allegheny      | .03          |     |     | .29  | .80  | T.  |     | .16  | T.  | .49  | .08 | .07 |     |     | .45 | .30  |      |     |    | .18  | .56  | .63 |     |    | .27  |     | *   | .29  |     |     |    | 4.54  |      |
| Saltsburg\|\|\| | Conemaugh      | .04          |     |     | 1.32 | .01  |     |     | .34  | .63 | .05  | .36 | .27 | .04 |     | .35 | .50  | .76  |     |    |      | .78  | .35 |     |    | .08  | .55 | .01 | .01  | .49 |     |    | 6.94  |      |
| Sharon\|\|\| | Beaver         | .84          |     |     | 2.83 |      |     |     | .04  | .39 |      | .14 |     |     |     | .15 | T.   |      |     |    | .05  | .41  | .60 |     |    | .10  | .39 |     | .30  |     |     |    | 6.24  |      |
| Somerset        | Youghiogheny   |              |     |     | .82  | .92  |     |     | .70  | .65 | .05  |     | .10 |     |     | .42 | 1.08 | .28  |     |    |      | .35  | .58 | .25 |    |      | .40 | .48 |      | .18 | .22 |    |       | 7.48 |
| Springdale\|\|\| | Allegheny      | .04          | T.  |     |      | 1.10 | .01 |     | .12  | .46 | .03  | .32 | .15 | .15 |     | .29 | .47  | .49  |     |    | .04  | .41  | .27 |     |    | .03  | .85 | .02 |      | .25 |     |    | 5.50  |      |
| Uniontown       | Monongahela    |              |     |     | .15  | .09  |     |     | 1.02 | .21 | T.   | .12 |     |     |     | .64 | .83  | .54  | .08 |    |      | .32  | .55 | .23 |    |      | .26 | .41 |      | .29 | .16 |    |       | 5.85 |
| Unity Reservoir\|\|\| | Youghiogheny   |              |     |     | .66  | .62  |     |     |      | .64 | .51  | T.  | .09 | .36 |     | .72 | .80  | .34  |     |    | .26  | 1.09 |     |     |    | .12  | .42 |     | .50  | .12 |     |    | 7.25  |      |
| Vandergrift     | Conemaugh      |              |     |     | .03  |      |     |     | .09  | .13 | .41  | .24 | .13 | .17 |     | .58 | .81  | .01  |     |    | .28  | .45  |     |     |    | .71  |     |     | .44  | T.  |     |    | 4.48  |      |
| Warren          | Allegheny      | .83          |     |     | .10  | 1.28 |     |     | .05  |     | .95  | .20 | .27 | .03 |     | .24 | .48  |      |     |    | 1.00 | .48  |     |     |    | .61  | .13 |     | .80  | .10 |     |    | 7.58  |      |
| Washington      | Ohio           |              |     |     |      |      |     |     |      |     |      |     |     |     |     |     |      |      |     |    |      |      |     |     |    |      |     |     |      |     |     |    |       |      |
| Westford\|\|\| | Beaver         | .34          | T.  |     | 1.00 |      |     |     |      | .46 | .15  |     |     |     |     | .30 |      |      |     |    | 1.00 |      |     |     |    | .40  | .40 |     | 1.00 |     |     |    | 5.04  |      |
| West Newton\|\|\| | Youghiogheny   | T.           |     |     |      | .98  |     |     | .28  | .65 | .16  | .33 | .12 | .35 |     | .37 | .62  | .36  |     |    |      | .39  | .59 |     |    | .51  |     |     | .41  |     |     |    | 6.12  |      |
| Zelienople\|\|\| | Ohio           |              |     |     | 1.20 |      |     |     | .29  |     |      |     |     |     |     | .74 | .20  |      |     |    | .06  | .47  | .15 |     |    | .08  | .32 |     |      |     | .11 |    |       | 3.62 |
| Lake Drainage.  |                |              |     |     |      |      |     |     |      |     |      |     |     |     |     |     |      |      |     |    |      |      |     |     |    |      |     |     |      |     |     |    |       |      |
| Erie***         | Lake Erie      | .09          |     | T.  | .33  | .60  |     |     | .09  | .21 | .71  | .21 | .11 | .01 |     | .22 | T.   |      |     | T. | .01  | 1.53 | .19 |     |    | .01  | .89 | .23 |      | .11 | .02 |    |       | 5.57 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

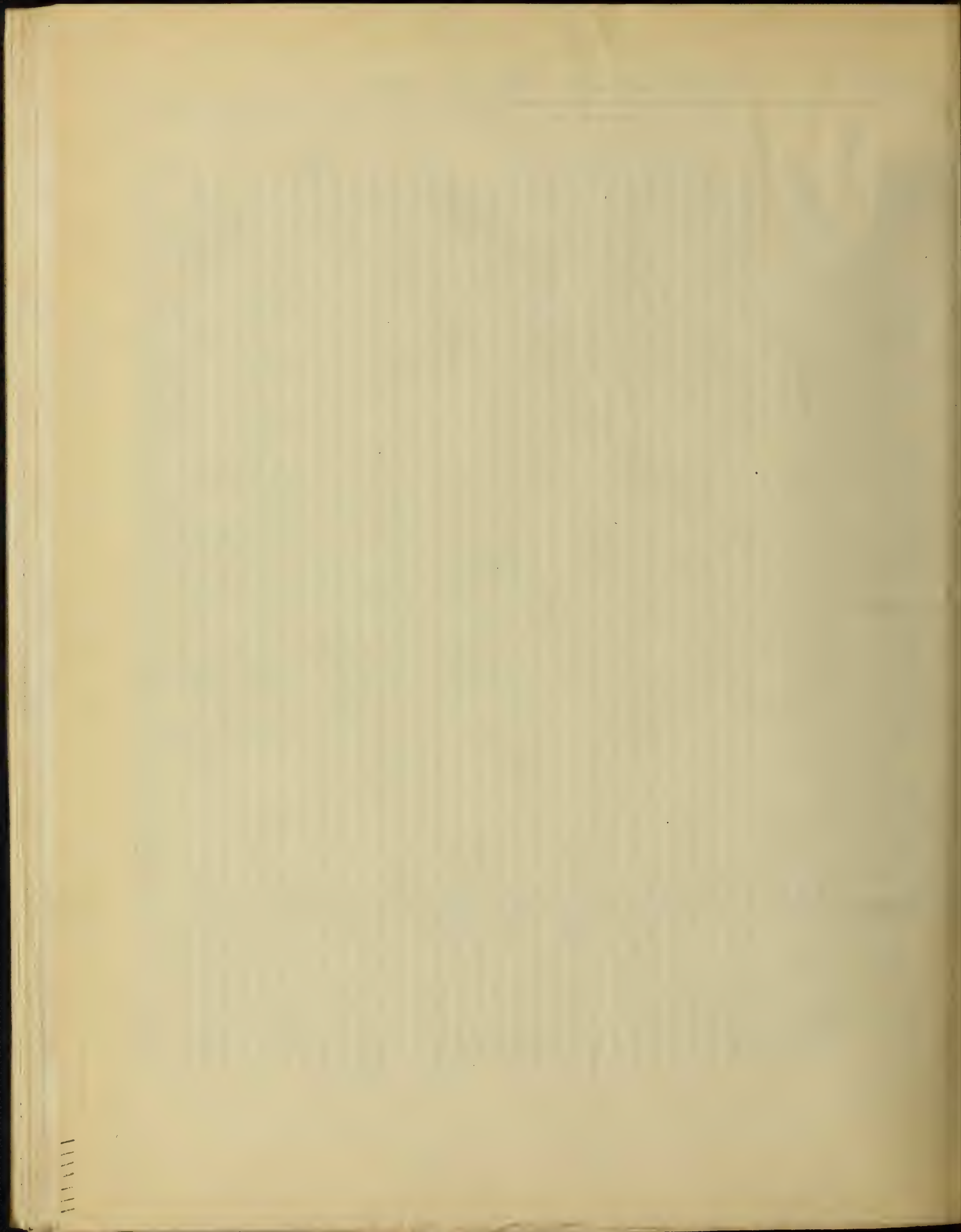
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Blosserville Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.



## Daily Temperatures for April, 1929

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean              |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|
| Allentown.....    | Maximum | 75 | 54 | 64 | 72 | 62 | 84 | 88 | 90 | 70 | 50 | 54 | 44 | 56 | 54 | 42 | 42 | 44 | 48 | 62 | 56 | 63 | 52 | 63 | 71 | 62 | 62 | 69 | 63 | 58 | 67                | 61.4              |
|                   | Minimum | 32 | 34 | 35 | 43 | 47 | 52 | 56 | 56 | 48 | 34 | 38 | 37 | 38 | 37 | 34 | 34 | 36 | 39 | 43 | 43 | 37 | 36 | 35 | 43 | 45 | 39 | 47 | 47 | 36 | 40                | 40.7              |
| Altoona.....      | Maximum | 70 | 51 | 71 | 67 | 75 | 82 | 84 | 83 | 68 | 54 | 40 | 53 | 57 | 58 | 54 | 36 | 44 | 45 | 58 | 60 | 62 | 56 | 61 | 70 | 66 | 61 | 72 | 63 | 56 | 72                | 61.6              |
|                   | Minimum | 38 | 27 | 34 | 47 | 55 | 67 | 63 | 56 | 54 | 39 | 36 | 35 | 38 | 30 | 36 | 34 | 32 | 32 | 31 | 39 | 48 | 40 | 31 | 34 | 47 | 48 | 35 | 48 | 38 | 31                | 40.8              |
| Beaver Dam.....   | Maximum | 69 | 53 | 72 | 70 | 81 | 84 | 84 | 84 | 68 | 55 | 55 | 52 | 59 | 60 | 58 | 44 | 51 | 49 | 74 | 73 | 73 | 57 | 61 | 69 | 71 | 68 | 70 | 69 | 63 | 73                | 65.6              |
|                   | Minimum | 37 | 31 | 33 | 43 | 51 | 56 | 57 | 51 | 47 | 42 | 43 | 44 | 37 | 30 | 42 | 38 | 39 | 35 | 28 | 42 | 48 | 38 | 30 | 34 | 51 | 46 | 38 | 50 | 40 | 34                | 41.2              |
| Bellefonte.....   | Maximum | 71 | 52 | 67 | 73 | 83 | 84 | 82 | 65 | 50 | 43 | 56 | 56 | 59 | 45 | 36 | 42 | 45 | 60 | 56 | 63 | 55 | 62 | 68 | 58 | 63 | 70 | 59 | 51 | 70 | 60.4              |                   |
|                   | Minimum | 34 | 28 | 33 | 38 | 50 | 49 | 54 | 50 | 50 | 39 | 36 | 38 | 40 | 29 | 33 | 32 | 35 | 32 | 37 | 41 | 43 | 39 | 29 | 30 | 49 | 44 | 31 | 45 | 36 | 28                | 38.4              |
| Brookville.....   | Maximum | 68 | 51 | 70 | 60 | 78 | 84 | 84 | 81 | 66 | 47 | 42 | 52 | 53 | 53 | 59 | 38 | 48 | 46 | 60 | 64 | 58 | 62 | 69 | 64 | 61 | 70 | 61 | 51 | 68 | 61.2 <sup>b</sup> |                   |
|                   | Minimum | 28 | 28 | 26 | 32 | 47 | 46 | 47 | 42 | 45 | 37 | 37 | 35 | 27 | 23 | 33 | 28 | 27 | 25 | 40 | 40 | 40 | 27 | 23 | 26 | 46 | 31 | 27 | 38 | 26 | 24                | 32.9 <sup>b</sup> |
| Butler.....       | Maximum | 60 | 51 | 73 | 72 | 78 | 83 | 85 | 77 | 74 | 52 | 48 | 51 | 53 | 60 | 55 | 49 | 47 | 45 | 60 | 66 | 71 | 69 | 65 | 71 | 68 | 67 | 71 | 66 | 60 | 70                | 63.9              |
|                   | Minimum | 35 | 28 | 32 | 42 | 57 | 62 | 60 | 60 | 52 | 40 | 42 | 42 | 37 | 25 | 35 | 36 | 36 | 34 | 29 | 44 | 40 | 57 | 27 | 32 | 52 | 45 | 32 | 45 | 39 | 30                | 40.9              |
| Carlisle.....     | Maximum | 72 | 60 | 72 | 72 | 77 | 87 | 91 | 90 | 85 | 58 | 48 | 60 | 58 | 61 | 58 | 41 | 49 | 52 | 59 | 66 | 71 | 59 | 67 | 72 | 72 | 67 | 73 | 67 | 67 | 72                | 66.8              |
|                   | Minimum | 58 | 32 | 35 | 49 | 45 | 52 | 60 | 57 | 58 | 43 | 37 | 38 | 39 | 35 | 38 | 37 | 35 | 37 | 39 | 44 | 48 | 42 | 34 | 31 | 48 | 52 | 37 | 50 | 42 | 35                | 42.9              |
| Catawissa.....    | Maximum | 71 | 64 | 68 | 69 | 64 | 87 | 91 | 90 | 69 | 48 | 53 | 55 | 69 | 64 | 42 | 40 | 43 | 45 | 64 | 54 | 57 | 56 | 66 | 74 | 64 | 70 | 74 | 60 | 58 | 70                | 63.8              |
|                   | Minimum | 44 | 28 | 35 | 36 | 46 | 46 | 56 | 50 | 51 | 41 | 36 | 37 | 40 | 32 | 35 | 31 | 30 | 35 | 36 | 39 | 44 | 36 | 29 | 29 | 45 | 48 | 31 | 51 | 41 | 29                | 38.9              |
| Chambersburg..... | Maximum | 78 | 61 | 71 | 68 | 78 | 86 | 88 | 88 | 80 | 56 | 43 | 61 | 57 | 62 | 55 | 43 | 51 | 53 | 63 | 59 | 73 | 63 | 65 | 70 | 65 | 64 | 69 | 66 | 58 | 68                | 65.4              |
|                   | Minimum | 38 | 31 | 35 | 38 | 48 | 51 | 55 | 49 | 56 | 43 | 37 | 39 | 38 | 37 | 38 | 37 | 37 | 36 | 38 | 35 | 47 | 43 | 32 | 32 | 49 | 53 | 37 | 45 | 47 | 31                | 41.1              |
| Claysville.....   | Maximum | 76 | 56 | 74 | 70 | 81 | 84 | 85 | 81 | 70 | 52 | 57 | 56 | 61 | 60 | 56 | 42 | 48 | 45 | 62 | 65 | 60 | 60 | 68 | 72 | 66 | 65 | 72 | 66 | 62 | 70                | 66.9              |
|                   | Minimum | 36 | 26 | 32 | 53 | 60 | 64 | 63 | 59 | 47 | 42 | 40 | 41 | 34 | 29 | 41 | 34 | 36 | 33 | 24 | 41 | 47 | 37 | 26 | 32 | 53 | 45 | 37 | 49 | 34 | 37                | 41.1              |
| Clearfield.....   | Maximum | 70 | 53 | 71 | 69 | 75 | 86 | 87 | 83 | 70 | 65 | 68 | 55 | 65 | 64 | 65 | 45 | 47 | 48 | 62 | 65 | 60 | 60 | 68 | 72 | 66 | 65 | 72 | 66 | 62 | 70                | 65.8              |
|                   | Minimum | 40 | 27 | 28 | 35 | 52 | 50 | 52 | 46 | 48 | 40 | 44 | 37 | 34 | 25 | 45 | 34 | 32 | 32 | 31 | 42 | 38 | 26 | 26 | 28 | 28 | 35 | 31 | 42 | 37 | 26                | 36.4              |
| Coatesville.....  | Maximum | 73 | 55 | 67 | 75 | 67 | 85 | 88 | 87 | 73 | 63 | 49 | 47 | 56 | 52 | 46 | 40 | 46 | 52 | 62 | 67 | 74 | 50 | 61 | 69 | 65 | 67 | 70 | 62 | 60 | 66                | 63.1              |
|                   | Minimum | 49 | 31 | 33 | 37 | 50 | 53 | 59 | 56 | 60 | 40 | 37 | 39 | 38 | 42 | 37 | 35 | 35 | 35 | 38 | 34 | 46 | 38 | 30 | 30 | 44 | 56 | 36 | 42 | 46 | 30                | 41.2              |
| Corry.....        | Maximum | 61 | 48 | 67 | 62 | 74 | 83 | 82 | 74 | 60 | 52 | 41 | 44 | 52 | 55 | 46 | 39 | 43 | 43 | 57 | 53 | 49 | 57 | 60 | 69 | 62 | 61 | 68 | 65 | 46 | 66                | 58.0              |
|                   | Minimum | 29 | 24 | 29 | 45 | 56 | 62 | 62 | 52 | 42 | 34 | 35 | 37 | 30 | 27 | 34 | 33 | 29 | 27 | 40 | 40 | 38 | 24 | 29 | 42 | 44 | 32 | 34 | 36 | 28 | 36.8              |                   |
| Emporium.....     | Maximum | 67 | 48 | 66 | 61 | 68 | 84 | 82 | 79 | 65 | 56 | 47 | 53 | 56 | 58 | 49 | 39 | 43 | 42 | 58 | 53 | 60 | 55 | 60 | 68 | 58 | 62 | 68 | 59 | 50 | 65                | 59.3              |
|                   | Minimum | 33 | 28 | 25 | 33 | 53 | 55 | 50 | 48 | 51 | 39 | 38 | 42 | 38 | 27 | 35 | 35 | 34 | 34 | 32 | 43 | 44 | 39 | 25 | 27 | 53 | 47 | 29 | 44 | 38 | 28                | 38.2              |
| Erie.....         | Maximum | 64 | 48 | 70 | 68 | 75 | 79 | 81 | 69 | 53 | 44 | 50 | 47 | 47 | 46 | 45 | 40 | 47 | 40 | 48 | 48 | 47 | 53 | 57 | 63 | 65 | 56 | 66 | 61 | 46 | 52                | 55.8              |
|                   | Minimum | 30 | 28 | 34 | 57 | 57 | 70 | 69 | 46 | 42 | 34 | 38 | 38 | 39 | 37 | 37 | 36 | 37 | 33 | 37 | 40 | 38 | 37 | 36 | 41 | 51 | 43 | 41 | 45 | 38 | 36                | 41.5              |
| Franklin.....     | Maximum | 64 | 49 | 70 | 63 | 77 | 81 | 82 | 72 | 63 | 46 | 46 | 47 | 53 | 60 | 45 | 40 | 49 | 43 | 58 | 62 | 55 | 57 | 62 | 69 | 64 | 61 | 69 | 60 | 50 | 70                | 59.6              |
|                   | Minimum | 41 | 28 | 29 | 34 | 54 | 55 | 57 | 53 | 45 | 40 | 41 | 41 | 35 | 27 | 32 | 36 | 36 | 33 | 24 | 43 | 35 | 28 | 30 | 35 | 45 | 32 | 38 | 36 | 29 | 37                | 37.7              |
| Freeland.....     | Maximum | 60 | 44 | 57 | 66 | 58 | 78 | 83 | 82 | 72 | 53 | 50 | 44 | 53 | 55 | 46 | 33 | 35 | 38 | 50 | 49 | 58 | 46 | 54 | 64 | 55 | 58 | 65 | 55 | 52 | 62                | 55.8              |
|                   | Minimum | 41 | 20 | 31 | 42 | 48 | 53 | 62 | 60 | 44 | 35 | 30 | 31 | 33 | 35 | 29 | 28 | 28 | 30 | 36 | 39 | 31 | 30 | 34 | 45 | 46 | 32 | 42 | 36 | 28 | 28                | 36.9              |
| Gettysburg.....   | Maximum | 78 | 64 | 72 | 72 | 78 | 86 | 89 | 91 | 85 | 58 | 42 | 60 | 55 | 60 | 55 | 41 | 49 | 53 | 63 | 70 | 75 | 61 | 64 | 72 | 66 | 65 | 72 | 68 | 60 | 69                | 66.3              |
|                   | Minimum | 48 | 33 | 36 | 44 | 51 | 52 | 63 | 58 | 58 | 41 | 37 | 39 | 41 | 41 | 38 | 36 | 37 | 37 | 48 | 41 | 37 | 36 | 53 | 55 | 42 | 42 | 45 | 34 | 34 | 34                | 43.2              |
| Greensburg.....   | Maximum | 70 | 54 | 72 | 68 | 77 | 82 | 83 | 83 | 68 | 54 | 55 | 51 | 60 | 61 | 55 | 40 | 49 | 47 | 60 | 73 | 69 | 60 | 63 | 70 | 68 | 63 | 72 | 72 | 59 | 74                | 64.4              |
|                   | Minimum | 36 | 30 | 37 | 52 | 59 | 60 | 62 | 59 | 50 | 45 | 41 | 45 | 40 | 31 | 40 | 36 | 36 | 35 | 28 | 41 | 52 | 39 | 31 | 35 | 53 | 46 | 40 | 40 | 41 | 34                | 42.5              |
| Grove City.....   | Maximum | 65 | 50 | 70 | 62 | 76 | 86 | 82 | 76 | 78 | 56 | 47 | 46 | 54 | 55 | 53 | 48 | 49 | 59 | 58 | 71 | 73 | 55 | 65 | 69 | 65 | 61 | 72 | 66 | 57 | 70                | 63.1              |
|                   | Minimum | 30 | 28 | 32 | 45 | 55 | 61 | 61 | 56 | 40 | 40 | 40 | 40 | 40 | 43 | 37 | 39 | 39 | 35 | 31 | 27 | 28 | 29 | 29 | 33 | 50 | 43 | 34 | 51 | 27 | 35                | 39.0              |
| Hamburg.....      | Maximum | 76 | 60 | 64 | 68 | 63 | 83 | 87 | 87 | 84 | 72 | 51 | 48 | 55 | 57 | 53 | 38 | 43 | 50 | 61 | 60 | 69 | 57 | 62 | 70 | 64 | 66 | 68 | 60 | 64 | 66                | 63.5              |
|                   | Minimum | 40 | 32 | 29 | 36 | 39 | 49 | 56 | 54 | 56 | 41 | 36 | 37 | 38 | 39 | 36 | 36 | 36 | 36 | 37 | 40 | 44 | 36 | 38 | 30 | 43 | 54 | 41 | 33 | 33 | 29                | 39.5              |
| Harrisburg.....   | Maximum | 76 | 54 | 68 | 70 | 68 | 85 | 87 | 89 | 68 | 55 | 45 | 54 | 56 | 57 | 44 | 40 | 47 | 51 | 63 | 56 | 69 | 55 | 66 | 69 | 62 | 66 | 69 | 58 | 57 | 68                | 62.4              |
|                   | Minimum | 41 | 35 | 43 | 44 | 51 | 54 | 66 | 60 | 55 | 41 | 38 | 39 | 41 | 36 | 33 | 32 | 32 | 40 | 44 | 44 | 40 | 41 | 40 | 52 | 54 | 47 | 52 | 47 | 40 | 40                | 44.4              |
| Hawley.....       | Maximum | 66 | 66 | 60 | 70 | 65 | 84 | 87 | 85 | 80 | 63 | 53 | 49 | 47 | 57 | 53 | 39 | 40 | 39 | 53 | 51 | 44 | 53 | 57 | 66 | 62 | 63 | 70 | 67 | 54 | 63                | 60.2              |
|                   | Minimum | 46 | 24 | 28 | 32 | 44 | 48 | 51 | 47 | 49 | 37 | 32 | 33 | 33 | 36 | 34 | 32 | 32 | 35 | 34 | 35 | 40 | 32 | 27 | 26 | 36 | 49 | 30 | 48 | 42 | 29                | 36.7              |
| Huntingdon.....   | Maximum | 74 | 55 | 73 | 68 | 77 | 85 | 87 | 86 | 79 | 59 | 44 | 59 | 59 | 63 | 50 | 40 | 50 | 48 | 63 | 62 | 62 | 59 | 64 | 72 | 69 | 65 | 73 | 69 | 57 | 76                | 64.9              |
|                   | Minimum | 42 | 30 | 33 | 36 | 51 | 55 | 58 | 49 | 59 | 42 | 38 | 40 | 42 | 30 | 37 | 36 | 36 | 37 | 40 | 47 | 43 | 32 | 29 | 47 | 52 | 32 | 50 | 41 | 28 | 41                | 41.0              |
| Johnstown.....    | Maximum | 70 | 56 | 77 | 65 | 77 | 85 | 87 | 85 | 78 | 57 | 43 | 55 | 59 | 63 | 55 | 40 | 46 | 47 | 60 | 64 | 66 | 61 | 66 | 74 | 65 | 65 | 75 | 68 | 55 | 78                | 64.7              |
|                   | Minimum | 36 | 31 | 39 | 49 | 51 | 59 | 61 | 58 | 54 | 43 | 39 | 41 | 42 | 38 | 39 | 34 | 34 | 35 | 44 | 48 | 43 | 34 | 35 | 50 | 47 | 39 | 48 | 41 | 35 | 42                | 42.3              |
| Lancaster.....    | Maximum | 78 | 73 | 73 | 77 | 70 | 87 | 90 | 88 | 64 | 48 | 53 | 57 | 49 | 55 | 42 | 48 | 55 | 66 | 65 | 77 | 72 | 67 | 73 | 71 | 69 | 72 | 68 | 62 | 72 | 68                | 67.               |







51.05  
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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXIV. MAY, 1929. No. 5

### GENERAL SUMMARY.

A moderate temperature deficiency in May was due to severely cold periods that centered about the 10th and 20th respectively. At these times freezing temperatures were recorded in large portions of the State with much damage to orchard fruits, and nearly a complete loss in some localities. Light to moderate rains occurred at frequent intervals during the month, the heaviest rain-falls being generally on the 3d and 19th. Field work was delayed to a considerable extent by the muddy condition of the soil, and crops grew slowly by reason of the low soil temperatures. Wheat, rye, and grass lands made the best showing, the conditions being favorable for their growth. Wheat and rye grew a heavy straw, and were heading rapidly at the close of the month. They were generally reported as being considerably better than the average crops. Hay was more promising than the crop of last year which was called a bumper. Corn came up a fairly even stand in most places, but grew slowly. Truck crops were mostly backward, but otherwise in good condition. Severe windstorms and heavy local rains occurred at several places on the 2d and 3d. The chief damage by wind was reported from Uniontown and York, while the heaviest rainfall occurred at Muncy Valley. Damaging local storms were numerous on the 23th and 29th. A cloud burst flooded Belle Creek, in Susquehanna County, doing many thousands of dollars damage. Much damage was done to buildings in Harrisburg by lightning on the 28th, among them being a hospital and a church. Two persons were killed and five seriously injured by lightning at Johnstown. A church was badly damaged at Lansford. There seemed to be more than the usual amount of disagreeable weather during the month, and it was not wholly favorable for agriculture.

### TEMPERATURE.

The mean temperature for the State, as shown by reports from 87 stations, was 58.5°, which is 1.0° lower than the normal for May. The highest monthly mean was 63.0° at Philadelphia-Point Breeze, and the lowest 52.2° at Brookville. The highest temperature recorded during the month was 97° at Lock Haven on the 30th, while the lowest, 23°, was recorded on the 10th at three stations: Brookville, Ridgway and Somerset. The greatest daily range of temperature for the month was 56°, at Ridgway on the 1st.

### PRECIPITATION.

The average precipitation for the State, based on reports from 134 well-distributed stations, was 4.81 inches, or an excess of 0.82 inch over the normal. The greatest monthly total was 8.43 inches at Clearfield, while the least, 1.96 inches, was reported from the Philadelphia Navy Yard station. The greatest amount reported in any 24 consecutive hours was 3.65 inches at Muncy Valley on the 3d. Light snow fell at several stations during the early part of the month, with the greatest monthly total 1.0 inch at Bradford, all of which occurred on the 4th. The State average, however, was but a trace.

### SUNSHINE, HUMIDITY AND WINDS

| Stations         | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                  | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                  |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....        | 253.9                   | 451.8                    | 56                     | 73               | 65       | 68      | 8,150                    | 11.0                        | 43        | sw.       |
| Harrisburg....   | 283.1                   | 446.2                    | 63                     | 72               | 55       | 60      | 4,628                    | 6.2                         | 30        | nw.       |
| Philadelphia.... | 236.5                   | 446.2                    | 53                     | 79               | 67       | 72      | 9,770                    | 13.1                        | 45        | s.        |
| Pittsburgh.....  | 264.6                   | 449.0                    | 59                     | 74               | 57       | 60      | 6,811                    | 9.2                         | 40        | w.        |
| Reading.....     | 228.1                   | 446.2                    | 51                     | 70               | 52       | 62      | 4,487                    | 6.0                         | 25        | w.        |
| Scranton.....    | 275.0                   | 449.0                    | 61                     | 74               | 56       | 62      | 5,031                    | 6.8                         | 33        | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

### COMPARATIVE DATA FOR MAY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 57.3        | 91      | 24     | 4.24          | 8.41     | 2.26  | .....       | .....         | .....  | 16                     |
| 1889..... | 60.4        | 96      | 25     | 5.91          | 12.41    | 2.51  | .....       | .....         | .....  | 11                     |
| 1890..... | 58.5        | 89      | 23     | 6.71          | 12.41    | 2.96  | .....       | .....         | .....  | 15                     |
| 1891..... | 57.3        | 93      | 20     | 2.12          | 4.41     | 0.31  | 7           | 10            | 11     | 8                      |
| 1892..... | 58.5        | 91      | 28     | 5.70          | 9.30     | 3.77  | 7           | 10            | 14     | 16                     |
| 1893..... | 57.9        | 93      | 26     | 5.54          | 9.20     | 2.92  | 11          | 8             | 12     | 12                     |
| 1894..... | 60.8        | 92      | 27     | 8.88          | 15.02    | 2.72  | 9           | 8             | 14     | 16                     |
| 1895..... | 60.6        | 110     | 22     | 2.68          | 6.46     | 0.86  | 13          | 10            | 8      | 9                      |
| 1896..... | 65.4        | 98      | 31     | 2.85          | 6.30     | 1.19  | 10          | 12            | 9      | 10                     |
| 1897..... | 57.7        | 88      | 25     | 5.24          | 10.05    | 1.71  | 11          | 10            | 10     | 12                     |
| 1898..... | 60.0        | 94      | 22     | 5.11          | 10.15    | 2.79  | 8           | 9             | 14     | 15                     |
| 1899..... | 61.1        | 100     | 24     | 3.82          | 6.40     | 1.15  | 10          | 11            | 10     | 11                     |
| 1900..... | 60.4        | 96      | 20     | 2.79          | 7.63     | 0.72  | 13          | 9             | 9      | 9                      |
| 1901..... | 58.9        | 91      | 28     | 5.56          | 7.96     | 2.24  | 8           | 9             | 14     | 15                     |
| 1902..... | 59.8        | 95      | 25     | 1.96          | 4.45     | 0.29  | 13          | 11            | 7      | 8                      |
| 1903..... | 61.8        | 94      | 18     | 1.67          | 4.65     | 0.22  | 16          | 9             | 6      | 7                      |
| 1904..... | 61.6        | 94      | 21     | 3.78          | 7.50     | 2.07  | 12          | 10            | 9      | 11                     |
| 1905..... | 60.8        | 93      | 22     | 7.59          | 5.17     | 0.56  | 11          | 9             | 11     | 12                     |
| 1906..... | 60.0        | 99      | 23     | 3.23          | 5.59     | 0.93  | 12          | 10            | 9      | 10                     |
| 1907..... | 54.8        | 91      | 19     | 3.08          | 6.38     | 1.44  | 11          | 9             | 11     | 11                     |
| 1908..... | 61.2        | 96      | 22     | 6.28          | 10.95    | 3.19  | 10          | 10            | 11     | 15                     |
| 1909..... | 59.2        | 92      | 23     | 2.90          | 5.52     | 1.51  | 12          | 10            | 9      | 10                     |
| 1910..... | 56.8        | 88      | 24     | 3.38          | 6.08     | 1.73  | 11          | 10            | 10     | 12                     |
| 1911..... | 65.2        | 99      | 20     | 1.97          | 6.81     | 0.42  | 17          | 10            | 4      | 7                      |
| 1912..... | 61.2        | 91      | 28     | 3.15          | 5.99     | 0.99  | 14          | 8             | 9      | 11                     |
| 1913..... | 58.5        | 93      | 21     | 3.86          | 6.45     | 0.48  | 13          | 8             | 10     | 10                     |
| 1914..... | 61.5        | 96      | 19     | 3.34          | 6.52     | 0.90  | 16          | 9             | 6      | 9                      |
| 1915..... | 56.2        | 84      | 21     | 4.16          | 7.45     | 2.29  | 10          | 8             | 13     | 14                     |
| 1916..... | 61.0        | 93      | 26     | 3.19          | 6.09     | 1.49  | 12          | 11            | 8      | 13                     |
| 1917..... | 53.3        | 90      | 20     | 3.39          | 8.09     | 1.65  | 9           | 10            | 12     | 13                     |
| 1918..... | 65.1        | 95      | 21     | 5.04          | 8.37     | 1.81  | 13          | 12            | 6      | 14                     |
| 1919..... | 59.5        | 98      | 27     | 5.80          | 13.59    | 2.86  | 13          | 7             | 11     | 14                     |
| 1920..... | 56.6        | 92      | 18     | 2.02          | 3.65     | 0.67  | 17          | 8             | 6      | 8                      |
| 1921..... | 59.8        | 93      | 22     | 3.93          | 8.17     | 0.97  | 14          | 8             | 9      | 11                     |
| 1922..... | 62.5        | 96      | 20     | 3.21          | 7.14     | 1.69  | 15          | 8             | 8      | 10                     |
| 1923..... | 58.3        | 93      | 20     | 3.50          | 7.43     | 1.23  | 19          | 6             | 6      | 8                      |
| 1924..... | 54.6        | 92      | 18     | 5.71          | 9.64     | 3.31  | 9           | 9             | 13     | 17                     |
| 1925..... | 55.2        | 98      | 22     | 3.49          | 7.98     | 1.02  | 13          | 10            | 8      | 11                     |
| 1926..... | 58.8        | 95      | 18     | 1.78          | 5.52     | 0.62  | 17          | 10            | 4      | 8                      |
| 1927..... | 58.2        | 92      | 23     | 4.14          | 7.23     | 1.75  | 9           | 9             | 13     | 16                     |
| 1928..... | 58.0        | 95      | 20     | 2.23          | 5.10     | 0.65  | 15          | 9             | 7      | 10                     |
| 1929..... | 58.5        | 97      | 23     | 4.81          | 8.43     | 1.96  | 13          | 9             | 9      | 14                     |

### RIVER CONDITIONS

| Stations         | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis..... | Delaware.....     | 4.6        | 6.4           | 4    | 3.7          | 19   | 18          |
| Phillipsburg.... | Delaware.....     | 6.4        | 9.0           | 5    | 4.0          | 31   | 22          |
| Mauch Chunk....  | Lehigh.....       | -1.5       | -0.1          | 4    | -2.4         | 30   | 12          |
| Wilkes-Barre.... | Susquehanna.....  | 9.8        | 17.2          | 4    | 7.7          | 14   | 20          |
| Williamsport.... | Susquehanna.....  | 6.4        | 8.9           | 3    | 4.6          | 14   | 20          |
| Harrisburg.....  | Susquehanna.....  | 7.0        | 11.7          | 5    | 5.6          | 29   | 17          |
| Greensboro.....  | Allegheny.....    | 14.9       | 21.0          | 21   | 11.4         | 18   | 22          |
| West Newton....  | Youghiogheny..... | 3.3        | 7.0           | 29   | 1.9          | 28   | 20          |
| Lock No. 4.....  | Monongahela.....  | 17.3       | 22.3          | 22   | 14.1         | 19   | 31          |
| Pittsburgh.....  | Ohio.....         | 16.0       | 19.5          | 4    | 12.9         | 28   | 25          |
| Beaver Dam.....  | Ohio.....         | 15.5       | 21.7          | 4    | 10.0         | 28   | 30          |



## Climatological Data for May, 1929

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                 |                 |                 | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date            | Lowest          | Date            | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |                 |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 17                      | 59.8                         | .....                     | 94              | 31              | 35 <sup>a</sup> | 10              | 41 <sup>a</sup>          | 2.66  | -0.96                     | .....                | 0                         | 13                           | 13    | 15         | 3                            | sw.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 42                      | 57.2                         | -2.2                      | 88              | 30              | 30              | 8               | 40                       | 4.87  | +0.85                     | 1.67                 | 0                         | 15                           | 13    | 11         | 7                            | w.        | Lewis E. Biller.            |
| Arendtsville       | Adams        | 700             | 5                       | .....                        | .....                     | .....           | .....           | .....           | .....           | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | Dr. S. W. Frost.            |
| Bellefonte         | Center       | 1,050           | 24                      | 55.8                         | .....                     | 94              | 30              | 28              | 10              | 42                       | 4.41  | +0.56                     | 1.62                 | 0                         | 16                           | 7     | 11         | 13                           | .....     | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 45                      | 61.6                         | -1.4                      | 94              | 31              | 38              | 10              | 33                       | 2.66  | -1.06                     | 0.64                 | 0                         | 14                           | 18    | 4          | 9                            | sw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 62                      | 60.8                         | -0.6                      | 93              | 31              | 31              | 10              | 40                       | 4.62  | +0.79                     | 2.83                 | 0                         | 14                           | 19    | 6          | 7                            | s.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 32                      | 58.7                         | -2.7                      | 95              | 30 <sup>+</sup> | 29              | 10              | 44                       | 4.32  | +0.74                     | 2.11                 | 0                         | 12                           | 19    | 5          | 7                            | .....     | H. H. Yetter.               |
| Center Hall        | Center       | 1,272           | 33                      | 55.7                         | -4.1                      | 95              | 30              | 30              | 10              | 43                       | 4.74  | +0.74                     | 1.68                 | T.                        | 12                           | 17    | 8          | 6                            | .....     | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 29                      | 59.4                         | -1.8                      | 89              | 31              | 32              | 17              | 38                       | 4.32  | +0.67                     | 1.34                 | 0                         | 15                           | 13    | 10         | 8                            | sw.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 19                      | 57.8                         | -2.0                      | 96              | 30              | 27              | 11              | 52                       | 8.43  | +3.65                     | 1.40                 | 0                         | 18                           | 8     | 15         | 8                            | nw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 41                      | 59.8                         | -1.9                      | 91              | 31              | 31              | 10              | 39                       | 4.65  | +0.52                     | 1.44                 | 0                         | 14                           | 12    | 11         | 8                            | sw.       | Prof. W. T. Gordon.         |
| Colebrook          | Lebanon      | 560             | 19                      | 58.8                         | -0.2                      | 90              | 31              | 30              | 4               | 37                       | 3.08  | -0.24                     | 1.09                 | 0                         | 12                           | 15    | 7          | 9                            | sw.       | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 41                      | 55.6                         | -3.1                      | 90              | 30              | 25              | 10              | 42                       | 5.35  | +0.90                     | 0.98                 | T.                        | 14                           | 11    | 11         | 9                            | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 28                      | 60.4                         | -0.5                      | 92              | 31              | 34              | 10              | 35                       | 2.48  | -1.05                     | 0.73                 | 0                         | 13                           | 13    | 7          | 11                           | sw.       | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 14                      | 57.2                         | .....                     | 89              | 30              | 31              | 8               | 34                       | 4.87  | .....                     | 1.40                 | T.                        | 17                           | 8     | 10         | 13                           | sw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 22                      | 60.9                         | -0.1                      | 93              | 31              | 36              | 8 <sup>+</sup>  | 34                       | 4.89  | +1.28                     | 3.15                 | 0                         | 10                           | 19    | 7          | 5                            | sw.       | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 55                      | 61.5                         | +0.2                      | 91              | 31              | 35              | 17              | 37                       | 5.93  | +1.96                     | 2.87                 | 0                         | 14                           | 11    | 10         | 10                           | s.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 25                      | 57.0                         | -1.5                      | 89              | 31              | 24              | 10              | 42                       | 3.89  | +0.13                     | 1.70                 | 0                         | 11                           | 19    | 4          | 8                            | w.        | Capt. J. G. Johnson         |
| Gouldsboro         | Wayne        | 1,875           | 6                       | 52.8                         | .....                     | 84              | 30              | 29              | 23              | 36                       | 3.50  | -0.55                     | 1.35                 | 0                         | 10                           | 20    | 4          | 7                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 36                      | 59.1                         | -2.6                      | 90              | 31              | 31              | 4 <sup>+</sup>  | 44                       | 4.20  | -0.30                     | 2.25                 | 0                         | 9                            | 10    | 14         | 7                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 25                      | 61.8                         | -2.1                      | 91              | 31              | 37              | 10 <sup>+</sup> | 33                       | 5.96  | +2.66                     | 2.10                 | 0                         | 16                           | 16    | 6          | 9                            | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 59                      | 60.8                         | -1.0                      | 91              | 31              | 38              | 10              | 32                       | 4.14  | +0.70                     | 2.78                 | 0                         | 13                           | 10    | 9          | 12                           | s.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 10                      | 56.6                         | .....                     | 91              | 31              | 26              | 10              | 45                       | 4.62  | .....                     | 0.97                 | 0                         | 12                           | 12    | 12         | 7                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 14                      | 62.8                         | .....                     | 90              | 29 <sup>+</sup> | 43              | 4               | 37                       | 2.28  | -0.90                     | 0.77                 | 0                         | 11                           | 17    | 6          | 8                            | .....     | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 41                      | 59.4 <sup>a</sup>            | -1.3                      | 93 <sup>a</sup> | 30              | 30 <sup>a</sup> | 10 <sup>+</sup> | 46 <sup>a</sup>          | 3.59  | -0.73                     | 0.80                 | 0                         | 13                           | 8     | 12         | 11                           | w.        | Prof. W. J. Swigart.        |
| Hyndman            | Bedford      | 977             | 18                      | 59.8                         | -1.0                      | 90              | 28              | 31              | 8 <sup>+</sup>  | 46                       | 3.62  | +0.42                     | 0.80                 | 0                         | 14                           | 6     | 11         | 14                           | .....     | John S. Madore.             |
| Lancaster          | Lancaster    | 255             | 41                      | 59.8                         | -1.2                      | 95              | 31              | 29              | 10              | 43                       | 3.33  | +0.05                     | 0.93                 | 0                         | 9                            | 21    | 3          | 7                            | s.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 31                      | 56.4                         | -1.1                      | 93              | 30              | 27              | 10              | 44                       | 6.34  | +2.48                     | 2.35                 | T.                        | 11                           | 15    | 9          | 7                            | .....     | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 88                      | 60.0                         | -1.0                      | 92              | 31              | 33              | 10              | 38                       | 2.91  | -1.12                     | 1.50                 | 0                         | 11                           | 14    | 13         | 4                            | sw.       | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 54                      | 60.0                         | +1.5                      | 94              | 31              | 32              | 8               | 46                       | 5.66  | +1.73                     | 2.40                 | 0                         | 12                           | 13    | 10         | 8                            | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 39                      | 61.4                         | -0.5                      | 97              | 30              | 32              | 8               | 43                       | 4.07  | +0.23                     | 1.28                 | 0                         | 14                           | 11    | 12         | 8                            | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 14                      | 58.9                         | -0.2                      | 92              | 31              | 26              | 10              | 44                       | 3.71  | -0.58                     | 2.15                 | 0                         | 11                           | 14    | 10         | 7                            | nw.       | Susquehanna Collieries Co.  |
| Mauch Chunk        | Carbon       | 600             | 38                      | 58.3 <sup>b</sup>            | -1.8                      | 93 <sup>b</sup> | 31              | 28 <sup>b</sup> | 10              | 47 <sup>b</sup>          | 3.94  | -0.07                     | 0.77                 | 0                         | 15                           | 15    | 7          | 9                            | s.        | R. K. Wintermute.           |
| Midlinton          | Juniata      | 445             | 25                      | 58.8                         | -1.9                      | 92              | 30              | 30              | 10              | 43                       | 3.42  | -0.82                     | 1.27                 | 0                         | 11                           | 19    | 4          | 8                            | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 26                      | 53.1                         | -1.9                      | 85              | 30              | 26              | 8               | 36                       | 5.29  | +1.59                     | 1.80                 | 0                         | 10                           | 12    | 11         | 8                            | w.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 53.6                         | -1.1                      | 82              | 29 <sup>+</sup> | 26              | 1               | 34                       | 4.09  | +0.30                     | 1.46                 | 0                         | 12                           | 11    | 7          | 13                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 17                      | 55.9                         | -1.3                      | 91              | 30              | 28              | 4 <sup>+</sup>  | 33                       | 7.27  | +2.90                     | 3.65                 | 0                         | 11                           | 17    | 9          | 5                            | w.        | H. O. Hacker.               |
| Narberth           | Montgomery   | 300             | 10                      | 60.4                         | .....                     | 92              | 31              | 36              | 4               | 34                       | 3.51  | .....                     | 0.74                 | 0                         | 17                           | 10    | 10         | 11                           | sw.       | Charles Decker.             |
| Neshaminy Falls    | Bucks        | 60              | 40                      | 60.6                         | +1.3                      | 92              | 31              | 31              | 4               | 38                       | 3.75  | .....                     | 1.96                 | 0                         | 13                           | 13    | 6          | 12                           | s.        | North Springfield Water Co. |
| Palmerton          | Carbon       | 395             | 12                      | 58.3                         | .....                     | 90              | 31              | 30              | 10              | 38                       | 3.83  | .....                     | 1.47                 | 0                         | 12                           | 7     | 12         | 12                           | sw.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 58                      | 62.8                         | -0.1                      | 92              | 31              | 44              | 8               | 31                       | 2.28  | -0.98                     | 0.52                 | 0                         | 15                           | 8     | 8          | 15                           | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 5                       | 62.6                         | .....                     | 93              | 31              | 42              | 4 <sup>+</sup>  | 32                       | 2.12  | .....                     | 0.39                 | 0                         | 12                           | 10    | 10         | 11                           | .....     | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 13                      | 61.4                         | -0.3                      | 91              | 31              | 41              | 10              | 31                       | 1.96  | -1.35                     | 0.40                 | 0                         | 16                           | 8     | 4          | 19                           | .....     | Commandant, Navy Yard.      |
| Phila-Point Breeze | Philadelphia | 90              | 4                       | 63.0                         | .....                     | 93              | 31              | 41              | 4 <sup>+</sup>  | 33                       | 2.16  | .....                     | 0.51                 | 0                         | 12                           | 19    | 6          | 6                            | sw.       | Atlantic Refining Co.       |
| Phoenixville       | Chester      | 100             | 18                      | 62.4                         | +1.4                      | 93              | 31              | 34              | 10              | 40                       | 4.47  | +0.51                     | 0.95                 | 0                         | 13                           | 13    | 16         | 2                            | sw.       | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 44                      | 59.4                         | -0.2                      | 92              | 31              | 31              | 6 <sup>+</sup>  | 38                       | 3.95  | -0.07                     | 1.60                 | 0                         | 14                           | 12    | 11         | 8                            | nw.       | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 61.4                         | -1.1                      | 93              | 31              | 39              | 4               | 34                       | 3.48  | -0.19                     | 1.00                 | 0                         | 14                           | 9     | 11         | 11                           | sw.       | U. S. Weather Bureau.       |
| Seranton           | Lackawanna   | 805             | 34                      | 58.2                         | -1.2                      | 92              | 30              | 33              | 10              | 35                       | 3.70  | +0.43                     | 0.95                 | 0                         | 14                           | 6     | 10         | 15                           | sw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 39                      | 59.3                         | -1.8                      | 92              | 31              | 32              | 10              | 38                       | 4.92  | +0.84                     | 2.79                 | 0                         | 11                           | 17    | 4          | 10                           | w.        | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 33                      | 62.1                         | .....                     | 90              | 31              | 38              | 4 <sup>+</sup>  | 33                       | 3.26  | -0.20                     | 1.32                 | 0                         | 12                           | 12    | 8          | 11                           | nw.       | W. S. Gules.                |
| State College      | Center       | 1,217           | 44                      | 57.8                         | -1.3                      | 92              | 30              | 32              | 10              | 43                       | 4.43  | +0.46                     | 1.11                 | T.                        | 13                           | 12    | 12         | 7                            | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 57.1                         | -2.8                      | 94              | 30              | 29              | 10              | 43                       | 4.73  | +1.12                     | 0.95                 | 0                         | 12                           | 13    | 7          | 11                           | w.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 34                      | 55.8                         | -2.2                      | 89              | 30              | 30              | 10              | 38                       | 4.97  | +1.76                     | 1.30                 | 0                         | 13                           | 7     | 10         | 14                           | s.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 63                      | 54.4                         | -2.4                      | 92              | 30              | 25              | 10              | 49                       | 5.63  | +1.58                     | 0.95                 | 0                         | 13                           | 20    | 6          | 5                            | sw.       | George W. Hill.             |
| West Chester       | Chester      | 455             | 91                      | 60.6                         | -0.1                      | 90              | 31              | 37              | 4               | 33                       | 5.34  | +0.89                     | 2.45                 | 0                         | 14                           | 12    | 14         | 5                            | sw.       | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 42                      | 59.6                         | -1.1                      | 95              | 30              | 32              | 8 <sup>+</sup>  | 42                       | 4.84  | +1.64                     | 0.94                 | 0                         | 15                           | 16    | 7          | 8                            | nw.       | Miss Veronica E. April.     |
| York               | York         | 400             | 41                      | 61.0                         | -0.7                      | 91              | 31              | 31              | 10              | 40                       | 3.92  | +0.54                     | 1.29                 | 0                         | 13                           | 14    | 9          | 8                            | e.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |                 |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 36                      | 59.5                         | -0.9                      | 88              | 27 <sup>+</sup> | 31              | 10              | 40                       | 5.52  | +1.40                     | 1.17                 | 0                         | 14                           | 6     | 12         | 13                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 14                      | 58.1                         | .....                     | 92              | 30              | 34              | 8 <sup>+</sup>  | 40                       | 5.73  | .....                     | 0.92                 | 1.0                       | 15                           | 9     | 15         | 7                            | s.        | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 38                      | 52.2 <sup>a</sup>            | -4.3                      | 93 <sup>a</sup> | 30              | 28 <sup>a</sup> | 10              | 48 <sup>a</sup>          | 6.00  | +2.33                     | 1.50                 | 0                         | 14                           | 13    | 11         | 7                            | .....     | John Fawcett.               |
| Butler             | Butler       | 1,152           | 4                       | 58.4                         | .....                     | 91              | 27              | 26              | 10              | 44                       | 5.49  | .....                     | 1.32                 | T.                        | 9                            | 17    | 4          | 10                           | w.        | William C. Faust.           |
| Claysville         | Washington   | 1,150           | 25                      | 59.8                         | -1.5                      | 92              | 30              | 28              | 10              | 47                       | 6.05  | +2.61                     | 1.35                 | T.                        | 18                           | 16</  |            |                              |           |                             |



## Daily Precipitation for May, 1929

| Stations            | Drainage Basin | Day of month |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |     |      |     |     |     |     |      |      |      |      |      |      | Total |
|---------------------|----------------|--------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|------|-----|-----|-----|-----|------|------|------|------|------|------|-------|
|                     |                | 1            | 2    | 3    | 4    | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17   | 18   | 19   | 20  | 21   | 22  | 23  | 24  | 25  | 26   | 27   | 28   | 29   | 30   | 31   |       |
| Atlantic Drainage.  |                |              |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |     |      |     |     |     |     |      |      |      |      |      |      |       |
| Allentown\|\|\| | Lehigh         |              | *    | .89  | T.   | T.  | T.  | .52 |     |     |     |     |     | .10 | .20 | .12 | .01 | T.   | .19  |      | .43 | .29  | .27 | .05 |     |     | .01  |      |      | .01  |      |      | 2.66  |
| Altoona             | Juniata        |              | .25  | .60  | .02  |     | .57 | .12 |     |     |     | .02 |     | .70 | .03 | .02 |     |      |      | .43  | .29 | .29  |     |     |     | .06 |      |      | .07  | 1.67 |      |      | 4.87  |
| Ansonia\|\|\| | W. Br. Susq.   |              |      | 1.01 | T.   | .13 |     | .33 |     |     |     |     | .65 | .29 | .54 | .02 | .06 |      |      | .57  | .09 | .44  |     |     |     | .34 |      |      | .76  | .89  | .11  |      | 6.23  |
| Arendtsville\|\|\| | Lower Susq.    |              |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |      |      | .70  |     | .24  |     |     | .14 |     |      |      | 1.42 | .22  |      |      | 5.19  |
| Baker's Summit      | Juniata        |              | .24  | .60  | .03  |     | .46 | .05 |     |     |     |     | .36 | .56 | .02 | .15 |     |      |      | .70  |     | .24  |     |     | .14 |     |      |      | 1.42 | .22  |      |      | 5.19  |
| Bellefonte***       | W. Br. Susq.   |              | 1.48 | .15  | .01  | .01 | .51 | .01 |     |     |     | .26 | .01 | .26 | T.  | .06 |     |      | .10  | .69  | T.  | .41  |     |     | .18 |     |      | .23  | .04  | T.   |      |      | 4.41  |
| Bethlehem           | Lehigh         |              |      | .55  |      | .10 |     | .64 |     | T.  |     | .11 | .01 | .26 | .04 | T.  |     |      |      | .51  | .01 | .36  | .01 |     | .02 |     |      |      | .01  | .03  |      |      | 2.66  |
| Bloersville†        | Lower Susq.    |              | 1.62 |      |      | .05 | .52 |     |     |     |     | .17 | .18 | .15 |     |     |     |      | .70  | .25  | .18 |      |     |     |     |     |      | .01  | .03  | .27  |      |      | 4.62  |
| Carlisle            | Lower Susq.    |              | .30  | 2.53 | T.   | .04 | .18 | .24 |     | T.  |     | .28 | .15 | .12 | .03 | .08 | .13 |      |      | .28  | T.  | .22  |     |     | T.  |     |      |      | .04  | T.   |      |      | 4.62  |
| Catawissa†          | N. Br. Susq.   |              | 1.80 | .31  |      | .12 | .25 |     |     |     |     | .19 |     | .42 | .03 |     |     |      | .04  | .66  |     | .36  |     |     | T.  |     |      | .13  | .01  |      |      |      | 4.32  |
| Center Hall         | Susquehanna    |              | 12   | 1.68 |      | .22 | .35 | .42 |     |     |     | .10 |     | .03 |     |     |     |      |      | .68  | .22 | .78  |     |     | .02 |     |      |      | .12  |      |      |      | 4.74  |
| Chambersburg        | Potomac        |              | .42  | .75  | T.   | .13 | .36 | .11 |     |     |     | .03 | .13 | .11 | .03 | .13 |     |      |      | .46  |     | .15  |     |     | T.  | .08 |      |      | 1.34 | .09  |      |      | 4.32  |
| Clearfield          | W. Br. Susq.   |              | .25  | .70  | T.   | .15 | .50 | .15 |     |     |     | .22 | .40 | .40 | .32 | .60 |     |      |      | .65  |     | 1.40 |     | .20 | .90 | .30 |      |      | .02  | 1.22 | .05  |      | 8.43  |
| Coatesville         | Lower Del.     | .19          | .08  | .87  |      | .08 | .38 |     |     | .02 |     | .45 | .09 | .10 | .02 | .06 |     |      | 1.44 | T.   | .30 |      |     | .47 |     |     |      |      |      |      |      |      | 4.55  |
| Colebrook           | Lower Susq.    |              | T.   | .36  | 1.09 |     | .04 | .15 | T.  |     |     | .22 | .13 | .16 | .05 |     |     | T.   |      | .60  |     | .34  |     |     | .02 |     |      |      | .02  |      | T.   |      | 3.08  |
| Conshohocken        | Schuylkill     | .14          | .06  | .04  |      | .19 | .08 | .43 |     | .08 |     | .19 | .02 |     |     |     | T.  | T.   |      | 1.60 | .70 |      |     | .12 | .20 |     |      |      |      |      |      |      | 3.85  |
| Cresson†            | Juniata        |              | .82  |      |      |     | .64 |     |     |     |     | .42 | .20 | .32 |     |     |     |      |      | .72  |     | .32  |     |     | .11 |     |      |      | 2.40 | .62  |      |      | 6.57  |
| Doylestown          | Lower Del.     | .04          | T.   | .06  |      | .38 |     | .61 |     | .05 |     | .04 |     | .23 | T.  | .02 |     |      | 1.89 |      | .37 | .02  |     | .03 |     |     |      |      |      |      |      |      | 3.74  |
| Driftwood\|\|\| | W. Br. Susq.   |              | .04  | .70  |      | .14 |     | .46 |     |     |     | .05 | .20 |     |     |     | .01 |      | *    | .70  |     | .60  |     |     | .16 |     |      |      |      |      |      |      | 4.16  |
| Emporium            | do             |              | .30  | .24  | .04  | .29 | .31 |     |     |     |     | .71 |     | .98 | .25 | .15 |     |      | .90  |      | .52 |      |     | .23 |     |     | T.   | .13  | .30  |      |      |      | 5.35  |
| Ephrata             | Lower Susq.    | T.           | .09  | .33  | T.   | .08 | .10 | .27 |     | .02 |     | .17 | .11 | .15 | T.  | .16 |     |      | .73  |      | .25 |      |     | .02 |     |     |      |      |      |      |      |      | 2.48  |
| Forest City         | N. Br. Susq.   |              |      | 1.17 |      |     | .47 |     |     |     |     |     |     | .30 | .51 |     |     |      | .39  | .28  | .57 |      |     | .22 | .23 |     |      |      | .33  |      |      |      | 4.47  |
| Freeland\|\|\| | Lehigh         |              |      | 1.33 |      | .02 | .13 | .22 |     |     |     |     | .34 | .30 | .05 | .01 | .02 |      |      | .10  | .38 | .25  | .21 |     |     | .06 |      |      | .02  | .03  | 1.40 |      | 4.87  |
| George School       | Lower Del.     | .08          | T.   |      | .02  | .25 |     | .42 |     | .10 |     | .17 |     | .30 |     | T.  |     |      | 3.15 |      | .35 | .05  |     |     |     |     |      |      |      |      |      |      | 4.89  |
| Gettysburg          | Potomac        |              | .46  | 2.41 |      | .01 | .07 | .05 |     | .03 |     |     | .28 | .13 | .01 | T.  |     |      | 1.53 |      | .17 |      |     | T.  | .09 |     |      |      | .66  |      | .03  |      | 5.93  |
| Girardville†        | Lower Susq.    |              | 1.02 | .70  | .07  | .12 | .06 | .17 |     |     |     |     | .38 |     |     | T.  |     |      | .12  | .48  |     | .51  | .18 |     | .22 |     |      |      | .05  | .09  |      |      | 4.17  |
| Gordon              | Lower Susq.    |              | .16  | 1.70 |      | .18 | .12 | .09 |     |     |     | .04 | .04 | .32 |     |     |     |      | .62  |      | .32 |      |     | .30 |     |     |      |      |      |      |      |      | 3.89  |
| Gouldsboro\|\| | Lehigh         |              |      | 1.35 |      |     | .15 | .20 |     |     |     |     | .35 | .25 | .20 |     |     |      | .35  |      | .20 | .25  |     |     | .20 |     |      |      |      |      |      |      | 3.50  |
| Graterford          | Schuylkill     | .08          |      | .36  |      |     | .67 |     |     |     |     | .23 |     | .18 | .04 |     |     |      | 2.09 |      | .28 |      |     |     |     |     |      | .03  | .06  |      |      |      | 4.02  |
| Hamburg             | Schuylkill     |              | .06  | .69  |      | .06 |     |     |     |     |     | .14 |     | .31 |     |     |     |      | .40  |      | .25 |      |     | .04 |     |     |      |      | 2.25 |      |      |      | 4.20  |
| Hanover             | Lower Susq.    |              | .13  | 1.97 |      | .07 | .08 | .15 |     | .03 |     | T.  | .36 | .12 | .03 |     |     |      | 1.09 |      | .18 |      |     |     | .16 |     |      |      | .92  | .02  | .31  | .34  | 5.96  |
| Harrisburg***       | do             |              | 2.71 | .07  | T.   | .08 | .20 |     |     |     |     | .17 | .01 | .14 | .01 | .11 |     | .05  | .36  |      | .16 |      |     | T.  |     |     |      | .07  | T.   |      |      | 4.14 |       |
| Hawley\|\|\| | Upper Del.     |              | T.   | .97  | T.   | T.  | .06 | .39 |     |     |     |     | .70 | .08 | .73 |     |     |      | .04  | .50  | .36 | .20  |     | .50 |     |     |      | .50  |      | .09  |      | 4.62 |       |
| Hollisterville      | Upper Del.     |              |      | 1.11 |      | .02 | .15 | .34 |     |     |     |     | .54 | .20 | .48 |     |     |      | .09  | .54  | .32 | .23  |     | .22 |     |     |      |      |      |      |      |      | 4.24  |
| Holtwood\|\| | Lower Susq.    |              | .07  | .09  |      |     | .09 | .36 |     | .02 |     |     | .15 | .09 | T.  | .04 |     |      | .77  | .28  | .26 | T.   |     |     | .10 |     |      |      |      |      |      |      | 2.28  |
| Huntingdon          | Juniata        |              | .08  | .80  | T.   | .02 | .55 | .06 |     |     |     | T.  | .15 | .41 | T.  | .04 |     |      | .53  |      | .25 | T.   |     | .03 |     |     |      | .12  | .55  | T.   |      |      | 3.59  |
| Hyndman             | Potomac        |              | .20  | .80  |      |     | .41 | .02 |     | T.  |     |     | .14 | .35 | .01 | .01 |     |      | .48  | .07  | .18 |      |     | T.  |     |     |      | .46  | .48  | .01  |      |      | 3.62  |
| Lakeville\|\|\| | Upper Del.     |              | T.   | 1.00 | T.   |     | T.  | .09 |     |     |     |     | .73 | .10 | .65 | T.  | T.  |      | .10  | .58  | .85 | .27  |     |     | .54 |     |      |      | .35  | .19  |      |      | 5.45  |
| Lancaster           | Lower Susq.    |              |      | .36  |      | .10 | .45 |     |     | .04 |     |     | .72 |     | .11 |     |     |      | .93  |      | .25 |      |     |     | .37 |     |      |      |      |      |      |      | 3.33  |
| Lansford\|\|\| | Lehigh         |              | T.   | .95  |      | *   | .12 | .21 |     |     |     | T.  |     | .23 | .12 | .19 | .04 |      |      | 1.18 | .30 | .05  |     |     | .16 |     |      |      | .39  | .35  |      |      | 4.29  |
| Lawrenceville       | N. Br. Susq.   | T.           | .10  | T.   |      | .90 | .18 |     |     |     |     | .45 |     | .60 |     | .05 |     |      | .85  |      | .25 |      |     | .43 |     |     | .18  | 2.35 | T.   |      |      |      | 6.34  |
| Lebanon             | Lower Susq.    | T.           | 1.50 | T.   |      | T.  | .05 | .07 | T.  |     |     | .10 | .18 | .05 | T.  | .06 |     | .49  | .16  | .21  | .04 |      |     | T.  |     |     |      | T.   | T.   |      |      |      | 2.91  |
| Lewisburg           | W. Br. Susq.   |              | .36  | 2.40 |      | .12 | .48 | .04 |     |     |     | .17 |     | .50 |     | .02 |     |      | .78  |      | .40 |      |     | .08 |     |     |      |      | .31  | T.   |      |      | 5.66  |
| Lloyd               | do             |              | .08  | .48  |      | .41 | .31 |     |     |     |     | .14 | .61 | .42 |     |     |     |      | .71  |      | .36 |      |     | .04 |     |     |      | .51  | .31  |      |      |      | 4.38  |
| Lock Haven          | do             |              | 1.10 | .18  |      | .18 | .22 | .30 |     |     |     | .09 |     | .41 | .03 | .05 |     |      | .68  |      | .52 |      |     | .17 |     |     |      | .10  | .04  |      |      |      | 4.07  |
| Lykens              | Susquehanna    |              | T.   | 2.15 | T.   |     | .17 | .12 | .11 |     |     | T.  | .07 | .23 |     | .04 |     |      | .28  |      | .22 |      |     | T.  |     |     |      | .09  | .23  |      | T.   |      | 3.71  |
| Mauch Chunk         | Lehigh         |              | .25  | .77  | .01  | .02 | .18 | .02 |     |     |     | .07 |     | .46 | .03 | .15 |     |      | .71  |      | .65 |      |     | .22 |     |     |      | .30  | .10  |      |      |      | 3.94  |
| Mifflintown         | Juniata        |              | .27  | 1.00 |      | .08 | .49 | .05 |     |     |     |     | .15 | .20 |     |     |     |      | .95  |      | .20 |      |     | .02 |     |     |      | .01  |      |      |      |      | 3.42  |
| Montrose            | N. Br. Susq.   |              | .13  | 1.80 |      | .15 | .20 |     |     |     |     | .35 |     | .35 | .20 |     |     |      | .52  |      | .65 |      |     | .94 |     |     |      |      |      |      |      |      | 5.29  |
| Morris Run          | N. Br. Susq.   |              | .06  | .87  |      | .38 | .28 | .14 |     |     |     | .32 |     | .44 | .10 | .06 |     |      | .80  |      | .41 |      |     | .45 |     |     | 1.73 | T.   |      |      |      |      | 6.04  |
| Mount Pocono        | Upper Del.     |              | T.   | 1.46 |      |     | .10 | .33 |     |     |     | .27 |     | .60 | .10 |     |     |      | .29  | .20  | .56 | .04  |     | .03 | .11 |     |      |      |      |      |      |      | 4.09  |
| Muncy Valley        | W. Br. Susq.   |              | .30  | 3.65 |      | .32 | .44 |     |     |     | .33 |     | .23 | .23 | .10 |     |     |      | .37  |      | .52 |      |     | .08 |     |     |      | .93  |      |      |      |      | 7.27  |
| Narberth            | Lower Del.     | .16          | T.   | .21  |      | .23 | .01 | .41 |     | .08 |     | .34 | .07 | .14 | .04 | .05 |     |      | .74  | .01  | .31 | .02  |     | T.  | .68 |     |      | T.   | .01  |      |      |      | 3.51  |
| Neshaminy\|\|\| | Lower Del.     |              | .15  | .05  | T.   |     | .15 | .50 | .10 | .05 |     | .08 | .13 | .20 |     |     |     | 1.53 | .43  | .28  | .10 |      |     | T.  |     |     |      |      |      | T.   |      |      | 3.75  |
| New Park            | Lower Susq.    | .07          | .08  | .25  |      |     | .46 | .16 |     |     |     | .23 | .08 |     |     |     |     | 1.24 | .78  | .48  |     |      |     | .49 |     |     |      | T.   |      |      | T.   | .05  | 4.37  |
| Palmertons          | Lehigh         |              | .69  | .78  |      | .04 | .22 |     |     |     |     | T.  |     | .19 |     | .01 |     | .51  | .15  |      | .50 |      |     | .41 |     |     |      | .18  |      |      | .15  |      | 3.83  |
| Paupack\|\|\| | Upper Del.     |              |      | 1.10 |      | .05 | .09 | .45 |     |     |     | T.  | .35 | .10 | .46 |     |     |      | .06  | .41  | .38 | .18  |     | .34 |     |     |      |      | .17  | .51  |      |      | 4.64  |
| Philadelphia***     | Lower Del.     |              | .13  | .05  | .06  |     | .20 | .52 |     | .06 |     | .24 |     | .07 | .05 | .01 |     | T.   | .24  | .12  | .18 | .03  |     | .32 |     |     |      | T.   |      |      |      |      | 2.28  |
| Philadelphia-Gtn.   | do             |              | .12  | .04  |      | .16 |     | .37 | .04 |     |     | .33 | T.  | .10 | T.  | .01 |     |      | .39  |      | .26 | .02  | .28 |     |     |     |      | T.   |      |      |      |      | 2.12  |
| Phila. Navy Yard\|\|\| | do             |              | .18  | .05  | .03  | T.  | .18 | .35 | .04 | .04 |     |     | .17 | .07 | .06 |     | T.  |      | .14  | .11  | .12 |      |     | .40 |     |     |      |      | .01  | .01  |      |      | 1.96  |
| Phila. P'nt Breeze† | Lower Del.     | .13          | T.   | .12  |      | .22 | .51 |     |     | .06 |     | .15 |     | .09 | .08 | T.  |     | T.   | .20  |      | .21 | .01  | T.  | .38 |     |     |      | T.   | T.   |      |      |      | 2.16  |
| Phoenixville        | Schuylkill     |              | .06  | .48  |      | .48 | .17 | .55 |     | .06 |     |     | .95 | .15 | .05 | T.  |     |      | .92  | .06  | .25 |      |     |     |     |     |      |      | .29  |      |      |      | 4.47  |
| Pine Grove          | Lower Susq.    |              | 1.14 | .25  | .04  | .09 | .19 |     |     |     |     | .   |     |     |     |     |     |      |      |      |     |      |     |     |     |     |      |      |      |      |      |      |       |

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## Daily Precipitation for May, 1929—Continued from page 23

| Stations          | Drainage Basin | Day of month |      |      |     |     |     |     |   |     |     |     |     |      |      |      |     |     |      |      |     |      |     |     |     |     |     |      |      |     |     |      | Total |
|-------------------|----------------|--------------|------|------|-----|-----|-----|-----|---|-----|-----|-----|-----|------|------|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|------|------|-----|-----|------|-------|
|                   |                | 1            | 2    | 3    | 4   | 5   | 6   | 7   | 8 | 9   | 10  | 11  | 12  | 13   | 14   | 15   | 16  | 17  | 18   | 19   | 20  | 21   | 22  | 23  | 24  | 25  | 26  | 27   | 28   | 29  | 30  | 31   |       |
| Ohio Drainage.    |                |              |      |      |     |     |     |     |   |     |     |     |     |      |      |      |     |     |      |      |     |      |     |     |     |     |     |      |      |     |     |      |       |
| Beaver Dam\|\|\| | Ohio           | .07          | 1.17 | T.   | .57 |     |     | .14 |   |     |     |     |     | .35  | .73  | .32  | .02 |     |      | .78  | .02 | .62  |     | .05 | .02 |     |     |      |      | .66 |     |      | 5.52  |
| Beaver Falls\|\|\| | Beaver         | .07          | 1.25 | T.   | .49 |     |     | .15 |   |     |     |     |     | .15  | .33  | .70  | T.  |     |      | .52  | .01 | .60  | .01 | .03 | T.  |     |     |      | .21  |     |     | 4.52 |       |
| Bradford          | Allegheny      | .28          | .22  | .05  | .72 | .14 | .20 |     |   |     |     |     | .24 |      | .88  | .12  | .35 |     |      | .70  |     | .25  |     | .14 |     |     | .52 | .92  |      |     |     | 5.73 |       |
| Brookville        | do             | .15          | 1.00 | .25  | .30 | .15 | .25 |     |   |     |     |     | .50 |      | .50  |      | .05 |     |      | .25  | .25 | .50  |     | .35 |     |     |     | 1.50 |      |     |     | 6.00 |       |
| Butler            | Ohio           |              | 1.32 | .65  |     |     | .24 |     |   |     |     |     |     | 1.30 | .58  |      |     |     |      | .65  | .53 |      |     |     |     |     | .10 | .12  |      |     |     | 5.49 |       |
| Claysville        | do             |              | .90  | .23  | .03 | .20 | .46 | .08 |   |     |     |     | .12 | .41  | .35  | .12  | .20 |     | .01  | 1.34 | .04 | .63  |     | .06 |     |     |     | .12  | .75  |     |     | 6.05 |       |
| Cloett            | Allegheny      | .03          | .64  | .07  | .10 | .08 | .31 |     |   |     |     |     | .23 | T.   | .93  | .08  | .24 |     | .15  | .51  | .12 | .82  |     | .08 |     |     |     | .08  | .11  |     |     | 4.58 |       |
| Clymer††          | Conemaugh      | .18          | .51  |      | .26 | .19 |     |     |   |     |     |     | .05 | .21  | .51  | .17  | .14 |     |      | .92  |     | .73  |     | .15 |     |     |     | .08  | .43  |     |     | 4.53 |       |
| Confluence\|\|\| | Youghiogheny   | T.           | .70  | .04  | .07 | .03 | .55 |     |   |     |     |     | .30 | .20  | .08  | .05  | .06 |     |      | .70  | .20 | .45  | .08 |     | .07 |     |     | .76  | .10  |     |     | 4.44 |       |
| Coraopolis\|\|\| | Ohio           | .26          | .77  |      |     |     | .34 |     |   |     |     |     |     | .43  | .66  | .09  | .02 |     |      | .89  | .04 | .44  |     | .04 | .01 |     |     |      | .70  |     |     | 4.69 |       |
| Corry             | Allegheny      | 1.80         | .31  | .03  |     | .30 |     |     |   |     | .10 | .16 |     | 1.05 | .02  | .01  |     | .40 | .39  | .01  |     | .09  |     | .09 |     |     |     | .62  |      |     |     | 5.29 |       |
| Coudersport       | do             | .76          |      | .39  | .04 | .41 |     |     |   |     |     | .46 |     | .66  | .35  | .38  |     |     |      | .69  | .40 | .02  |     | .23 |     |     | .55 | .11  |      |     |     | 5.45 |       |
| Creekside         | Allegheny      | T.           | 1.04 |      | .27 | .48 |     |     |   |     |     |     | .28 |      | .92  |      | .20 |     |      | 1.08 |     | .76  |     |     |     |     |     |      | .68  |     |     | 5.71 |       |
| Derry             | Conemaugh      | .48          | .42  |      | .12 | .43 | .09 |     |   |     |     |     | .23 | .32  | .50  | .03  |     |     |      | .80  |     | .51  |     | .35 |     |     |     | 1.20 | .06  |     |     | 5.54 |       |
| Donora\|\|\| | Monongahela    | .38          | 1.00 |      |     | .02 | .40 |     |   |     |     |     |     | .35  | .30  | .25  | .30 |     |      |      | .65 | .65  | .02 |     | .15 |     |     |      | 1.08 | .04 | .02 | 5.61 |       |
| Ebensburg         | Conemaugh      | .13          | .64  |      |     | .60 | .16 |     |   |     |     |     |     | .36  | .45  | T.   |     |     |      | .81  |     | .23  |     | .15 |     |     |     | .05  | .90  |     |     | 4.48 |       |
| Elk Lick          | Youghiogheny   | .80          | .32  |      |     | .56 |     |     |   |     |     |     | .48 |      | .38  |      | .20 |     | .70  | .12  | .10 | .35  |     |     |     |     |     | .60  | .15  | .35 |     | 5.11 |       |
| Falls Creek       | Allegheny      | .34          | .40  |      | .30 | .12 | .30 |     |   |     |     |     | .29 |      | 1.46 | .10  | .12 |     |      | .65  |     | .79  |     | .35 |     |     |     |      | 1.10 |     |     | 6.32 |       |
| Franklin\|\|\| | Allegheny      | .10          | 1.45 | .10  | .50 |     | .27 |     |   |     |     |     | .14 | .33  | .58  | .84  | .34 |     |      | .74  | .02 | .66  |     | .14 |     |     |     | .08  | .03  | .03 |     | 6.30 |       |
| Freeport\|\|\| | do             | .26          | .73  |      | .48 | T.  | .37 |     |   |     |     |     |     | .49  | .57  | .17  | .06 | T.  |      | .65  | .09 | .65  | .02 | .06 | .05 |     |     | .28  | .55  |     | .03 | 5.51 |       |
| Greensboro        | Monongahela    | .12          | .72  | .05  | .18 | .01 | .67 |     |   |     |     |     |     | .38  | .59  | .05  |     | .01 |      | .76  | .34 | .52  | .05 |     | .03 |     |     | .02  | 1.24 |     |     | 5.74 |       |
| Greensburg        | Youghiogheny   | 1.05         | .18  | .05  | .12 | .50 | .08 |     |   |     |     |     | .19 | .59  | .43  | .05  | .03 |     | T.   | .86  |     | .73  |     | .24 |     |     |     | .09  | .66  |     |     | 5.85 |       |
| Greenville        | Beaver         | .57          | 1.95 | T.   | .31 | .08 | .21 |     |   |     |     |     | .60 | T.   | .94  | .18  | .04 |     |      | .87  |     | .96  |     | .10 |     |     |     | .01  |      |     |     | 6.82 |       |
| Grove City        | Beaver         | .43          | 1.02 |      | .57 | .04 | .02 |     |   |     |     |     | .35 |      | 1.16 | .15  | .03 |     |      | .87  | .80 | .64  |     | .28 |     |     |     | T.   |      |     |     | 6.36 |       |
| Herrs Isl. Dam\|\|\| | Ohio           | .38          | .67  | T.   | .25 |     | .52 |     |   |     |     |     |     | .54  | .61  | .12  | T.  |     |      | 1.26 | .10 | .60  | T.  |     | T.  | .08 |     |      | .53  |     |     | 5.66 |       |
| Ingram            | Ohio           | .62          | .41  | .05  | .31 | .47 | .05 |     |   |     |     |     | .43 | .20  | .65  | .07  |     |     | T.   | 1.34 |     | .67  |     | .07 |     |     |     | .08  | .70  |     |     | 6.12 |       |
| Irwin             | Youghiogheny   | .64          | .09  | .02  | .08 | .49 | .04 |     |   |     |     |     | T.  | .24  | .30  | .06  |     |     | .01  | .36  | T.  | .64  |     | .12 |     |     |     | 1.52 | .08  |     |     | 3.91 |       |
| Johnstown         | Conemaugh      | .53          | .28  | .02  | .02 | .60 | .12 |     |   |     |     |     | .47 | .19  | .73  | .05  | .29 |     | .05  | .50  | .02 | .42  |     | .19 |     |     |     | .17  | .65  |     |     | 6.08 |       |
| Kregar\|\|\| | Youghiogheny   | 1.00         | *    | .11  | .59 |     |     |     |   |     |     |     | .26 | .24  | .17  | .03  | .19 |     | .42  | .35  | .36 | .11  |     | T.  | .11 |     | T.  |      | .80  | .05 |     | 4.79 |       |
| Lock No. 4\|\|\| | Monongahela    | .41          | 1.00 | .01  | .08 |     | .40 |     |   |     |     |     |     | .44  | .38  | .49  | .04 | .19 |      | .48  | .20 | .63  | .06 |     | T.  | .04 |     | .04  | 1.37 | .09 |     | 6.85 |       |
| Lycippus          | Conemaugh      | .50          | .60  |      |     | .60 | .41 |     |   |     |     |     | .49 | .14  | .32  |      | .37 |     |      | .97  | T.  | .62  |     | .37 |     |     |     | 2.53 | .44  |     |     | 8.36 |       |
| Meadville         | Allegheny      | .68          | 1.96 | .06  | .37 | .03 | .15 |     |   |     |     |     | .65 |      | 1.35 | .28  | .08 |     |      | .93  |     | .84  |     | .15 |     |     |     | .56  | .77  |     |     | 7.48 |       |
| Mount Lebanon     | Ohio           | 1.00         | .20  | .06  | .23 | .51 | .09 |     |   |     |     |     | .03 | .40  | .43  | .16  |     |     |      | 2.07 |     | .82  |     | .08 |     |     |     |      | .07  | .07 | .01 | 7.57 |       |
| New Castle\|\|\| | Beaver         | .06          | 2.36 | .02  | .65 |     | .17 |     |   |     | .01 |     | .68 | .22  | .32  | .50  | .39 |     |      | .88  | .02 | .80  | .04 | .28 | .02 |     |     |      | .25  |     |     | 3.84 |       |
| Newell            | Monongahela    | .90          |      |      | .11 | .43 |     |     |   |     |     |     |     | .18  | .25  | .06  | .06 |     |      | .62  |     | .66  |     | .03 |     |     |     |      | .73  | T.  |     | 6.80 |       |
| Parkers Landing\|\|\| | Allegheny      | .26          | .94  | .05  | .68 |     | .27 |     |   |     |     |     | .45 | .18  | .40  | 1.15 | .05 |     |      | .63  | .08 | .35  | .08 | .40 | T.  |     |     | .10  | .73  |     |     | 6.20 |       |
| Pennline\|\|\|†† | Beaver         | .96          | 1.24 | .43  | .28 |     |     |     |   |     |     |     | .17 | .17  | .57  | .39  | .14 |     |      | .62  | .03 | .65  |     | .15 |     |     |     | .40  |      |     |     | 5.88 |       |
| Pittsburgh**      | Ohio           | .91          | .06  | .13  | .09 | .51 |     |     |   |     |     |     | .54 | .42  | .15  | .04  | T.  |     | 1.02 | .38  | .35 | .28  |     | T.  |     |     | .05 | .41  |      |     | T.  | 5.38 |       |
| Ridgway           | Allegheny      | .22          | .28  |      | .54 | .08 | .15 |     |   |     |     |     |     |      | 1.15 | .21  |     |     |      | .62  |     | .67  |     | .09 |     |     |     | .15  | .20  |     |     | 4.36 |       |
| Saltsburg\|\|\| | Conemaugh      | .24          | 1.02 | .17  |     | .54 |     |     |   |     |     |     | .28 | .38  | .32  | .24  |     |     |      | 1.30 | .14 | .72  | .06 | .03 | .25 |     |     | T.   | .97  | .30 | T.  | 6.96 |       |
| Sharon\|\|\| | Beaver         | T.           | 1.48 | T.   | .28 |     | .12 |     |   |     |     |     | .04 | .16  | .37  | .73  | .20 |     |      | .76  |     | .89  | .02 | .65 |     |     |     |      | .50  |     | T.  | 5.60 |       |
| Somerseset        | Youghiogheny   | .10          | .64  | .05  |     | .43 | .10 |     |   |     |     |     | .10 | .22  | .19  | .22  | .10 |     |      | .60  |     | .43  |     | .08 |     |     | .10 | .70  | 1.25 | .10 |     | 5.41 |       |
| Springdale\|\|\| | Allegheny      | .37          | .63  |      | .38 | .01 | .53 |     |   |     |     |     |     | .45  | .58  | .18  | .05 | T.  |      | 1.18 | .12 | .65  | .03 | .03 | .03 |     |     | .06  | .56  | .01 | .03 | 5.88 |       |
| Uniontown         | Monongahela    | .75          | .27  | .04  | .15 | .46 | .03 |     |   |     |     |     | .31 | .43  | .03  | .03  | .02 |     | T.   | .99  | .02 | .41  |     | .10 |     |     |     | T.   | .31  |     |     | 4.35 |       |
| Unity Reservoir†† | Youghiogheny   | .64          | .25  | .05  | .20 | .40 | .12 |     |   |     |     |     | .28 | .54  | .36  | .08  | .10 |     | T.   | .96  |     | .82  |     | .43 |     |     |     | .36  | .58  |     |     | 6.17 |       |
| Vandergrift†      | Conemaugh      | .87          | .11  | .12  | .14 | .48 |     |     |   |     |     |     | .26 | .14  | .52  |      |     |     | .65  | .38  | .34 | .37  |     | .09 |     |     |     | .10  | .17  |     | .05 | 4.79 |       |
| Warren            | Allegheny      | .50          | .50  | .23  | .46 | .18 | .14 |     |   |     |     |     | .43 |      | .50  | .54  | .22 |     |      | .73  |     | .59  |     | .14 |     |     |     | .80  | .40  |     |     | 6.36 |       |
| Washington†       | Ohio           |              |      |      |     |     |     |     |   |     |     |     |     |      |      |      |     |     |      |      |     |      |     |     |     |     |     |      |      |     |     |      |       |
| Westford\|\|\| | Beaver         | .17          | 1.52 | .12  | .40 |     | .17 |     |   |     |     | .13 | .57 | .68  | .43  | .09  | .04 |     | .70  |      | .90 |      | .18 |     |     |     |     | .14  | 1.02 |     |     | 6.10 |       |
| West Newton\|\|\| | Youghiogheny   |              | .32  | 1.01 |     | .10 |     | .49 |   |     |     |     |     | .51  | .38  | .27  | .10 | .36 |      |      | .44 | .18  | .66 | .04 |     | .05 |     |      |      |     |     | 6.07 |       |
| Zellenople\|\|\| | Ohio           |              |      | 1.05 |     |     |     |     |   | .53 |     |     |     |      | .89  |      | .97 |     |      |      | .30 | 1.13 |     | .07 |     |     |     | .40  |      |     |     | 5.84 |       |
| Lake Drainage.    |                |              |      |      |     |     |     |     |   |     |     |     |     |      |      |      |     |     |      |      |     |      |     |     |     |     |     |      |      |     |     |      |       |
| Erie***           | Lake Erie      | T.           | 1.37 | T.   | T.  | .07 | .25 |     |   |     |     | .05 | .38 |      | .78  | .04  | .05 |     |      | .29  | .28 |      | T.  |     | .09 |     |     | T.   | .24  | T.  |     | 3.89 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Blosserville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.



## Daily Temperatures for May, 1929

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|
| Allentown.....    | Maximum | 71 | 71 | 54 | 62 | 67 | 65 | 62 | 65 | 63 | 69 | 84 | 71 | 63 | 85 | 81 | 67 | 79 | 80 | 60 | 54 | 67 | 72 | 71 | 75 | 78 | 83 | 88 | 86 | 87 | 94   | 72.3 |      |      |
|                   | Minimum | 52 | 48 | 40 | 43 | 41 | 44 | 39 | 39 | 35 | 39 | 43 | 52 | 53 | 44 | 57 | 38 | 43 | 51 | 42 | 44 | 44 | 38 | 43 | 49 | 46 | 50 | 57 | 67 | 67 | 68   | 47.2 |      |      |
| Altoona.....      | Maximum | 78 | 74 | 63 | 58 | 56 | 59 | 59 | 58 | 62 | 70 | 77 | 69 | 62 | 76 | 73 | 64 | 78 | 67 | 55 | 52 | 65 | 76 | 72 | 73 | 78 | 85 | 84 | 77 | 88 | 85   | 69.2 |      |      |
|                   | Minimum | 49 | 50 | 35 | 33 | 41 | 36 | 42 | 30 | 40 | 31 | 40 | 50 | 51 | 50 | 53 | 47 | 32 | 41 | 41 | 33 | 44 | 35 | 36 | 49 | 36 | 42 | 56 | 59 | 63 | 63   | 65   | 44.3 |      |
| Beaver Dam.....   | Maximum | 77 | 77 | 62 | 58 | 60 | 62 | 60 | 57 | 63 | 79 | 78 | 72 | 73 | 78 | 77 | 71 | 76 | 73 | 61 | 61 | 66 | 75 | 73 | 71 | 84 | 88 | 87 | 85 | 88 | 88   | 72.3 |      |      |
|                   | Minimum | 49 | 52 | 35 | 38 | 42 | 38 | 39 | 34 | 43 | 31 | 39 | 65 | 52 | 53 | 63 | 47 | 32 | 41 | 45 | 34 | 47 | 37 | 38 | 58 | 39 | 46 | 56 | 63 | 66 | 62   | 65   | 46.7 |      |
| Bellefonte.....   | Maximum | 76 | 68 | 53 | 56 | 58 | 56 | 59 | 59 | 58 | 63 | 68 | 77 | 69 | 62 | 76 | 71 | 65 | 78 | 59 | 56 | 66 | 72 | 66 | 72 | 82 | 83 | 83 | 85 | 94 | 88   | 68.6 |      |      |
|                   | Minimum | 50 | 47 | 37 | 38 | 42 | 33 | 40 | 31 | 35 | 28 | 46 | 49 | 47 | 51 | 53 | 39 | 30 | 41 | 43 | 31 | 41 | 32 | 33 | 49 | 36 | 40 | 52 | 61 | 62 | 60   | 59   | 42.9 |      |
| Brookville.....   | Maximum | 77 | 69 | 44 | 59 | 60 | 56 | 59 | 59 | 55 | 69 | 77 | 76 | 66 | 62 | 74 | 68 | 69 | 77 | 53 | 60 | 57 | 67 | 72 | 68 | 72 | 82 | 88 | 91 | 85 | 93   | 68.8 |      |      |
|                   | Minimum | 37 | 42 | 33 | 33 | 33 | 29 | 27 | 28 | 23 | 30 | 46 | 45 | 49 | 49 | 28 | 25 | 32 | 33 | 27 | 30 | 29 | 32 | 33 | 30 | 34 | 49 | 54 | 54 | 48 | 35.6 |      |      |      |
| Butler.....       | Maximum | 78 | 64 | 61 | 59 | 59 | 58 | 60 | 57 | 62 | 79 | 76 | 75 | 69 | 74 | 78 | 73 | 79 | 72 | 62 | 62 | 65 | 74 | 75 | 72 | 84 | 91 | 86 | 89 | 87 | 84   | 71.7 |      |      |
|                   | Minimum | 51 | 52 | 34 | 36 | 41 | 35 | 42 | 32 | 42 | 26 | 38 | 55 | 57 | 53 | 62 | 46 | 29 | 38 | 35 | 30 | 46 | 35 | 33 | 58 | 34 | 43 | 56 | 60 | 66 | 66   | 65   | 45.0 |      |
| Carlisle.....     | Maximum | 78 | 73 | 68 | 62 | 67 | 65 | 66 | 68 | 65 | 66 | 70 | 86 | 70 | 66 | 86 | 82 | 68 | 85 | 82 | 58 | 55 | 72 | 74 | 74 | 76 | 84 | 86 | 84 | 85 | 92   | 93   | 74.4 |      |
|                   | Minimum | 47 | 53 | 43 | 32 | 46 | 37 | 38 | 48 | 45 | 31 | 36 | 40 | 50 | 53 | 55 | 55 | 60 | 42 | 39 | 45 | 38 | 35 | 48 | 50 | 46 | 54 | 60 | 63 | 62 | 68   | 47.2 |      |      |
| Catawissa.....    | Maximum | 78 | 64 | 53 | 63 | 66 | 62 | 66 | 65 | 66 | 68 | 74 | 86 | 72 | 62 | 84 | 77 | 72 | 84 | 57 | 64 | 55 | 71 | 76 | 69 | 74 | 84 | 87 | 90 | 91 | 95   | 95   | 73.2 |      |
|                   | Minimum | 49 | 41 | 41 | 35 | 46 | 35 | 47 | 30 | 41 | 29 | 33 | 47 | 48 | 50 | 53 | 53 | 40 | 42 | 37 | 43 | 35 | 33 | 46 | 40 | 41 | 51 | 62 | 63 | 62 | 65   | 44.2 |      |      |
| Chambersburg..... | Maximum | 75 | 72 | 68 | 62 | 65 | 63 | 63 | 64 | 65 | 63 | 69 | 84 | 73 | 66 | 82 | 79 | 64 | 79 | 77 | 60 | 57 | 67 | 73 | 74 | 74 | 80 | 83 | 80 | 78 | 85   | 89   | 72.0 |      |
|                   | Minimum | 48 | 53 | 42 | 35 | 46 | 36 | 48 | 33 | 44 | 34 | 39 | 46 | 53 | 52 | 56 | 55 | 42 | 56 | 41 | 45 | 34 | 37 | 50 | 44 | 48 | 60 | 65 | 66 | 63 | 63   | 46.7 |      |      |
| Clearfield.....   | Maximum | 79 | 74 | 59 | 55 | 62 | 57 | 62 | 61 | 62 | 69 | 81 | 76 | 62 | 75 | 80 | 77 | 76 | 79 | 70 | 58 | 59 | 69 | 76 | 72 | 77 | 87 | 90 | 89 | 86 | 92   | 89   | 72.9 |      |
|                   | Minimum | 53 | 55 | 33 | 37 | 40 | 36 | 41 | 29 | 39 | 28 | 39 | 64 | 54 | 52 | 62 | 50 | 29 | 42 | 45 | 39 | 46 | 32 | 39 | 60 | 40 | 48 | 60 | 65 | 66 | 63   | 63   | 46.7 |      |
| Coatesville.....  | Maximum | 81 | 78 | 65 | 60 | 61 | 58 | 60 | 63 | 63 | 78 | 76 | 79 | 60 | 75 | 70 | 65 | 80 | 79 | 75 | 70 | 58 | 75 | 68 | 70 | 72 | 86 | 90 | 90 | 90 | 96   | 93   | 73.7 |      |
|                   | Minimum | 38 | 48 | 35 | 34 | 42 | 30 | 30 | 30 | 30 | 37 | 45 | 27 | 54 | 53 | 58 | 51 | 43 | 28 | 48 | 35 | 30 | 43 | 30 | 40 | 42 | 30 | 49 | 48 | 60 | 42   | 63   | 60   | 42.0 |
| Coatesville.....  | Maximum | 65 | 71 | 68 | 64 | 65 | 69 | 65 | 61 | 61 | 63 | 68 | 83 | 69 | 61 | 82 | 82 | 65 | 78 | 81 | 58 | 54 | 66 | 73 | 76 | 74 | 79 | 83 | 87 | 85 | 86   | 91   | 72.0 |      |
|                   | Minimum | 47 | 54 | 46 | 36 | 46 | 36 | 49 | 37 | 42 | 31 | 34 | 47 | 50 | 55 | 55 | 50 | 38 | 45 | 53 | 42 | 45 | 47 | 34 | 50 | 51 | 40 | 51 | 61 | 68 | 66   | 68   | 47.5 |      |
| Corry.....        | Maximum | 77 | 69 | 59 | 56 | 56 | 57 | 53 | 53 | 53 | 63 | 78 | 73 | 67 | 62 | 69 | 66 | 69 | 72 | 56 | 63 | 63 | 65 | 72 | 64 | 68 | 82 | 87 | 86 | 86 | 91   | 82   | 68.3 |      |
|                   | Minimum | 51 | 45 | 32 | 31 | 39 | 36 | 38 | 30 | 33 | 29 | 38 | 49 | 45 | 50 | 53 | 38 | 28 | 38 | 38 | 29 | 44 | 30 | 33 | 54 | 33 | 36 | 54 | 64 | 64 | 64   | 61   | 41.8 |      |
| Emporium.....     | Maximum | 76 | 68 | 58 | 59 | 58 | 56 | 58 | 59 | 55 | 61 | 72 | 77 | 68 | 61 | 72 | 68 | 68 | 76 | 65 | 59 | 56 | 64 | 73 | 68 | 70 | 80 | 84 | 84 | 84 | 84   | 84   | 68.7 |      |
|                   | Minimum | 45 | 48 | 38 | 36 | 43 | 32 | 42 | 29 | 37 | 25 | 32 | 52 | 45 | 52 | 55 | 41 | 30 | 35 | 43 | 31 | 43 | 33 | 31 | 55 | 36 | 38 | 47 | 60 | 64 | 62   | 62   | 42.6 |      |
| Erie.....         | Maximum | 72 | 56 | 48 | 54 | 53 | 49 | 48 | 52 | 54 | 79 | 72 | 57 | 68 | 72 | 71 | 62 | 66 | 53 | 55 | 58 | 59 | 73 | 67 | 58 | 71 | 85 | 83 | 80 | 87 | 78   | 64.5 |      |      |
|                   | Minimum | 41 | 41 | 37 | 36 | 42 | 43 | 43 | 42 | 42 | 36 | 47 | 51 | 49 | 54 | 59 | 42 | 40 | 50 | 39 | 35 | 44 | 44 | 46 | 50 | 44 | 48 | 58 | 66 | 68 | 68   | 62   | 47.3 |      |
| Franklin.....     | Maximum | 76 | 66 | 47 | 58 | 58 | 56 | 56 | 54 | 56 | 67 | 78 | 72 | 69 | 65 | 73 | 56 | 69 | 72 | 46 | 65 | 63 | 67 | 73 | 66 | 73 | 83 | 86 | 87 | 88 | 92   | 82   | 68.4 |      |
|                   | Minimum | 32 | 47 | 34 | 35 | 40 | 34 | 38 | 34 | 39 | 29 | 33 | 52 | 48 | 56 | 54 | 55 | 30 | 38 | 45 | 31 | 34 | 35 | 34 | 42 | 38 | 41 | 54 | 59 | 64 | 59   | 63   | 42.6 |      |
| Freeland.....     | Maximum | 73 | 67 | 62 | 55 | 60 | 60 | 61 | 58 | 57 | 60 | 65 | 80 | 65 | 60 | 77 | 74 | 66 | 78 | 70 | 57 | 50 | 61 | 68 | 64 | 67 | 78 | 78 | 86 | 83 | 89   | 87   | 68.3 |      |
|                   | Minimum | 46 | 50 | 38 | 32 | 47 | 42 | 44 | 31 | 38 | 34 | 44 | 49 | 45 | 49 | 48 | 62 | 32 | 44 | 40 | 40 | 40 | 39 | 42 | 49 | 42 | 47 | 57 | 63 | 64 | 65   | 66   | 46.1 |      |
| Gettysburg.....   | Maximum | 77 | 72 | 67 | 61 | 67 | 65 | 64 | 64 | 65 | 65 | 70 | 87 | 70 | 68 | 84 | 80 | 68 | 81 | 79 | 60 | 56 | 68 | 74 | 76 | 75 | 81 | 85 | 84 | 82 | 86   | 91   | 73.3 |      |
|                   | Minimum | 53 | 53 | 43 | 39 | 47 | 41 | 51 | 38 | 45 | 39 | 43 | 50 | 53 | 52 | 60 | 59 | 35 | 46 | 57 | 42 | 45 | 40 | 40 | 54 | 46 | 51 | 56 | 64 | 66 | 67   | 67   | 49.7 |      |
| Greensburg.....   | Maximum | 75 | 70 | 58 | 54 | 60 | 55 | 60 | 59 | 61 | 67 | 80 | 82 | 72 | 75 | 78 | 72 | 78 | 68 | 58 | 56 | 67 | 75 | 69 | 74 | 85 | 89 | 87 | 83 | 80 | 83   | 80   | 71.6 |      |
|                   | Minimum | 54 | 53 | 35 | 37 | 42 | 38 | 43 | 31 | 40 | 31 | 36 | 50 | 53 | 55 | 61 | 49 | 81 | 47 | 46 | 38 | 46 | 36 | 37 | 56 | 40 | 48 | 60 | 65 | 65 | 64   | 62   | 45.0 |      |
| Grove City.....   | Maximum | 76 | 73 | 63 | 63 | 61 | 54 | 60 | 55 | 54 | 61 | 81 | 81 | 65 | 66 | 73 | 72 | 67 | 80 | 75 | 70 | 77 | 72 | 78 | 82 | 66 | 89 | 84 | 84 | 82 | 86   | 81   | 72.2 |      |
|                   | Minimum | 49 | 49 | 32 | 34 | 35 | 35 | 39 | 42 | 40 | 42 | 52 | 51 | 48 | 51 | 62 | 42 | 40 | 38 | 31 | 44 | 37 | 39 | 40 | 36 | 45 | 59 | 63 | 66 | 58 | 66   | 45.0 |      |      |
| Hamburg.....      | Maximum | 71 | 69 | 69 | 60 | 64 | 63 | 64 | 64 | 63 | 63 | 67 | 83 | 76 | 70 | 81 | 80 | 75 | 80 | 78 | 57 | 56 | 67 | 71 | 69 | 73 | 77 | 82 | 84 | 85 | 89   | 90   | 72.3 |      |
|                   | Minimum | 44 | 48 | 35 | 31 | 45 | 34 | 47 | 38 | 43 | 31 | 33 | 44 | 50 | 52 | 53 | 54 | 36 | 36 | 53 | 40 | 43 | 45 | 33 | 48 | 43 | 41 | 50 | 64 | 69 | 69   | 72   | 45.9 |      |
| Harrisburg.....   | Maximum | 70 | 71 | 57 | 60 | 66 | 64 | 64 | 62 | 62 | 68 | 83 | 68 | 62 | 81 | 78 | 64 | 80 | 70 | 57 | 54 | 67 | 72 | 73 | 75 | 77 | 83 | 85 | 83 | 86 | 91   | 70.8 |      |      |
|                   | Minimum | 52 | 56 | 42 | 39 | 50 | 45 | 49 | 41 | 46 | 38 | 47 | 53 | 55 | 57 | 47 | 42 | 43 | 46 | 42 | 45 | 43 | 46 | 56 | 53 | 53 | 60 | 66 | 68 | 67 | 68   | 50.8 |      |      |
| Hawley.....       | Maximum | 73 | 72 | 68 | 58 | 62 | 61 | 61 | 58 | 59 | 63 | 67 | 81 | 66 | 64 | 78 | 78 | 71 | 78 | 77 | 59 | 56 | 63 | 70 | 68 | 66 | 77 | 83 | 89 | 85 | 90   | 91   | 70.7 |      |
|                   | Minimum | 36 | 46 | 33 | 34 | 44 | 31 | 45 | 31 | 35 | 26 | 29 | 50 | 46 | 42 | 49 | 50 | 32 | 33 | 50 | 41 | 42 | 39 | 29 | 52 | 37 | 35 | 42 | 70 | 61 | 62   | 60   | 42.6 |      |
| Huntingdon.....   | Maximum | 79 | 79 | 67 | 60 | 62 | 63 | 63 | 63 | 66 | 74 | 82 | 69 | 66 | 81 | 79 | 69 | 84 | 74 | 58 | 56 | 70 | 77 | 72 | 72 | 72 | 83 | 89 | 85 | 86 | 93   | 91   | 73.4 |      |
|                   | Minimum | 49 | 50 | 41 | 37 | 44 | 34 | 46 | 31 | 42 | 34 | 38 | 48 | 50 | 52 | 54 | 50 | 40 | 54 | 34 | 45 | 35 | 32 | 52 | 52 | 37 | 54 | 60 | 63 | 63 | 60   | 45.3 |      |      |
| Johnstown.....    | Maximum | 80 | 74 | 58 | 56 | 63 | 55 | 63 | 56 | 64 | 72 | 78 | 82 | 65 | 70 | 80 | 73 | 84 | 65 | 63 | 54 | 64 | 80 | 68 | 74 | 88 | 91 | 88 | 81 | 94 | 90   | 72.4 |      |      |
|                   | Minimum | 49 | 52 | 37 | 35 | 45 | 37 | 44 | 35 | 43 | 34 | 45 | 59 | 54 | 52 | 59 | 46 | 34 | 43 | 47 | 39 | 46 | 42 | 36 | 52 | 48 | 46 | 58 | 64 | 64 | 64   | 64   | 47   |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV.

JUNE, 1929.

No. 6

## GENERAL SUMMARY.

June began with temperatures considerably below the normal and frost occurred at many places on the morning of the 3d. There was little rain until the 3th when moderate showers were fairly general. During the second decade the temperatures rose steadily, reaching a maximum at most places on the 18th or 19th when the heat broke up with severe thunderstorms in nearly all parts of the State. Many buildings were fired by lightning, and four deaths by lightning were reported. Considerable damage was done in these storms by wind and hail. The last decade was marked by more than the usual number of severe local storms. On the 24th a cloudburst in Indiana County did about \$40,000 damage over an area one-and-one-half by six miles. On the 28th wind and heavy rains in Kane and vicinity did damage that was estimated at upwards of \$150,000, with no evidence of tornadic action. On the same date a tornado in southeastern Fayette County passed through a sparsely settled region wrecking two houses and a store building with damage estimated at \$25,000. It also wrecked many trees and did some damage to crops. Storms of lesser intensity were reported from many places in the State on these dates. The rainfall was far below the normal up to the 20th, after which frequent heavy showers nearly made up the deficiency. Crop growth was slow during the first decade on account of low temperatures, but speeded up somewhat during the second decade despite the shortage in moisture. At the close of the month most crops were seasonably advanced. Wheat had ripened very rapidly, and was practically ready for harvest which usually begins from July 7th to 10th. The crop appeared to be better than the average, the straw being heavy and the heads large.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 86 stations, was 67.8°, which is 0.4° colder than the July normal. The highest mean, 73.5°, was recorded at Philadelphia-Germantown, and the lowest, 60.2°, was reported from Ridgway. The highest temperature for the month was 98°, recorded at Clearfield and Lock Haven on the 19th, at Phoenixville on the 19th and 20th, and at George School on the 21st. The lowest for the month was 28°, at Ridgway on the 3d. The greatest daily range of temperature was 52°, at Mauch Chunk on the 11th.

## PRECIPITATION.

The average precipitation for the State as shown from reports of 134 stations, was 3.56 inches, which is a deficiency of 0.54 inch as compared with the June normal. The greatest monthly amount was 6.77 inches at Pine Grove, while the least was 1.10 inches at Lloyd. The greatest amount recorded in any 24 consecutive hours was 3.35 inches at Cloe on the 23d.

## SUNSHINE, HUMIDITY AND WINDS

| Stations        | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-----------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                 | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                 |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie...         | 306.3                   | 455.1                    | 67                     | 70               | 66       | 63      | 6,850                    | 9.5                         | 40        | sw.       |
| Harrisburg...   | 336.2                   | 448.9                    | 75                     | 70               | 51       | 61      | 3,906                    | 5.4                         | 33        | nw.       |
| Philadelphia... | 275.4                   | 448.9                    | 61                     | 74               | 59       | 61      | 7,904                    | 11.0                        | 32        | n.        |
| Pittsburgh...   | 354.9                   | 452.0                    | 79                     | 72               | 49       | 54      | 5,671                    | 7.9                         | 33        | sw.       |
| Reading...      | 279.8                   | 448.9                    | 62                     | 67               | 49       | 60      | 3,636                    | 5.0                         | 19        | n.        |
| Scranton...     | 302.3                   | 452.0                    | 67                     | 71               | 51       | 60      | 3,961                    | 5.5                         | 25        | w.        |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR JUNE

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 68.4        | 100     | 30     | 3.04          | 6.90     | 1.08  | .....       | .....         | .....  | 9                      |
| 1889..... | 66.7        | 95      | 33     | 5.43          | 10.04    | 2.71  | .....       | .....         | .....  | 15                     |
| 1890..... | 70.1        | 97      | 33     | 3.42          | 5.74     | 1.30  | 12          | 11            | 7      | 9                      |
| 1891..... | 68.2        | 100     | 30     | 4.50          | 9.30     | 1.22  | 14          | 8             | 8      | 11                     |
| 1892..... | 71.8        | 99      | 40     | 5.64          | 10.55    | 1.83  | 9           | 11            | 10     | 13                     |
| 1893..... | 69.8        | 100     | 38     | 3.12          | 6.50     | 1.20  | 10          | 11            | 9      | 9                      |
| 1894..... | 69.6        | 102     | 30     | 2.57          | 5.31     | 0.61  | 13          | 12            | 5      | 10                     |
| 1895..... | 71.4        | 104     | 32     | 3.50          | 9.21     | 0.69  | 13          | 10            | 7      | 9                      |
| 1896..... | 67.4        | 98      | 32     | 4.64          | 9.11     | 1.89  | 10          | 11            | 9      | 11                     |
| 1897..... | 64.8        | 96      | 28     | 3.38          | 6.42     | 1.11  | 11          | 11            | 8      | 11                     |
| 1898..... | 69.6        | 100     | 33     | 2.79          | 6.96     | 0.56  | 14          | 11            | 5      | 9                      |
| 1899..... | 69.9        | 101     | 32     | 3.51          | 5.97     | 0.65  | 13          | 11            | 6      | 9                      |
| 1900..... | 69.9        | 97      | 35     | 3.60          | 10.29    | 1.35  | 11          | 12            | 7      | 10                     |
| 1901..... | 69.1        | 103     | 32     | 3.47          | 7.61     | 0.88  | 12          | 11            | 7      | 10                     |
| 1902..... | 66.0        | 97      | 32     | 5.97          | 8.93     | 3.35  | 11          | 12            | 7      | 13                     |
| 1903..... | 63.5        | 90      | 34     | 6.53          | 11.76    | 3.74  | 7           | 10            | 13     | 15                     |
| 1904..... | 67.9        | 96      | 32     | 4.06          | 6.67     | 1.62  | 12          | 10            | 8      | 13                     |
| 1905..... | 68.0        | 99      | 30     | 4.39          | 8.35     | 1.77  | 11          | 10            | 9      | 13                     |
| 1906..... | 69.3        | 97      | 28     | 5.43          | 10.29    | 1.40  | 11          | 12            | 7      | 13                     |
| 1907..... | 63.6        | 98      | 30     | 4.99          | 8.55     | 2.79  | 11          | 9             | 10     | 12                     |
| 1908..... | 63.8        | 102     | 28     | 2.36          | 4.61     | 0.58  | 19          | 9             | 2      | 7                      |
| 1909..... | 68.8        | 96      | 34     | 4.48          | 8.96     | 1.89  | 12          | 9             | 9      | 13                     |
| 1910..... | 65.4        | 95      | 32     | 4.31          | 8.68     | 1.83  | 12          | 8             | 10     | 11                     |
| 1911..... | 68.3        | 99      | 38     | 4.71          | 10.11    | 2.13  | 12          | 10            | 8      | 12                     |
| 1912..... | 65.6        | 96      | 29     | 3.36          | 8.58     | 0.79  | 13          | 9             | 8      | 8                      |
| 1913..... | 68.2        | 99      | 20     | 2.26          | 7.61     | 0.66  | 19          | 7             | 4      | 7                      |
| 1914..... | 68.6        | 101     | 25     | 3.71          | 7.05     | 1.17  | 16          | 8             | 6      | 9                      |
| 1915..... | 69.6        | 89      | 48     | 3.30          | 8.04     | 0.74  | 8           | 14            | 8      | 11                     |
| 1916..... | 63.7        | 89      | 28     | 6.14          | 12.45    | 2.83  | 11          | 10            | 9      | 15                     |
| 1917..... | 68.8        | 92      | 32     | 5.38          | 9.85     | 2.25  | 12          | 11            | 7      | 14                     |
| 1918..... | 66.0        | 98      | 29     | 3.42          | 2.65     | 0.44  | 13          | 11            | 6      | 10                     |
| 1919..... | 71.2        | 102     | 32     | 3.90          | 9.17     | 1.74  | 16          | 9             | 5      | 10                     |
| 1920..... | 67.0        | 99      | 32     | 4.97          | 8.37     | 2.25  | 12          | 11            | 7      | 13                     |
| 1921..... | 70.6        | 101     | 26     | 3.12          | 9.86     | 0.70  | 17          | 9             | 4      | 8                      |
| 1922..... | 69.5        | 96      | 30     | 5.11          | 12.46    | 1.78  | 11          | 11            | 8      | 13                     |
| 1923..... | 70.9        | 103     | 32     | 2.78          | 7.99     | 0.41  | 16          | 9             | 5      | 9                      |
| 1924..... | 65.8        | 98      | 26     | 5.57          | 9.75     | 2.23  | 11          | 11            | 8      | 15                     |
| 1925..... | 71.9        | 104     | 29     | 3.04          | 7.02     | 0.62  | 16          | 11            | 3      | 9                      |
| 1926..... | 64.1        | 94      | 23     | 3.63          | 6.56     | 1.20  | 13          | 10            | 7      | 12                     |
| 1927..... | 63.8        | 99      | 25     | 3.72          | 6.78     | 1.59  | 15          | 8             | 7      | 9                      |
| 1928..... | 65.5        | 93      | 30     | 7.96          | 13.14    | 3.96  | 9           | 9             | 12     | 17                     |
| 1929..... | 67.8        | 98      | 28     | 3.56          | 6.77     | 1.10  | 15          | 10            | 5      | 10                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 2.5        | 3.7           | 1    | 1.9          | 24   | 18          |
| Phillipsburg..... | Delaware.....     | 2.3        | 4.0           | 1    | 1.2          | 23   | 22          |
| Mauch Chunk.....  | Lehigh.....       | 2.4        | 1             | 1    | 3.2          | 10   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 3.3        | 7.3           | 1    | 2.6          | 24   | 20          |
| Williamsport..... | Susquehanna.....  | 2.3        | 5.2           | 1    | 1.0          | 21   | 20          |
| Harrisburg.....   | Susquehanna.....  | 4.2        | 5.7           | 1    | 3.7          | 18   | 17          |
| Greensboro.....   | Allegheny.....    | 11.3       | 16.4          | 1    | 10.4         | 17   | 22          |
| West Newton.....  | Youghiogheny..... | 1.5        | 3.2           | 1    | 0.7          | 19   | 20          |
| Lock No. 4.....   | Monongahela.....  | 13.8       | 18.7          | 1    | 12.6         | 20   | 31          |
| Pittsburgh.....   | Ohio.....         | 11.1       | 14.8          | 1    | 10.0         | 22   | 25          |
| Beaver Dam.....   | Ohio.....         | 8.2        | 13.1          | 1    | 6.7          | 24   | 30          |



## Climatological Data for June, 1929

| Stations            | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|---------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                     |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage.  |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown           | Lehigh       | 254             | 17                      | 69.9                         | .....                     | 95      | 19    | 41     | 4     | 39                       | 3.29  | -0.15                     | 1.24                 | 0                         | 11                           | 19    | 8                            | 3         | sw.        | John A. Frick.              |
| Altoona             | Blair        | 1,615           | 42                      | 66.3                         | +0.1                      | 92      | 19    | 33     | 3     | 38                       | 2.60  | -1.32                     | 0.90                 | 0                         | 8                            | 14    | 10                           | 6         | w.         | F. E. Rooney.               |
| Arendtsville        | Adams        | 700             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      | Dr. S. W. Frost.            |
| Bellefonte          | Center       | 1,050           | 24                      | 64.9                         | .....                     | 92      | 18    | 32     | 3     | 41                       | 2.68  | -2.32                     | 1.41                 | 0                         | 6                            | 8     | 13                           | 9         | w.         | U. S. Weather Bureau.       |
| Bethlehem           | Northampton  | 364             | 45                      | 71.6                         | +1.8                      | 96      | 18    | 44     | 3     | 38                       | 3.90  | -0.27                     | 1.20                 | 0                         | 10                           | 21    | 4                            | 5         | sw.        | Lehigh University.          |
| Carlisle            | Cumberland   | 467             | 62                      | 71.0                         | +0.1                      | 97      | 18    | 37     | 4     | 41                       | 6.64  | +2.80                     | 2.67                 | 0                         | 10                           | 24    | 4                            | 2         | nw.        | Prof. C. E. Miller.         |
| Catawissa           | Columbia     | 520             | 32                      | 69.1                         | +1.4                      | 97      | 18    | 34     | 4     | 48                       | 2.88  | -1.01                     | 0.80                 | 0                         | 11                           | 20    | 9                            | 1         | .....      | H. H. Yetter.               |
| Center Hall         | Center       | 1,272           | 33                      | 66.4                         | +0.3                      | 95      | 19    | 33     | 3     | 41                       | 1.99  | -2.01                     | 0.76                 | 0                         | 7                            | 19    | 4                            | 7         | .....      | S. W. Smith.                |
| Chambersburg        | Franklin     | 580             | 29                      | 68.8                         | -0.6                      | 95      | 19    | 37     | 4     | 38                       | 3.14  | -0.87                     | 1.13                 | 0                         | 8                            | 15    | 14                           | 1         | sw.        | William B. Spear.           |
| Clearfield          | Clearfield   | 1,120           | 19                      | 67.5                         | +0.2                      | 98      | 19    | 31     | 3     | 42                       | 3.49  | -1.57                     | 1.33                 | 0                         | 10                           | 14    | 12                           | 2         | w.         | E. W. Hess.                 |
| Coatesville         | Chester      | 380             | 41                      | 69.9                         | 0.0                       | 94      | 19    | 39     | 4     | 38                       | 2.52  | -1.52                     | 0.98                 | 0                         | 7                            | 14    | 12                           | 4         | s.         | Prof. W. T. Gordon.         |
| Colebrook           | Lebanon      | 560             | 19                      | 67.4                         | -1.7                      | 93      | 19    | 37     | 4     | 40                       | 5.28  | +1.28                     | 1.04                 | 0                         | 11                           | 22    | 4                            | 4         | w.         | Wm. A. Rorer.               |
| Emporium            | Cameron      | 1,050           | 41                      | 64.2                         | -2.0                      | 91      | 19    | 31     | 3     | 38                       | 5.89  | +1.36                     | 2.04                 | 0                         | 7                            | 12    | 15                           | 3         | sw.        | T. B. Lloyd.                |
| Ephrata             | Lancaster    | 380             | 28                      | 69.8                         | +1.8                      | 94      | 19    | 40     | 4     | 40                       | 4.08  | -0.14                     | 0.97                 | 0                         | 12                           | 19    | 6                            | 5         | sw.        | Ira J. Keath.               |
| Freeland            | Luzerne      | 1,970           | 14                      | 66.6                         | .....                     | 88      | 19    | 37     | 3     | 30                       | 4.76  | .....                     | 1.74                 | 0                         | 15                           | 8     | 15                           | 7         | nw.        | Theo. Reichmann.            |
| George School       | Bucks        | 190             | 22                      | 71.6                         | +3.9                      | 98      | 21    | 40     | 4     | 37                       | 1.79  | -1.44                     | 0.65                 | 0                         | 11                           | 20    | 4                            | 6         | nw.        | Prof. N. W. Swayne          |
| Gettysburg          | Adams        | 553             | 55                      | 70.9                         | +1.3                      | 94      | 19    | 42     | 4     | 35                       | 3.70  | -0.20                     | 0.78                 | 0                         | 12                           | 19    | 5                            | 6         | sw.        | Dr. Henry Stewart           |
| Gordon              | Schuylkill   | 840             | 25                      | 65.6                         | +0.4                      | 90      | 18    | 32     | 4     | 48                       | 3.75  | -0.65                     | 0.95                 | 0                         | 11                           | 20    | 4                            | 6         | n.         | Capt. J. G. Johnson         |
| Gouldsboro          | Wayne        | 1,875           | 5                       | 62.0                         | .....                     | 88      | 24    | 32     | 3     | 40                       | 2.42  | -2.31                     | 0.67                 | 0                         | 11                           | 18    | 8                            | 4         | w.         | Gustav Holtz.               |
| Hamburg             | Berks        | 585             | 36                      | 68.8                         | -0.7                      | 93      | 18    | 37     | 4     | 42                       | 3.93  | -0.29                     | 1.02                 | 0                         | 10                           | 18    | 9                            | 3         | sw.        | State Sanatorium.           |
| Hanover             | York         | 600             | 25                      | 70.8                         | +0.2                      | 93      | 19    | 41     | 4     | 30                       | 5.82  | +2.09                     | 1.90                 | 0                         | 11                           | 21    | 5                            | 4         | s.         | Thomas Y. Cooper.           |
| Harrisburg          | Dauphin      | 361             | 59                      | 70.6                         | +0.3                      | 94      | 19    | 44     | 3     | 32                       | 5.74  | +2.15                     | 1.88                 | 0                         | 12                           | 9     | 15                           | 0         | nw.        | U. S. Weather Bureau.       |
| Hawley              | Wayne        | 900             | 10                      | 65.6                         | .....                     | 92      | 18    | 31     | 3     | 46                       | 1.92  | .....                     | 0.80                 | 0                         | 8                            | 14    | 16                           | 0         | nw.        | Mrs. Della M. Pennell.      |
| Holtwood            | Lancaster    | 200             | 14                      | 73.4                         | .....                     | 95      | 18    | 48     | 4     | 30                       | 2.76  | -0.37                     | 0.86                 | 0                         | 11                           | 15    | 11                           | 4         | sw.        | H. W. Lowy, C. E.           |
| Huntingdon          | Huntingdon   | 650             | 41                      | 68.4                         | +0.2                      | 97      | 19    | 33     | 3     | 41                       | 3.20  | -1.28                     | 0.97                 | 0                         | 8                            | 10    | 13                           | 7         | .....      | Prof. H. A. Conner.         |
| Hyndman             | Bedford      | 977             | 18                      | 70.2                         | +2.8                      | 95      | 19    | 41     | 3     | 48                       | 4.77  | -0.55                     | 1.78                 | 0                         | 9                            | 21    | 4                            | 5         | w.         | Horace A. Sheavly.          |
| Lancaster           | Lancaster    | 255             | 41                      | 63.8                         | -1.3                      | 97      | 19    | 36     | 4     | 45                       | 4.65  | +0.66                     | 1.19                 | 0                         | 9                            | 21    | 4                            | 5         | w.         | Supt. of Water Works.       |
| Lawrenceville       | Tioga        | 1,000           | 31                      | 65.8                         | +0.6                      | 95      | 19    | 33     | 6     | 43                       | 2.66  | -1.23                     | 1.10                 | 0                         | 6                            | 15    | 10                           | 5         | sw.        | C. P. Darling.              |
| Lebanon             | Lebanon      | 469             | 88                      | 70.0                         | +0.7                      | 97      | 19    | 40     | 4     | 41                       | 4.09  | +0.03                     | 1.17                 | 0                         | 12                           | 17    | 9                            | 4         | sw.        | S. B. Benzing.              |
| Lewisburg           | Union        | 450             | 54                      | 69.6                         | +2.4                      | 97      | 19    | 36     | 3     | 44                       | 2.66  | -1.50                     | 0.95                 | 0                         | 13                           | 15    | 11                           | 4         | sw.        | Prof. W. G. Owens.          |
| Lock Haven          | Clinton      | 560             | 39                      | 69.6                         | +0.2                      | 98      | 19    | 36     | 3     | 39                       | 5.43  | +1.03                     | 1.98                 | 0                         | 13                           | 14    | 15                           | 1         | sw.        | Joseph Beaver.              |
| Lykens              | Dauphin      | 680             | 14                      | 67.9                         | -0.3                      | 96      | 19    | 34     | 3     | 47                       | 4.71  | +0.13                     | 0.88                 | 0                         | 13                           | 18    | 11                           | 1         | nw.        | Susquehanna Collieries Co.  |
| Mauch Chunk         | Carbon       | 600             | 38                      | 67.2                         | -0.6                      | 95      | 18    | 35     | 3     | 52                       | 3.84  | -0.46                     | 1.05                 | 0                         | 12                           | 21    | 7                            | 2         | s.         | R. K. Wintermute.           |
| Millintown          | Juniata      | 445             | 25                      | 68.6                         | +0.8                      | 94      | 19    | 36     | 4     | 42                       | 5.56  | +1.20                     | 2.15                 | 0                         | 12                           | 15    | 10                           | 5         | w.         | Wellington Smith.           |
| Montrose            | Susquehanna  | 1,720           | 26                      | 63.1                         | +0.4                      | 88      | 19    | 32     | 3     | 33                       | 1.72  | -2.10                     | 0.42                 | 0                         | 9                            | 14    | 10                           | 6         | sw.        | Silas Jagger.               |
| Mt. Pocono          | Monroe       | 1,658           | 25                      | 63.9                         | +2.3                      | 97      | 18    | 34     | 3     | 34                       | 4.45  | -0.34                     | 2.00                 | 0                         | 13                           | 21    | 1                            | 8         | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley        | Sullivan     | 1,045           | 17                      | 65.6                         | -0.1                      | 93      | 18    | 32     | 3     | 49                       | 4.73  | -0.37                     | 1.71                 | 0                         | 10                           | 20    | 8                            | 2         | w.         | H. O. Hacker.               |
| Narberth            | Montgomery   | 300             | 10                      | 70.6                         | .....                     | 95      | 19    | 42     | 4     | 38                       | 2.69  | .....                     | 0.90                 | 0                         | 9                            | 12    | 11                           | 7         | sw.        | Charles Decker.             |
| Neshaminy Falls     | Bucks        | 60              | 40                      | 69.6                         | +0.4                      | 96      | 19    | 41     | 4     | 39                       | 2.52  | .....                     | 0.65                 | 0                         | 10                           | 14    | 13                           | 3         | s.         | North Springfield Water Co. |
| Palmerton           | Carbon       | 398             | 12                      | 67.2                         | .....                     | 91      | 19    | 38     | 4     | 41                       | 3.55  | .....                     | 1.22                 | 0                         | 10                           | 10    | 14                           | 6         | sw.        | New Jersey Zinc Co.         |
| Philadelphia        | Philadelphia | 114             | 58                      | 72.8                         | +1.4                      | 95      | 19    | 48     | 3     | 25                       | 2.74  | -0.50                     | 1.12                 | 0                         | 7                            | 10    | 11                           | 9         | sw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.   | Philadelphia | 113             | 5                       | 73.5                         | .....                     | 96      | 19    | 48     | 3     | 26                       | 3.71  | .....                     | 1.06                 | 0                         | 8                            | 7     | 16                           | 7         | .....      | Julius Bernstein.           |
| Phila. Navy Yard    | Philadelphia | 12              | 13                      | 72.1                         | +0.3                      | 97      | 19    | 47     | 3     | 28                       | 3.02  | -0.62                     | 0.95                 | 0                         | 11                           | 11    | 5                            | 14        | .....      | Commandant, Navy Yard.      |
| Phila. Point Breeze | Philadelphia | 90              | 4                       | 73.0                         | .....                     | 96      | 19    | 47     | 3     | 32                       | 2.96  | .....                     | 1.11                 | 0                         | 7                            | 13    | 11                           | 6         | w.         | Atlantic Refining Co.       |
| Phoenixville        | Chester      | 100             | 18                      | 72.3                         | +0.8                      | 98      | 19    | 41     | 4     | 43                       | 2.98  | -0.68                     | 1.10                 | 0                         | 9                            | 22    | 7                            | 1         | s.         | North Springfield Water Co. |
| Quakertown          | Bucks        | 496             | 44                      | 69.0                         | +0.8                      | 94      | 18    | 40     | 2     | 45                       | 4.09  | +0.43                     | 1.31                 | 0                         | 10                           | 16    | 8                            | 6         | nw.        | John E. Benner.             |
| Reading             | Berks        | 325             | 59                      | 71.2                         | +1.4                      | 95      | 19    | 45     | 3     | 33                       | 3.65  | +0.10                     | 0.90                 | 0                         | 10                           | 11    | 12                           | 7         | sw.        | U. S. Weather Bureau.       |
| Scranton            | Lackawanna   | 805             | 34                      | 67.8                         | 0.0                       | 92      | 19    | 40     | 3     | 37                       | 3.43  | -0.24                     | 2.16                 | 0                         | 10                           | 5     | 11                           | 14        | sw.        | U. S. Weather Bureau.       |
| Selinsgrove         | Snyder       | 455             | 39                      | 68.6                         | -0.4                      | 96      | 19    | 36     | 4     | 41                       | 3.43  | -0.82                     | 1.05                 | 0                         | 9                            | 15    | 12                           | 3         | sw.        | Dr. George E. Fisher.       |
| Shawmont            | Philadelphia | 51              | 33                      | 72.4                         | .....                     | 93      | 19    | 45     | 4     | 34                       | 2.96  | -0.51                     | 0.98                 | 0                         | 9                            | 14    | 13                           | 3         | s.         | W. S. Guiles.               |
| State College       | Center       | 1,217           | 44                      | 67.2                         | +0.7                      | 92      | 18    | 35     | 3     | 37                       | 3.47  | -0.90                     | 1.53                 | 0                         | 10                           | 15    | 11                           | 4         | sw.        | C. A. Kern.                 |
| Stroudsburg         | Monroe       | 500             | 13                      | 66.6                         | +0.3                      | 91      | 18    | 35     | 4     | 47                       | 2.95  | -1.24                     | 0.80                 | 0                         | 9                            | 10    | 11                           | 9         | w.         | State Normal School.        |
| Towanda             | Bradford     | 734             | 34                      | 65.7                         | +0.4                      | 90      | 19    | 34     | 3     | 40                       | 2.43  | -1.16                     | 0.71                 | 0                         | 9                            | 11    | 13                           | 6         | s.         | Hiram E. Bull, C. E.        |
| Wellshoro           | Tioga        | 1,419           | 63                      | 63.1                         | -1.4                      | 92      | 18    | 32     | 3     | 45                       | 2.70  | -1.35                     | 1.47                 | 0                         | 7                            | 25    | 3                            | 2         | sw.        | George W. Hill.             |
| West Chester        | Chester      | 455             | 91                      | 70.6                         | +1.2                      | 94      | 18    | 44     | 3     | 42                       | 4.45  | +0.26                     | 1.35                 | 0                         | 8                            | 18    | 8                            | 4         | w.         | Joseph W. Belt.             |
| Williamsport        | Lycoming     | 521             | 42                      | 69.2                         | +0.7                      | 96      | 18    | 36     | 3     | 41                       | 3.95  | +0.05                     | 1.10                 | 0                         | 8                            | 14    | 10                           | 6         | nw.        | Miss Veronica E. April.     |
| York                | York         | 400             | 41                      | 70.2                         | +0.3                      | 96      | 19    | 35     | 4     | 41                       | 6.23  | +2.75                     | 1.65                 | 0                         | 10                           | 18    | 11                           | 1         | e.         | York Water Co.              |
| Ohio Drainage.      |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam          | Beaver       | 700             | 36                      | 67.4                         | -2.9                      | 91      | 18    | 36     | 3     | 43                       | 3.40  | -1.25                     | 1.73                 | 0                         | 12                           | 5     | 15                           | 10        | sw.        | U. S. Engineer.             |
| Bradford            | McKean       | 1,460           | 14                      | 67.2                         | .....                     | 96      | 18    | 36     | 3     | 38                       | 1.95  | .....                     | 0.88                 | 0                         | 9                            | 8     | 20                           | 2         | s.         | Supt. Timber Pres. Plant.   |
| Brookville          | Jefferson    | 1,173           | 38                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      | John Fawcett.               |
| Butler              | Butler       | 1,152           | 4                       | 68.4                         | .....                     | 96      | 19    | 32     | 3     | 45                       | 3.00  | .....                     | 1.31                 | 0                         | 5                            | 20    | 4                            | 6         | .....      | William C. Faust.           |
| Claysville          | Washington   | 1,150           | 25                      | 68.0                         | -0.2                      | 94      | 18    | 33     | 4     | 45                       | 6.30  | +2.15                     | 1.46                 | 0                         | 9                            | 20    | 5                            | 2         | s.         | J. L. Melvin.               |
| Corry               | Erie         | 1,430           | 17                      | 63.9                         | -1.5                      | 92      | 18    | 30     | 3     | 42                       | 2.92  | -2.71                     | 0.94                 | 0                         | 11                           | 12    | 7                            | 11        | .....      | Ass'd Gas & Electric Co.    |
| Coudersport         | Potter       | 1,765           | 5                       | 63.9                         | .....                     |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |



## Daily Precipitation for June, 1929

| Stations           | Drainage Basin | Day of month |   |   |     |     |     |      |     |     |    |     |     |     |      |     |     |     |     |     |      |      |      |      |       |      |     |      |      |      |     |      | Total |
|--------------------|----------------|--------------|---|---|-----|-----|-----|------|-----|-----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|------|------|-------|------|-----|------|------|------|-----|------|-------|
|                    |                | 1            | 2 | 3 | 4   | 5   | 6   | 7    | 8   | 9   | 10 | 11  | 12  | 13  | 14   | 15  | 16  | 17  | 18  | 19  | 20   | 21   | 22   | 23   | 24    | 25   | 26  | 27   | 28   | 29   | 30  | 31   |       |
| Atlantic Drainage. |                |              |   |   |     |     |     |      |     |     |    |     |     |     |      |     |     |     |     |     |      |      |      |      |       |      |     |      |      |      |     |      |       |
| Allentown\|\|\| | Lehigh         |              |   |   |     | .23 |     |      | .23 | .06 |    |     |     |     | .57  | .08 |     |     |     | .16 | T.   | .15  |      |      | .02   | .25  | .30 |      |      | 1.24 |     |      | 3.29  |
| Altoona            | Juniata        |              |   |   | .07 |     |     |      | .30 |     |    |     |     |     |      |     |     |     |     | .03 |      |      | .73  | .03  | .28   | T.   |     | .90  | T.   |      |     | 2.60 |       |
| Ansonia\|\|\| | W. Br. Susq.   |              |   |   | .06 | .10 |     |      |     |     |    |     | .10 |     |      |     |     | .26 |     | .03 |      |      |      | .73  | .03   | .28  | T.  |      | .90  | T.   |     | 2.60 |       |
| Arendtsville\|\|\| | Lower Susq.    |              |   |   |     |     |     |      |     |     |    |     |     |     |      |     |     |     |     | .21 |      |      |      |      |       |      |     | 1.02 | .14  | T.   |     | 2.84 |       |
| Baker's Summit     | Juniata        |              |   |   |     |     |     |      | .60 |     |    |     | .13 | .32 |      |     |     |     |     | .03 |      |      |      | .07  | .85   | .60  |     |      | .78  |      |     | 3.60 |       |
| Bellefonte**       | W. Br. Susq.   |              |   |   | .07 |     | T.  | T.   |     |     |    |     | .30 |     |      |     |     | T.  |     | T.  |      |      |      | 1.41 | .01   | .06  |     |      | .83  | T.   |     | 2.86 |       |
| Bethlehem          | Lehigh         |              |   |   |     | .32 |     |      | .29 |     |    |     |     | T.  | 1.20 |     |     |     |     | .01 | .09  | T.   | .27  | T.   | T.    | .05  | .33 |      | .38  | .96  |     | 3.90 |       |
| Bloersville\|\| | Lower Susq.    |              |   |   | .05 |     |     |      | .52 |     |    | .05 | .28 | .23 | .16  |     |     |     |     |     |      | 1.18 |      | 1.04 | .08   | 1.18 |     |      | .38  |      |     | 5.15 |       |
| Carlisle           | Lower Susq.    |              |   |   |     |     | T.  |      | .55 |     |    |     | .03 | .83 | .26  |     |     |     |     | T.  |      | .12  | 1.60 |      | 2.67  | .19  | .13 |      | .26  |      |     | 6.64 |       |
| Catawissa\|\| | N. Br. Susq.   |              |   |   | .12 |     | T.  |      | .01 |     |    |     |     |     | .13  |     |     | .18 |     | .07 |      |      | .64  |      | .40   | .02  | .36 | .15  |      | .80  |     |      | 2.88  |
| Center Hall        | Susquehanna    |              |   |   | .12 |     |     |      |     |     |    |     | .01 |     |      |     |     |     |     |     |      |      |      |      | .48   | .76  | .05 |      |      | .47  |     |      | 1.99  |
| Chambersburg       | Potomac        |              |   |   |     |     |     |      | .48 |     |    |     |     | .02 | .45  | .17 |     |     |     |     |      |      |      |      | 1.13  | .35  |     |      | .53  |      |     | 3.14 |       |
| Clearfield         | W. Br. Susq.   |              |   |   | .02 |     |     |      |     |     |    | .05 | .08 |     |      |     |     |     |     | .08 |      | 1.33 | .01  | .80  | .20   | .07  |     | .85  |      | T.   |     | 3.49 |       |
| Coatesville        | Lower Del.     |              |   |   | .11 |     |     |      | .65 |     |    |     |     |     | .27  |     |     |     |     | T.  | .98  |      | .05  |      | .21   |      | .25 |      |      |      |     | 2.52 |       |
| Coletbrook         | Lower Susq.    |              |   |   | .15 |     |     |      | .62 |     |    |     |     | T.  | .40  |     | T.  |     |     | .55 | .32  | .10  | .82  | .05  | 1.04  | .63  |     | .60  |      | T.   |     | 5.28 |       |
| Conshohocken       | Schuylkill     |              |   |   |     | .14 |     | 1.08 |     |     |    |     |     | T.  | .74  |     |     |     |     |     |      |      | .11  |      | .12   | .03  |     | .32  |      |      |     | 2.86 |       |
| Cresskill          | Juniata        |              |   |   | .04 |     | .20 | .20  |     |     |    |     |     |     |      | .80 |     |     |     | .10 | .05  | .05  |      | .50  | .10   | .40  |     | 1.00 |      |      |     | 3.44 |       |
| Doylestown         | Lower Del.     |              |   |   |     | .25 |     | .40  |     |     |    |     |     | T.  | .49  |     |     |     |     | .02 | .18  |      | .05  |      | .02   | .42  | .06 |      | .32  |      |     | 2.21 |       |
| Driftwood\|\|\| | W. Br. Susq.   |              |   |   |     | .04 |     |      |     |     |    |     |     | T.  |      |     |     |     | .04 |     |      |      |      |      |       |      |     |      |      |      |     | 3.38 |       |
| Emporium           | do.            |              |   |   | .10 |     | T.  |      |     |     |    |     |     | T.  |      |     |     |     |     | .30 |      | 2.04 |      | 2.01 | .08   | .13  |     | 1.23 |      |      |     | 5.89 |       |
| Ephrata            | Lower Susq.    |              |   |   | .01 | .01 |     | .50  |     |     |    |     |     | .24 | .73  |     |     |     |     |     | .89  | .05  | .43  | T.   | .25   | .52  | .09 |      | .36  |      |     | 4.08 |       |
| Forest City        | N. Br. Susq.   |              |   |   |     |     |     |      |     |     |    |     |     |     |      |     |     |     |     | .45 |      |      |      | .30  | 1.10  | .04  | .19 | .95  | .08  |      |     | 3.21 |       |
| Freeland\|\|\| | Lehigh         |              |   |   | .16 |     |     | .28  | .01 |     |    |     |     |     |      | .05 | .04 |     |     |     | 1.74 | .45  | .02  |      | .50   | .08  | .12 | .30  | .01  | .96  |     |      | 4.76  |
| George School      | Lower Del.     |              |   |   | .19 |     |     | .65  |     |     |    |     |     |     |      | .23 |     |     |     |     | .16  |      |      |      | .03   | .03  | .02 | .04  | .23  | .05  |     |      | 1.79  |
| Jettysburg         | Potomac        |              |   |   |     | .20 |     | .78  |     |     |    |     | .01 | .08 | .37  |     |     |     |     |     | .04  | .07  | .33  |      | .51   | .43  | .26 |      | .62  |      |     | 3.70 |       |
| Jordanville        | Lower Susq.    |              |   |   |     | .09 |     | .20  |     |     |    |     |     | .10 | .24  | T.  |     |     |     | .15 | .11  | .09  |      | .20  | .20   | .30  |     | .68  |      |      |     | 2.36 |       |
| Jordan             | Lower Susq.    |              |   |   | .15 |     |     | .28  |     |     |    |     |     | .25 | .26  | .05 |     |     |     |     | .18  | T.   | .95  |      | .85   | .45  | .07 |      | .26  |      |     | 3.75 |       |
| Joulesboro\|\| | Lehigh         |              |   |   | .15 |     |     | .10  |     |     |    |     |     |     | .26  |     |     | .02 |     |     | .36  | .04  | .02  |      | .64   |      | .06 | .10  |      | .67  |     |      | 2.42  |
| Graterford         | Schuylkill     |              |   |   | .11 |     |     | .32  |     |     |    |     |     |     | .84  |     |     |     |     |     | 1.38 | .07  |      |      | .12   | .39  |     | .17  |      |      |     | 3.40 |       |
| Hamburg            | Schuylkill     |              |   |   |     | .19 |     |      |     |     |    |     |     | .42 | .60  |     |     |     |     |     | .90  |      |      | .38  | .43   | .13  | .36 |      | .30  | .22  |     | 3.93 |       |
| Hanover            | Lower Susq.    |              |   |   |     | .11 |     | .66  |     |     |    |     |     | .06 | .53  |     |     |     |     |     | .64  | .29  | 1.90 |      | .33   | .02  | .83 |      | .45  |      |     | 5.82 |       |
| Harrisburg**       | do.            |              |   |   | .05 |     | .01 | .25  |     |     |    |     | T.  | .46 | .23  |     |     |     |     | .35 | .89  | .89  |      | 1.34 | .54   | .43  |     | .30  |      |      |     | 5.74 |       |
| Hawley\|\|\| | Upper Del.     |              |   |   | .16 |     |     | .08  |     |     |    |     |     |     |      | .23 |     | .05 |     |     | .34  | .10  |      |      | .31   | T.   | .08 | T.   |      | .80  |     |      | 1.92  |
| Hollisterville     | Upper Del.     |              |   |   | .12 |     |     | .06  |     |     |    |     |     |     |      |     |     |     |     |     | .44  | .35  |      |      | .42   | T.   | .14 | .02  |      | 1.05 |     |      | 2.60  |
| Holtwood\|\| | Lower Susq.    |              |   |   |     | T.  |     | .38  | .32 |     |    |     |     | .52 | .12  |     |     |     |     | .86 | .02  | .18  |      | .06  | .06   | .06  |     | .18  |      |      |     | 2.76 |       |
| Huntingdon         | Juniata        |              |   |   | .08 |     |     | .34  |     |     |    |     | .03 | .06 |      |     |     |     | T.  |     | .01  |      |      | .79  |       |      | .97 | T.   |      |      |     | 3.20 |       |
| Lyndman            | Potomac        |              |   |   |     |     |     | .83  |     |     |    |     | T.  |     |      |     |     |     |     |     |      |      |      | .59  | 1.78  | .30  | T.  |      | 1.18 | .09  |     | 4.77 |       |
| Lakeville\|\|\| | Upper Del.     |              |   |   |     | .15 |     |      |     |     |    |     |     |     |      | .39 | .80 |     |     |     | .20  | .15  |      |      | .39   | .05  | .10 | .04  |      | .87  |     | 1.95 |       |
| Lancaster          | Lower Susq.    |              |   |   |     |     |     | .70  |     |     |    |     |     |     | .39  | .80 |     |     |     |     | .32  | .96  | .45  |      | .20   | .31  |     | .52  |      |      |     | 4.65 |       |
| Lansford\|\|\| | Lehigh         |              |   |   | .07 |     |     | .12  | .06 | *   |    |     |     |     | .19  | .11 | *   |     |     |     | 1.30 |      | .99  |      | .87   | T.   | .17 | T.   |      | .58  |     |      | 4.46  |
| Lawrenceville      | N. Br. Susq.   |              |   |   | .48 |     | T.  |      |     |     |    |     |     |     |      |     |     |     |     |     | T.   |      | .05  | .30  | .28   |      |     | 1.10 | .45  |      |     | 2.66 |       |
| Lebanon            | Lower Susq.    |              |   |   | .05 |     | .36 | .09  |     |     |    |     |     | T.  | .21  | .17 |     | T.  |     | .13 | .39  | .55  |      | 1.17 | .15   | .34  |     | .48  |      | T.   |     | 4.09 |       |
| Lewisburg          | W. Br. Susq.   |              |   |   | .11 |     |     | .03  |     |     |    |     | T.  | .18 | .05  |     |     |     |     |     | .02  | .01  | .40  |      | .95   | .01  | .03 | .01  | .78  | .08  | T.  |      | 2.66  |
| Lloyd              | do.            |              |   |   | .08 |     |     |      |     |     |    |     |     |     |      |     |     |     |     | .18 |      |      |      | .80  |       |      |     |      |      |      |     | 1.10 |       |
| Lock Haven         | do.            |              |   |   | .19 |     |     |      |     |     |    |     | .41 | .08 |      |     |     | .06 | .09 |     | .04  | .12  | .56  |      | 1.98  | 1.17 |     | .01  | .65  | .07  |     | 5.43 |       |
| Lukens             | Susquehanna    |              |   |   | .18 | .07 |     | .21  |     |     |    |     |     | .38 | .27  |     |     |     | .03 |     | .87  | .25  | .50  |      | .88   | .70  | .05 |      | .32  |      |     | 4.71 |       |
| Lynchburg          | Lehigh         |              |   |   | .05 |     |     | .17  |     |     |    |     |     | .18 | .40  |     |     |     |     |     | .37  | .46  |      | .40  | .05   | 1.05 | .24 |      | .33  | .14  |     | 3.84 |       |
| Millintown         | Juniata        |              |   |   | T.  |     |     | .31  |     |     |    |     |     | .58 | .46  | .08 |     |     |     | .35 | .10  | .05  |      | .22  | .30   | 2.15 | .26 |      | .70  |      |     | 5.66 |       |
| Montrose           | N. Br. Susq.   |              |   |   | .15 |     |     |      |     |     |    |     | .05 | .03 |      |     |     |     |     | .13 |      |      |      |      | .35   | .42  |     | .14  | .25  | .10  |     | 1.72 |       |
| Morris Run         | N. Br. Susq.   |              |   |   | .48 |     | T.  |      |     |     |    |     |     | .30 |      | .04 |     |     |     | .20 | .03  | .56  |      | .80  | .28   | .42  | .05 |      | .89  |      | .03 | 4.08 |       |
| Mount Pocono       | Upper Del.     |              |   |   | .10 | .09 | .10 |      |     |     |    |     |     | .01 | .37  |     |     |     |     | .50 | .10  |      | .05  | .60  | 1.02  | .00  |     | .10  | .33  | T.   | T.  | 4.45 |       |
| Muncy Valley       | W. Br. Susq.   |              |   |   | .22 |     |     |      |     |     |    |     | .22 | .10 |      |     |     |     |     | T.  | .05  | .16  | .30  |      | 1.71  | 1.21 | T.  |      | .69  | .07  | T.  | 4.73 |       |
| Narberth           | Lower Del.     |              |   |   | .09 |     |     | .82  |     |     |    |     |     | T.  | .90  |     |     |     |     |     | .14  | T.   | .03  |      | .01   | .29  | .08 |      | .33  |      |     | 2.69 |       |
| Neshaminy\|\|\| | Lower Del.     |              |   |   | T.  |     |     | .30  | .40 | .25 |    |     |     | .43 | .14  |     |     |     |     |     | .05  | T.   |      |      | .04   | .55  | .12 |      | .24  |      |     | 2.52 |       |
| New Park           | Lower Susq.    |              |   |   | .05 |     |     | .72  |     |     |    |     |     |     | .44  |     |     |     |     |     | .76  | 1.78 |      |      | .13</ |      |     |      |      |      |     |      |       |



## Daily Precipitation for June, 1929—Continued from page 28

| Stations           | Drainage Basin    | Day of month |     |     |     |     |      |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      |      |      |      |     |      |      |      |      |      | Total |      |
|--------------------|-------------------|--------------|-----|-----|-----|-----|------|------|-----|---|----|----|-----|-----|------|-----|------|-----|-----|-----|------|-----|------|------|------|------|-----|------|------|------|------|------|-------|------|
|                    |                   | 1            | 2   | 3   | 4   | 5   | 6    | 7    | 8   | 9 | 10 | 11 | 12  | 13  | 14   | 15  | 16   | 17  | 18  | 19  | 20   | 21  | 22   | 23   | 24   | 25   | 26  | 27   | 28   | 29   | 30   | 31   |       |      |
| Ohio Drainage.     |                   |              |     |     |     |     |      |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      |      |      |      |     |      |      |      |      |      |       |      |
| Beaver Dam\|\|\| | Ohio.....         |              |     |     |     | .20 |      |      | .34 |   |    |    |     | .04 | .34  | .01 |      |     |     |     | .01  |     |      |      |      |      | .02 | .60  | .10  | .01  | .90  | .83  |       | 3.40 |
| Beaver Falls\|\|\| | Beaver.....       |              |     |     |     | T.  |      |      | .24 |   |    |    |     | .01 | .37  | T.  |      |     |     |     | .02  |     |      |      | T.   | T.   | .84 | .15  | .01  | .86  | .71  | .01  |       | 3.22 |
| Bradford.....      | Allegheny.....    |              |     |     | .22 |     |      |      |     |   |    |    |     | .02 |      |     |      |     |     |     | .02  |     | .31  |      | .10  |      | .18 | .16  |      | .88  | .06  |      | 1.96  |      |
| Brookville.....    | do.....           |              |     |     |     |     |      |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      |      |      |      |     |      |      |      |      |      |       |      |
| Butler.....        | Ohio.....         |              |     |     |     |     |      |      |     |   |    |    |     |     | .56  |     |      |     |     |     |      |     |      | .20  |      |      |     | 1.31 |      | .02  | .91  |      | 3.00  |      |
| Claysville.....    | do.....           |              |     |     | .07 |     |      | 1.18 |     |   |    |    | T.  |     | 1.40 |     |      | .76 |     |     | 1.46 |     |      |      | .04  | .10  |     |      | 1.28 |      | .01  |      | 6.30  |      |
| Cloett.....        | Allegheny.....    |              |     |     |     |     | .05  |      |     |   |    |    |     | .31 |      |     |      |     |     |     |      | T.  |      | 3.35 |      | .17  |     |      | .98  |      | T.   |      | 4.86  |      |
| Clymer\|\|\| | Conemaugh.....    |              |     | .12 | .04 |     |      | .22  |     |   |    |    | T.  |     |      |     |      |     |     | T.  |      |     |      | 2.14 | .17  | .08  | .02 |      | 1.08 |      |      | 3.87 |       |      |
| Confluence\|\|\| | Youghiogheny..... |              |     |     |     |     |      | .75  | .10 |   |    |    |     |     |      |     |      |     | .65 |     |      |     | .20  |      | .63  | .70  | .10 | .08  |      | .04  | 1.20 |      | 4.45  |      |
| Coraopolis\|\|\| | Ohio.....         |              |     |     | .02 |     |      | .44  |     |   |    |    |     | .10 | .41  |     | .01  |     |     |     |      |     |      |      | .21  | .22  | .17 | .04  |      | .80  | .15  | T.   | 2.57  |      |
| Corry.....         | Allegheny.....    |              |     |     | .45 |     |      |      | .03 |   |    |    |     | .03 | .27  | .01 |      |     |     |     | .05  |     |      |      |      | .40  | .45 |      | .24  |      | .94  | .05  |       | 2.92 |
| Coudersport.....   | do.....           |              |     | .03 | .16 |     |      |      |     |   |    |    | .10 |     |      | .16 |      |     |     |     |      |     | .70  | 1.60 |      | .19  | .08 |      | 1.18 |      |      |      | 4.20  |      |
| Creekside.....     | Allegheny.....    |              |     |     |     | .30 |      | .15  |     |   |    |    |     | .12 |      |     |      | T.  |     | .01 |      | T.  |      | T.   | 2.94 | .18  | *   | .05  | .24  |      | .01  |      | 4.00  |      |
| Derry.....         | Conemaugh.....    |              |     | .06 |     |     |      | .40  |     |   |    |    |     |     |      |     | .31  |     |     |     |      |     |      | .53  |      | .15  |     |      | 1.15 | .41  |      |      | 3.01  |      |
| Donora\|\|\| | Monongahela.....  |              |     |     |     |     |      | .95  |     |   |    |    |     |     | .40  |     |      |     | .04 |     |      |     |      |      | .21  | .01  | .01 |      | .84  | .63  |      |      | 3.09  |      |
| Ebensburg.....     | Conemaugh.....    |              |     | .12 |     |     |      | .39  |     |   |    |    |     |     |      |     | 1.35 |     |     | .02 |      | .66 |      |      | .08  | .48  | .73 |      |      | .98  | .08  |      | 4.89  |      |
| Elk Lick.....      | Youghiogheny..... |              |     |     |     | .25 | .75  |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     | 1.03 | 1.75 | .10  | .80  |     |      | 1.05 |      |      |      | 5.73  |      |
| Falls Creek.....   | Allegheny.....    |              |     | .05 |     |     |      |      |     |   |    |    |     |     |      |     |      | .10 |     |     | .72  |     |      |      | .99  |      | .32 |      | .85  |      |      |      | 3.03  |      |
| Franklin\|\|\| | Allegheny.....    |              |     |     | .03 | .08 |      |      |     |   |    |    |     |     | .40  |     | .06  | .21 |     |     |      |     |      |      | .13  | .68  | .10 | .09  | .50  | .51  |      |      | 2.79  |      |
| Freeport\|\|\| | do.....           |              |     |     | .15 |     |      | .26  |     |   |    |    |     |     | .04  |     |      |     |     |     |      |     |      | .05  | .15  | .35  | .09 | .01  | .45  | .10  | T.   |      | 1.65  |      |
| Greensboro.....    | Monongahela.....  | .04          |     |     |     |     |      | .68  | .04 |   |    |    |     |     | T.   | T.  | T.   |     | .26 | T.  | T.   | T.  | .09  |      | T.   | .70  | .01 | .32  |      | .22  | .98  |      | 3.19  |      |
| Greensburg.....    | Youghiogheny..... |              |     | .04 |     |     |      | .50  |     |   |    |    |     |     |      |     |      | .26 | T.  | T.  | T.   |     |      | 1.08 | .03  | .18  | .04 |      | 1.04 | .62  | T.   |      | 3.88  |      |
| Greenville.....    | Beaver.....       |              |     | .08 |     |     |      |      |     |   |    |    |     |     | .45  | .05 | .17  |     |     |     |      |     |      | .07  | .77  | .47  | .07 | T.   | .72  | T.   | .09  |      | 2.94  |      |
| Grove City.....    | Beaver.....       |              |     |     |     |     |      |      |     |   |    |    |     | T.  | .50  | .32 |      |     |     |     |      |     |      | .10  | .73  | T.   | .04 | 1.35 | .13  | .21  |      | 3.38 |       |      |
| Herrs Isl. Dam\|\|\| | Ohio.....         |              |     |     | .08 |     |      | .44  |     |   |    |    |     | .07 | .25  |     |      |     | .02 |     |      |     |      |      | .04  | .15  | .18 |      | .90  | .56  |      |      | 2.69  |      |
| Ingram.....        | Ohio.....         |              |     | .04 |     | T.  |      | .47  |     |   |    |    |     | .12 | .41  |     |      |     |     |     |      |     |      |      | .05  | .41  |     |      | 1.35 |      |      |      | 2.85  |      |
| Irwin.....         | Youghiogheny..... |              |     | .01 |     | .35 |      |      |     |   |    |    |     | .05 | .03  |     |      |     | .33 |     |      | .04 | .08  |      | .44  | .03  | .06 | .02  |      | 1.09 | .22  | T.   | 2.75  |      |
| Johnstown.....     | Conemaugh.....    |              |     | .07 |     |     |      | .35  |     |   |    |    |     |     | .01  |     |      |     | .34 |     | .05  |     | 2.47 |      | .84  | .22  | .85 |      | 1.44 |      |      |      | 6.64  |      |
| Kregar\|\|\| | Youghiogheny..... |              |     | .11 |     | .61 | .08  |      |     |   |    |    |     |     |      |     |      |     |     | .68 | .19  |     |      | .91  | .44  | .61  |     |      | 1.57 |      | T.   |      | 5.20  |      |
| Lock No. 4\|\|\| | Monongahela.....  |              |     |     | .06 |     |      | 1.22 |     |   |    |    |     |     | .34  |     |      |     |     | .20 | T.   | .28 |      |      | .17  | .12  | .03 |      | .60  | .30  |      |      | 3.32  |      |
| Lycippus.....      | Conemaugh.....    |              |     | .12 |     |     | .60  |      |     |   |    |    |     |     |      | .12 | .09  |     |     |     |      | .09 |      | .88  |      | .60  |     |      | 2.10 | .22  |      |      | 4.81  |      |
| Meadville.....     | Allegheny.....    |              |     | .10 |     |     |      |      |     |   |    |    |     |     | .38  |     |      |     |     |     |      |     |      | .04  |      | .49  |     | .20  | 1.35 |      | .03  |      | 2.80  |      |
| Mount Lebanon..... | Ohio.....         |              |     | .03 |     |     |      | .64  |     |   |    |    |     |     | .33  |     |      | .03 |     |     | T.   | .04 | T.   |      | .23  | .15  |     |      | 1.55 | .27  |      |      | 3.27  |      |
| New Castle\|\|\| | Beaver.....       |              |     |     |     |     |      |      |     |   |    |    |     | .14 | .38  |     |      |     |     |     |      |     |      |      | .14  | 1.07 | .20 | .06  | .79  | .02  | .08  |      | 3.59  |      |
| Newell.....        | Monongahela.....  |              |     |     |     | .75 |      |      |     |   |    |    |     |     |      |     |      | .03 | .01 |     |      |     |      |      | .06  | .04  |     |      | .98  |      |      |      | 1.87  |      |
| Parkers Landing\|\|\| | Allegheny.....    |              |     |     |     |     |      |      |     |   |    |    |     |     | .32  |     |      |     |     |     |      |     | T.   | T.   | .08  | 2.00 | .10 | .02  | .80  | .66  | T.   |      | 4.00  |      |
| Pennline\|\|\| | Beaver.....       |              |     |     | T.  | .06 |      |      |     |   |    |    |     | .04 | .26  |     | .63  | .39 |     |     |      | .18 |      |      | .11  | .23  | .09 | .50  | .56  | .18  | .01  |      | 3.24  |      |
| Pittsburgh***      | Ohio.....         |              |     | .04 |     | .35 | .07  |      |     |   |    |    |     | .01 | .22  |     |      |     |     |     |      |     |      |      | .03  | .09  | .12 |      | 1.28 |      | T.   |      | 2.21  |      |
| Ridgway.....       | Allegheny.....    |              | .04 |     |     |     |      |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      |      | .29  | .30  |     |      | 1.95 | T.   |      |      | 2.58  |      |
| Saltsburg\|\|\| | Conemaugh.....    |              |     |     |     |     | .37  |      |     |   |    |    |     |     |      |     |      | .06 |     | .05 |      |     |      |      | .18  | .16  | .09 |      | .84  | .20  | T.   |      | 1.95  |      |
| Sharon\|\|\| | Beaver.....       |              |     |     | T.  |     |      |      |     |   |    |    |     |     | .18  |     |      | .08 |     | .60 |      |     |      | T.   |      | .25  | .10 |      | .33  | .29  | .14  |      | 1.97  |      |
| Somerset.....      | Youghiogheny..... |              |     |     |     |     | 1.10 |      |     |   |    |    |     | .12 |      |     |      | .25 | .10 |     |      |     |      | .15  | .40  | .18  | .19 |      | .88  | .25  |      |      | 3.62  |      |
| Springdale\|\|\| | Allegheny.....    |              |     |     |     | .02 |      | .43  |     |   |    |    |     | .01 | .05  |     |      |     |     |     |      |     |      | T.   | .18  | .24  | .10 |      | 1.32 | .45  | .01  |      | 3.17  |      |
| Uniontown.....     | Monongahela.....  |              | .02 |     |     |     |      | 1.20 |     |   |    |    |     | T.  | T.   |     |      | .10 | .32 |     |      |     |      | 1.10 |      | .36  |     |      | 2.30 |      | T.   |      | 5.40  |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |     |     | .08 |     |      |      | .47 |   |    |    |     |     |      |     |      | .23 |     |     |      |     |      |      | 1.32 |      | .15 |      | 1.20 | .59  |      |      | 4.04  |      |
| Vandergrift\|\|\| | Conemaugh.....    |              |     |     | .48 | .04 |      |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      | .95  | .40  | .40  |     |      | 1.40 |      |      |      | 3.67  |      |
| Warren.....        | Allegheny.....    |              | .31 |     | .05 |     |      |      |     |   |    |    |     | .20 | .05  |     |      |     |     | .80 |      |     |      | .06  | .40  | .56  | .47 |      | .95  |      | .01  |      | 3.85  |      |
| Westford\|\|\| | Beaver.....       |              |     |     |     |     |      |      |     |   |    |    |     | .38 |      | .40 | .35  |     | .89 |     |      |     |      |      | .45  | .14  |     | .60  | .35  |      |      |      | 3.56  |      |
| West Newton\|\|\| | Youghiogheny..... |              |     |     |     | .02 |      | 1.16 |     |   |    |    |     |     | .09  |     |      |     |     | .05 |      | .22 |      |      | .71  |      | .05 |      | .72  | .49  |      |      | 3.51  |      |
| Zelienople\|\|\| | Ohio.....         |              |     |     |     |     |      | .15  |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      |      |      | .14  |     | 1.84 |      |      |      |      | 2.71  |      |
| Lake Drainage.     |                   |              |     |     |     |     |      |      |     |   |    |    |     |     |      |     |      |     |     |     |      |     |      |      |      |      |     |      |      |      |      |      |       |      |
| Erie***            | Lake Erie.....    |              |     |     | .02 | .08 |      | T.   |     |   |    |    |     | .01 | .39  | .13 |      |     |     |     |      | T.  |      |      | T.   | .07  | .22 | .19  |      | .16  |      | .11  |       | 1.38 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville  
Newville; of Clos, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.



Daily Temperatures for June, 1929

| Stations          | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |
|-------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Allentown.....    | Maximum | 77    | 66    | 69    | 73    | 74    | 75    | 85    | 59    | 74    | 76    | 86    | 85    | 90    | 92    | 81    | 86    | 90    | 94    | 95    | 86    | 87    | 90    | 89    | 88    | 90    | 81    | 81    | 76    | 78    | 83    | 81.9  |
|                   | Minimum | 61    | 44    | 43    | 41    | 50    | 51    | 52    | 50    | 47    | 50    | 47    | 55    | 62    | 66    | 64    | 60    | 64    | 64    | 69    | 66    | 66    | 63    | 66    | 69    | 71    | 64    | 59    | 62    | 61    | 51    | 57.9  |
| Altoona.....      | Maximum | 77    | 64    | 62    | 70    | 69    | 74    | 78    | 74    | 72    | 78    | 83    | 85    | 85    | 84    | 81    | 84    | 84    | 90    | 92    | 86    | 85    | 86    | 87    | 82    | 80    | 76    | 78    | 76    | 75    | 78    | 79.2  |
|                   | Minimum | 56    | 38    | 33    | 36    | 45    | 36    | 52    | 53    | 47    | 45    | 47    | 50    | 67    | 60    | 57    | 57    | 61    | 60    | 64    | 65    | 62    | 52    | 65    | 62    | 66    | 53    | 50    | 58    | 57    | 50    | 53.5  |
| Beaver Dam.....   | Maximum | 82    | 66    | 60    | 70    | 70    | 76    | 79    | 75    | 77    | 78    | 84    | 84    | 84    | 83    | 78    | 85    | 86    | 91    | 90    | 86    | 87    | 88    | 87    | 89    | 88    | 80    | 82    | 83    | 74    | 79    | 80.7  |
|                   | Minimum | 53    | 42    | 36    | 39    | 52    | 43    | 50    | 54    | 49    | 49    | 51    | 60    | 63    | 63    | 55    | 57    | 57    | 62    | 62    | 62    | 62    | 53    | 44    | 63    | 66    | 53    | 52    | 61    | 58    | 52    | 54.1  |
| Bellefonte.....   | Maximum | 72    | 65    | 60    | 71    | 68    | 73    | 77    | 70    | 75    | 78    | 83    | 85    | 83    | 84    | 79    | 84    | 85    | 92    | 92    | 87    | 88    | 88    | 87    | 84    | 80    | 77    | 80    | 76    | 73    | 79    | 79.2  |
|                   | Minimum | 50    | 39    | 32    | 34    | 44    | 32    | 44    | 51    | 42    | 41    | 43    | 50    | 62    | 61    | 56    | 50    | 58    | 53    | 57    | 61    | 57    | 53    | 63    | 62    | 60    | 53    | 48    | 61    | 54    | 48    | 50.6  |
| Brookville.....   | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
|                   | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Butler.....       | Maximum | 84    | 75    | 70    | 70    | 72    | 75    | 80    | 84    | 80    | 87    | 84    | 86    | 85    | 86    | 86    | 87    | 92    | 94    | 96    | 91    | 90    | 87    | 80    | 85    | 90    | 89    | 84    | 79    | 82    | 78    | 83.6  |
|                   | Minimum | 54    | 37    | 32    | 34    | 54    | 34    | 49    | 52    | 49    | 42    | 48    | 59    | 65    | 63    | 60    | 57    | 60    | 58    | 60    | 65    | 58    | 48    | 48    | 62    | 61    | 66    | 52    | 49    | 61    | 57    | 53.1  |
| Carlisle.....     | Maximum | 92    | 78    | 67    | 78    | 78    | 80    | 87    | 85    | 77    | 82    | 87    | 88    | 91    | 90    | 83    | 81    | 93    | 97    | 96    | 93    | 90    | 90    | 90    | 87    | 87    | 82    | 80    | 80    | 80    | 85    | 85.2  |
|                   | Minimum | 62    | 44    | 40    | 37    | 48    | 45    | 48    | 53    | 47    | 44    | 46    | 52    | 61    | 62    | 63    | 54    | 65    | 63    | 67    | 67    | 66    | 62    | 71    | 68    | 68    | 60    | 54    | 60    | 64    | 64    | 56.8  |
| Catawissa.....    | Maximum | 72    | 68    | 66    | 72    | 73    | 78    | 86    | 68    | 81    | 84    | 91    | 91    | 93    | 95    | 88    | 90    | 95    | 97    | 97    | 94    | 93    | 92    | 89    | 89    | 88    | 83    | 84    | 76    | 78    | 82    | 84.4  |
|                   | Minimum | 53    | 41    | 35    | 34    | 48    | 44    | 46    | 48    | 42    | 44    | 48    | 45    | 64    | 65    | 63    | 52    | 60    | 59    | 61    | 62    | 64    | 62    | 58    | 65    | 68    | 56    | 52    | 64    | 59    | 47    | 53.8  |
| Chambersburg..... | Maximum | 82    | 73    | 65    | 72    | 72    | 75    | 85    | 79    | 73    | 75    | 83    | 85    | 86    | 86    | 82    | 84    | 86    | 91    | 95    | 88    | 91    | 90    | 88    | 85    | 86    | 79    | 79    | 77    | 77    | 82    | 81.7  |
|                   | Minimum | 57    | 46    | 43    | 37    | 50    | 46    | 50    | 54    | 45    | 45    | 45    | 52    | 62    | 63    | 55    | 59    | 57    | 63    | 65    | 62    | 63    | 68    | 68    | 69    | 60    | 54    | 58    | 62    | 49    | 55    | 58.8  |
| Claysville.....   | Maximum | 81    | 72    | 68    | 78    | 75    | 79    | 84    | 75    | 76    | 78    | 85    | 83    | 87    | 84    | 86    | 85    | 85    | 94    | 92    | 91    | 88    | 92    | 88    | 93    | 88    | 84    | 86    | 83    | 78    | 77    | 83.0  |
|                   | Minimum | 53    | 44    | 36    | 33    | 47    | 43    | 54    | 53    | 58    | 51    | 50    | 45    | 56    | 59    | 68    | 64    | 60    | 64    | 62    | 68    | 66    | 63    | 72    | 73    | 70    | 65    | 61    | 59    | 63    | 49    | 58.2  |
| Clearfield.....   | Maximum | 85    | 70    | 62    | 75    | 68    | 77    | 79    | 83    | 78    | 83    | 83    | 87    | 85    | 86    | 80    | 83    | 85    | 93    | 98    | 90    | 91    | 91    | 84    | 87    | 84    | 81    | 86    | 80    | 82    | 78    | 82.5  |
|                   | Minimum | 60    | 37    | 31    | 33    | 44    | 47    | 49    | 47    | 41    | 41    | 46    | 49    | 70    | 54    | 53    | 51    | 60    | 65    | 72    | 56    | 72    | 65    | 50    | 68    | 64    | 50    | 49    | 59    | 52    | 46    | 51.6  |
| Coatesville.....  | Maximum | 79    | 68    | 64    | 72    | 75    | 75    | 83    | 74    | 73    | 73    | 83    | 83    | 87    | 80    | 86    | 89    | 92    | 94    | 89    | 87    | 89    | 89    | 89    | 90    | 88    | 81    | 81    | 75    | 76    | 83    | 81.6  |
|                   | Minimum | 61    | 43    | 43    | 39    | 46    | 54    | 53    | 58    | 51    | 50    | 45    | 56    | 59    | 68    | 64    | 60    | 64    | 62    | 68    | 66    | 65    | 63    | 72    | 73    | 70    | 65    | 61    | 59    | 63    | 49    | 58.2  |
| Corry.....        | Maximum | 73    | 57    | 58    | 71    | 61    | 73    | 72    | 70    | 75    | 81    | 85    | 79    | 83    | 81    | 77    | 85    | 88    | 92    | 92    | 85    | 85    | 87    | 84    | 88    | 75    | 75    | 76    | 76    | 71    | 77    | 77.7  |
|                   | Minimum | 44    | 37    | 30    | 33    | 48    | 31    | 53    | 42    | 37    | 40    | 47    | 60    | 55    | 60    | 53    | 51    | 59    | 56    | 59    | 62    | 55    | 49    | 64    | 60    | 63    | 44    | 49    | 59    | 53    | 50    | 50.1  |
| Emporium.....     | Maximum | 68    | 61    | 57    | 69    | 60    | 74    | 75    | 73    | 75    | 77    | 83    | 85    | 83    | 83    | 77    | 82    | 85    | 89    | 91    | 84    | 85    | 83    | 69    | 83    | 80    | 75    | 77    | 76    | 70    | 78    | 76.9  |
|                   | Minimum | 48    | 35    | 31    | 35    | 46    | 36    | 45    | 52    | 39    | 40    | 46    | 52    | 63    | 58    | 54    | 59    | 60    | 57    | 62    | 64    | 58    | 55    | 56    | 62    | 62    | 50    | 59    | 57    | 48    | 48    | 51.4  |
| Erie.....         | Maximum | 63    | 52    | 56    | 65    | 58    | 72    | 67    | 60    | 65    | 73    | 87    | 74    | 75    | 78    | 74    | 81    | 82    | 87    | 85    | 82    | 78    | 80    | 86    | 83    | 73    | 72    | 75    | 76    | 69    | 76    | 73.5  |
|                   | Minimum | 51    | 42    | 45    | 44    | 45    | 42    | 56    | 47    | 48    | 52    | 60    | 60    | 58    | 63    | 59    | 61    | 68    | 66    | 69    | 66    | 65    | 60    | 69    | 67    | 62    | 55    | 52    | 61    | 58    | 63    | 57.1  |
| Franklin.....     | Maximum | 66    | 60    | 60    | 71    | 61    | 76    | 75    | 76    | 80    | 84    | 85    | 82    | 84    | 78    | 77    | 83    | 89    | 95    | 91    | 89    | 85    | 89    | 83    | 89    | 70    | 78    | 80    | 77    | 74    | 79    | 78.9  |
|                   | Minimum | 51    | 37    | 32    | 38    | 43    | 34    | 42    | 46    | 42    | 44    | 48    | 58    | 62    | 59    | 55    | 58    | 62    | 60    | 61    | 61    | 59    | 50    | 56    | 60    | 62    | 48    | 51    | 52    | 56    | 49    | 51.2  |
| Freeland.....     | Maximum | 78    | 59    | 58    | 68    | 68    | 70    | 78    | 70    | 74    | 76    | 83    | 82    | 85    | 86    | 77    | 82    | 85    | 87    | 88    | 83    | 83    | 84    | 85    | 81    | 81    | 74    | 75    | 71    | 69    | 75    | 77.2  |
|                   | Minimum | 53    | 40    | 37    | 40    | 52    | 40    | 56    | 45    | 44    | 50    | 54    | 62    | 64    | 68    | 62    | 60    | 65    | 63    | 69    | 64    | 63    | 60    | 65    | 62    | 67    | 56    | 52    | 59    | 56    | 52    | 56.0  |
| Gettysburg.....   | Maximum | 86    | 77    | 68    | 73    | 75    | 77    | 85    | 81    | 74    | 77    | 83    | 85    | 89    | 90    | 81    | 87    | 89    | 93    | 94    | 89    | 90    | 88    | 89    | 83    | 86    | 81    | 78    | 76    | 77    | 83    | 82.8  |
|                   | Minimum | 62    | 47    | 44    | 42    | 54    | 50    | 54    | 65    | 51    | 50    | 48    | 56    | 65    | 67    | 64    | 59    | 62    | 62    | 68    | 66    | 65    | 63    | 71    | 70    | 67    | 63    | 57    | 61    | 63    | 53    | 59.0  |
| Greensburg.....   | Maximum | 76    | 65    | 63    | 69    | 72    | 77    | 82    | 73    | 77    | 79    | 83    | 84    | 86    | 82    | 79    | 86    | 84    | 90    | 90    | 85    | 87    | 91    | 89    | 90    | 82    | 80    | 83    | 78    | 78    | 82    | 80.7  |
|                   | Minimum | 56    | 42    | 35    | 38    | 47    | 42    | 56    | 56    | 49    | 48    | 52    | 58    | 65    | 64    | 60    | 56    | 61    | 58    | 64    | 62    | 62    | 62    | 65    | 65    | 67    | 54    | 53    | 60    | 47    | 42    | 54.5  |
| Grove City.....   | Maximum | 75    | 61    | 56    | 68    | 65    | 73    | 76    | 71    | 74    | 77    | 82    | 81    | 82    | 80    | 75    | 81    | 83    | 83    | 89    | 84    | 89    | 86    | 80    | 85    | 74    | 75    | 76    | 75    | 70    | 76    | 76.7  |
|                   | Minimum | 52    | 40    | 35    | 34    | 52    | 36    | 51    | 50    | 47    | 46    | 49    | 61    | 59    | 55    | 58    | 58    | 62    | 59    | 64    | 64    | 61    | 50    | 49    | 60    | 61    | 49    | 49    | 59    | 55    | 51    | 52.5  |
| Hamburg.....      | Maximum | 89    | 78    | 62    | 71    | 72    | 76    | 83    | 79    | 80    | 80    | 85    | 88    | 90    | 90    | 78    | 88    | 84    | 93    | 93    | 91    | 88    | 90    | 90    | 87    | 86    | 80    | 80    | 80    | 80    | 80    | 83.0  |
|                   | Minimum | 54    | 39    | 40    | 37    | 45    | 47    | 48    | 48    | 45    | 44    | 44    | 52    | 59    | 64    | 63    | 56    | 58    | 51    | 64    | 63    | 63    | 62    | 65    | 65    | 71    | 62    | 53    | 58    | 62    | 54    | 54.6  |
| Harrisburg.....   | Maximum | 76    | 68    | 62    | 73    | 73    | 76    | 84    | 65    | 74    | 77    | 85    | 84    | 88    | 88    | 80    | 85    | 92    | 94    | 94    | 89    | 87    | 90    | 86    | 81    | 84    | 80    | 80    | 78    | 77    | 82    | 81.1  |
|                   | Minimum | 55    | 47    | 44    | 48    | 56    | 52    | 57    | 51    | 52    | 51    | 53    | 61    | 66    | 69    | 66    | 63    | 66    | 65    | 69    | 67    | 66    | 63    | 66    | 67    | 69    | 65    | 63    | 64    | 64    | 59    | 60.1  |
| Hawley.....       | Maximum | 79    | 62    | 62    | 69    | 69    | 74    | 78    | 73    | 75    | 76    | 86    | 87    | 88    | 90    | 80    | 86    | 89    | 92    | 92    | 86    | 87    | 90    | 87    | 83    | 87    | 79    | 81    | 77    | 78    | 76    | 80.6  |
|                   | Minimum | 53    | 36    | 31    | 33    | 40    | 37    | 40    | 48    | 40    | 41    | 40    | 52    | 60    | 58    | 64    | 52    | 55    | 53    | 59    | 61    | 61    | 55    | 61    | 65    | 67    | 56    | 50    | 54    | 58    | 42    | 50.7  |
| Huntingdon.....   | Maximum | 86    | 71    | 68    | 74    | 74    | 78    | 83    | 74    | 75    | 80    | 87    | 90    | 89    | 90    | 85    | 88    | 85    | 95    | 97    | 90    | 92    | 91    | 92    | 88    | 84    | 81    | 83    | 81    | 79    | 85    | 83.9  |
|                   | Minimum | 56    | 41    | 33    | 35    | 42    | 41    | 45    | 55    | 46    | 44    | 46    | 49    | 63    | 62    | 60    | 51    | 57    | 59    | 60    | 63    | 62    | 58    | 62    | 65    | 68    | 54    | 52    | 60    | 53    | 47    | 53.0  |
| Johnstown.....    | Maximum | 75    | 72    | 65    | 73    | 75    | 80    | 81    | 74    | 81    | 84    | 88    | 87    | 92    | 88    | 83    | 88    | 85    | 94    | 92    | 85    | 90    | 92    | 90    | 88    | 79    | 80    | 86    | 81    | 74    | 85    | 83.1  |
|                   | Minimum | 59    | 44    | 38    | 39    | 45    | 46    | 49    | 60    | 50    | 54    | 49    | 53    | 67    | 68    | 61    | 54    | 62    | 59    | 64    | 65    | 62    | 54    | 67    | 64    | 65    | 58    | 55    | 61    | 58    | 50    | 56.0  |
| Lancaster.....    | Maximum | 91    | 78    | 72    | 72    | 74    | 78    | 87    | 65    | 76    | 78    | 86    | 85    | 91    | 90    | 82    | 90    | 95    | 97    | 92    | 90    | 86    | 86    | 88    | 90    | 85    | 83    | 78    | 81    | 84    | 84    | 84.0  |
|                   | Minimum | 55    | 40    | 41    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

Vol. XXXIV. JULY, 1929. No. 7

## GENERAL SUMMARY.

The temperatures for July averaged near the normal with no unusual extremes. The rainfall averaged less than two-thirds of the normal and was very unevenly distributed. In general the rains were heaviest in the northwestern quarter of the State, but were light near Lake Erie. At the end of the month a drought had developed in many places sufficient to nearly stop the growth of crops, while pastures were beginning to turn brown. Wheat harvest was nearly finished during the month, and considerable threshing was done. Yields were fair to good but in many instances they were less than was expected as the heavy straw and large heads of grain had indicated better than an average crop. Oats harvest was in full swing at the end of the month with considerably less than a normal crop in prospect. Early corn was bearing, and was generally fair to good, while late fields were being seriously stunted by the drought. Truck crops of all kinds were needing rain. The month was marked by about the usual number of damaging local storms with no very heavy losses in any part of the State. Minor damage by lightning was reported from nearly all parts of the State, some stock being killed and several barns being struck and burned, but only one human life was lost as far as known. Harry Sims, a farmer in Washington County was killed on the 24th. The greatest property damage was in Lancaster County where a loss estimated at \$28,000 was sustained on two farms. The greatest damage by wind occurred as an accompaniment of heavy thunderstorms in Wayne County on the 24th, many orchards being seriously damaged and many trees torn up by the roots. Telegraph and telephone wires were torn down, and minor damage was done to buildings.

## TEMPERATURE.

The mean temperature of the State as shown by reports from 86 stations, was 71.8°, which is 0.1° lower than the July normal. The highest monthly mean was 77.2° at Holtwood, and the lowest was 64.8° at Ridgway. The highest temperature recorded during the month was 99°, at Carlisle and Hyndman on the 28th, while the lowest was 33° at Brookville on the 20th. The greatest daily range of temperature was 51° at Muncy Valley on the 20th.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations taken at 132 well-distributed stations, was 2.81 inches, which is 1.54 inches less than the normal for the month. The greatest monthly amount was 6.97 inches at Franklin, and the least, 0.19 inch, fell at Stroudsburg. The greatest amount recorded in any 24 consecutive hours was 3.14 inches, at Creek-side on the 24-25th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 344.1                   | 461.4                    | 75                     | 70               | 66       | 66      | 7,845                    | 10.5                        | 38        | sw.       |
| Harrisburg.....   | 353.9                   | 455.2                    | 78                     | 72               | 51       | 60      | 8,686                    | 5.0                         | 27        | w.        |
| Philadelphia..... | 285.5                   | 455.2                    | 63                     | 71               | 50       | 58      | 8,269                    | 11.0                        | 36        | s.        |
| Pittsburgh.....   | 326.1                   | 458.3                    | 71                     | 75               | 52       | 57      | 6,198                    | 8.3                         | 33        | w.        |
| Reading.....      | 285.3                   | 455.2                    | 63                     | 67               | 47       | 58      | 3,566                    | 4.8                         | 20        | sw.       |
| Scranton.....     | 346.6                   | 458.3                    | 76                     | 69               | 47       | 54      | 4,325                    | 5.8                         | 23        | sw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR JULY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 69.2        | 97      | 38     | 3.45          | 7.10     | 1.40  | .....       | .....         | .....  | .....                  |
| 1889..... | 71.6        | 96      | 39     | 6.80          | 15.02    | 1.04  | .....       | .....         | .....  | .....                  |
| 1890..... | 70.7        | 101     | 33     | 3.52          | 6.40     | 0.70  | 13          | 11            | 7      | 8                      |
| 1891..... | 67.8        | 97      | 34     | 6.32          | 11.61    | 2.63  | 11          | 10            | 10     | 13                     |
| 1892..... | 73.1        | 103     | 38     | 3.93          | 8.59     | 2.15  | 15          | 11            | 5      | 10                     |
| 1893..... | 72.1        | 102     | 36     | 3.15          | 6.27     | 1.58  | 15          | 12            | 4      | 10                     |
| 1894..... | 73.8        | 103     | 31     | 2.32          | 5.96     | 0.53  | 15          | 11            | 5      | 7                      |
| 1895..... | 69.1        | 102     | 34     | 3.24          | 6.18     | 1.16  | 12          | 12            | 7      | 9                      |
| 1896..... | 72.8        | 98      | 40     | 6.89          | 15.59    | 3.04  | 10          | 11            | 10     | 14                     |
| 1897..... | 73.4        | 103     | 41     | 6.26          | 14.51    | 2.10  | 10          | 11            | 10     | 14                     |
| 1898..... | 74.8        | 107     | 33     | 3.36          | 6.29     | 1.15  | 12          | 12            | 7      | 9                      |
| 1899..... | 72.3        | 101     | 35     | 3.91          | 8.24     | 1.53  | 12          | 11            | 8      | 10                     |
| 1900..... | 74.0        | 104     | 35     | 4.86          | 8.26     | 1.81  | 14          | 12            | 5      | 11                     |
| 1901..... | 76.4        | 107     | 45     | 3.88          | 7.34     | 1.52  | 10          | 13            | 8      | 11                     |
| 1902..... | 71.8        | 99      | 41     | 6.04          | 12.35    | 2.11  | 10          | 12            | 9      | 15                     |
| 1903..... | 71.2        | 98      | 35     | 5.36          | 8.81     | 1.76  | 13          | 12            | 6      | 12                     |
| 1904..... | 70.6        | 99      | 34     | 4.68          | 9.19     | 1.92  | 12          | 11            | 8      | 13                     |
| 1905..... | 72.6        | 99      | 39     | 4.87          | 9.78     | 2.49  | 10          | 12            | 9      | 15                     |
| 1906..... | 71.3        | 95      | 38     | 4.31          | 8.98     | 1.41  | 12          | 13            | 6      | 10                     |
| 1907..... | 71.5        | 96      | 34     | 3.84          | 9.46     | 1.01  | 15          | 12            | 4      | 10                     |
| 1908..... | 73.9        | 104     | 39     | 4.81          | 9.57     | 2.15  | 14          | 12            | 5      | 11                     |
| 1909..... | 69.7        | 98      | 34     | 2.14          | 4.50     | 0.75  | 16          | 11            | 4      | 7                      |
| 1910..... | 72.8        | 99      | 41     | 2.42          | 5.15     | 0.45  | 16          | 11            | 4      | 7                      |
| 1911..... | 73.7        | 105     | 36     | 2.81          | 7.41     | 0.90  | 16          | 11            | 4      | 8                      |
| 1912..... | 71.3        | 100     | 36     | 5.29          | 12.65    | 1.04  | 12          | 11            | 8      | 11                     |
| 1913..... | 71.8        | 101     | 40     | 4.16          | 8.00     | 0.82  | 15          | 10            | 6      | 11                     |
| 1914..... | 71.8        | 101     | 38     | 4.19          | 10.29    | 1.10  | 12          | 11            | 8      | 12                     |
| 1915..... | 70.7        | 98      | 40     | 5.28          | 12.30    | 1.82  | 10          | 13            | 8      | 15                     |
| 1916..... | 74.3        | 98      | 41     | 4.45          | 12.41    | 0.39  | 14          | 10            | 7      | 10                     |
| 1917..... | 72.1        | 105     | 40     | 4.33          | 9.76     | 1.90  | 12          | 12            | 7      | 13                     |
| 1918..... | 70.1        | 99      | 35     | 3.05          | 9.96     | 0.77  | 16          | 10            | 5      | 9                      |
| 1919..... | 72.6        | 104     | 34     | 5.90          | 14.58    | 1.70  | 16          | 8             | 7      | 11                     |
| 1920..... | 69.5        | 96      | 33     | 4.37          | 10.70    | 1.27  | 15          | 10            | 6      | 11                     |
| 1921..... | 75.9        | 104     | 45     | 4.13          | 9.19     | 1.23  | 19          | 9             | 3      | 10                     |
| 1922..... | 71.9        | 98      | 38     | 3.68          | 7.58     | 1.45  | 14          | 10            | 7      | 9                      |
| 1923..... | 71.0        | 100     | 32     | 4.24          | 9.86     | 0.92  | 15          | 9             | 7      | 11                     |
| 1924..... | 69.7        | 97      | 34     | 3.42          | 7.12     | 0.71  | 17          | 10            | 4      | 9                      |
| 1925..... | 70.5        | 101     | 32     | 5.57          | 14.95    | 1.54  | 13          | 11            | 7      | 12                     |
| 1926..... | 71.8        | 105     | 35     | 3.82          | 10.63    | 1.14  | 15          | 9             | 7      | 10                     |
| 1927..... | 71.7        | 100     | 25     | 4.97          | 11.82    | 1.81  | 14          | 11            | 6      | 12                     |
| 1928..... | 72.8        | 96      | 40     | 5.44          | 11.81    | 2.37  | 16          | 9             | 6      | 13                     |
| 1929..... | 71.8        | 99      | 33     | 2.81          | 6.97     | 0.19  | 18          | 9             | 4      | 8                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
|                   |                   |            |               |      |              |      |             |
| Port Jervis.....  | Delaware.....     | 2.2        | 3.1           | 1    | 1.5          | 29   | 18          |
| Phillipsburg..... | Delaware.....     | 1.4        | 2.7           | 1    | 0.8          | 17   | 22          |
| Mauch Chunk.....  | Lehigh.....       | -3.5       | -3.2          | 1    | -4.1         | 31   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 2.4        | 3.0           | 1    | 1.8          | 30   | 20          |
| Williamsport..... | Susquehanna.....  | 1.3        | 3.1           | 12   | 0.4          | 25   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.6        | 4.1           | 2    | 3.3          | 25   | 17          |
| Greensboro.....   | Monongahela.....  | 10.7       | 12.2          | 16   | 10.2         | 25   | 30          |
| West Newton.....  | Youghiogheny..... | 0.7        | 2.6           | 1    | 0.3          | 23   | 20          |
| Lock No. 4.....   | Monongahela.....  | 13.1       | 14.5          | 17   | 12.4         | 29   | 31          |
| Pittsburgh.....   | Ohio.....         | 10.9       | 12.8          | 11   | 9.6          | 23   | 25          |
| Beaver Dam.....   | Ohio.....         | 7.9        | 10.5          | 12   | 7.0          | 26   | 30          |



## Climatological Data for July, 1929

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown          | Lehigh       | 254             | 17                      | 73.6                         | .....                     | 96      | 28    | 47     | 3     | 35                       | 1.83  | -3.22                     | 1.57                 | 0                         | 4                            | 25    | 4                            | 2         | sw.        | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 42                      | 70.4                         | -0.7                      | 92      | 28    | 38     | 20    | 37                       | 2.18  | -1.09                     | 1.40                 | 0                         | 10                           | 22    | 6                            | 3         | w.         | F. E. Rooney.               |
| Arendtsville       | Adams        | 700             | 5                       | 73.2                         | .....                     | 98      | 28    | 46     | 16    | 39                       | 0.88  | .....                     | 0.45                 | 0                         | 6                            | 26    | 2                            | 3         | n.         | Dr. S. W. Frost.            |
| Bellefonte         | Center       | 1,050           | 24                      | 68.4                         | .....                     | 94      | 28    | 35     | 20    | 42                       | 1.51  | -2.57                     | 0.52                 | 0                         | 8                            | 8     | 17                           | 6         | w.         | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 45                      | 74.9                         | +0.2                      | 96      | 28    | 50     | 3     | 36                       | 2.24  | -2.32                     | 1.80                 | 0                         | 5                            | 24    | 1                            | 6         | sw.        | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 62                      | 74.6                         | -0.2                      | 99      | 28    | 44     | 16    | 43                       | 1.65  | -2.21                     | 0.48                 | 0                         | 9                            | 25    | 3                            | 3         | se.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 32                      | 72.4                         | -0.3                      | 98      | 28    | 40     | 20    | 44                       | 1.90  | -1.87                     | 0.86                 | 0                         | 6                            | 24    | 5                            | 2         | .....      | H. H. Yetter.               |
| Center Hall        | Center       | 1,272           | 33                      | 68.1                         | -3.3                      | 94      | 28    | 36     | 20    | 48                       | 1.76  | -2.13                     | 0.55                 | 0                         | 6                            | 25    | 4                            | 2         | .....      | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 29                      | 72.4                         | -2.3                      | 97      | 28    | 42     | 20    | 38                       | 1.74  | -1.54                     | 1.07                 | 0                         | 7                            | 14    | 13                           | 4         | sw.        | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 19                      | 70.7                         | -0.8                      | 95      | 28    | 36     | 21    | 44                       | 3.60  | -0.40                     | 1.28                 | 0                         | 9                            | 20    | 10                           | 1         | w.         | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 41                      | 73.4                         | -1.3                      | 95      | 28    | 45     | 4     | 36                       | 3.21  | -1.81                     | 1.32                 | 0                         | 11                           | 17    | 10                           | 4         | sw.        | Prof. W. T. Gordon.         |
| Colebrook          | Lebanon      | 560             | 19                      | 70.6                         | -1.9                      | 92      | 28    | 43     | 3     | 37                       | 3.15  | -1.52                     | 0.91                 | 0                         | 11                           | 24    | 4                            | 3         | sw.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 41                      | 67.8                         | -2.4                      | 88      | 28    | 38     | 20    | 34                       | 5.62  | +1.18                     | 1.85                 | 0                         | 11                           | 19    | 10                           | 2         | w.         | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 28                      | 73.0                         | -1.0                      | 93      | 28    | 47     | 3     | 33                       | 2.39  | -2.15                     | 1.01                 | 0                         | 6                            | 19    | 8                            | 4         | sw.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 14                      | 70.2                         | .....                     | 89      | 28    | 44     | 20    | 27                       | 2.42  | .....                     | 2.26                 | 0                         | 7                            | 10    | 17                           | 4         | sw.        | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 22                      | 74.1                         | +0.5                      | 95      | 28    | 46     | 3     | 37                       | 1.24  | -3.14                     | 0.57                 | 0                         | 7                            | 22    | 5                            | 4         | s.         | Prof. N. W. Swayne.         |
| Gettysburg         | Adams        | 553             | 55                      | 74.0                         | 0.0                       | 96      | 28    | 48     | 20    | 34                       | 2.85  | -0.77                     | 1.06                 | 0                         | 10                           | 18    | 6                            | 7         | s.         | Dr. Henry Stewart.          |
| Gordon             | Schuylkill   | 840             | 25                      | 69.7                         | -0.5                      | 93      | 28    | 38     | 3     | 43                       | 2.47  | -2.50                     | 1.30                 | 0                         | 5                            | 23    | 5                            | 3         | w.         | Capt. J. G. Johnson.        |
| Gouldsboro         | Wayne        | 1,875           | 5                       | 65.4                         | .....                     | 90      | 28    | 34     | 3     | 44                       | 1.87  | -3.80                     | 1.68                 | 0                         | 6                            | 25    | 4                            | 2         | w.         | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 36                      | 71.6                         | -2.3                      | 94      | 28    | 43     | 3     | 42                       | 1.66  | -3.15                     | 0.95                 | 0                         | 6                            | 22    | 2                            | 7         | w.         | State Sanatorium.           |
| Hanover            | York         | 600             | 25                      | 74.5                         | -1.0                      | 96      | 28    | 49     | 3     | 30                       | 2.01  | -2.46                     | 0.64                 | 0                         | 7                            | 24    | 3                            | 4         | s.         | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 59                      | 73.9                         | -0.9                      | 95      | 28    | 54     | 21    | 29                       | 3.01  | -0.82                     | 1.05                 | 0                         | 10                           | 11    | 14                           | 6         | sw.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 10                      | 69.4                         | .....                     | 95      | 28    | 39     | 3     | 42                       | 1.68  | .....                     | 1.00                 | 0                         | 5                            | 22    | 8                            | 1         | w.         | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 14                      | 77.2                         | .....                     | 97      | 28    | 54     | 4     | 27                       | 1.83  | -2.67                     | 0.87                 | 0                         | 7                            | 17    | 10                           | 4         | .....      | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 41                      | 71.8                         | -0.4                      | 97      | 28    | 37     | 20    | 44                       | 1.78  | -2.01                     | 1.10                 | 0                         | 10                           | 13    | 10                           | 8         | sw.        | Prof. H. A. Conner.         |
| Hyndman            | Bedford      | 977             | 18                      | 73.4                         | +1.4                      | 99      | 28    | 41     | 20    | 49                       | 0.69  | -2.42                     | 0.31                 | 0                         | 6                            | 11    | 9                            | 11        | .....      | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 41                      | 72.4                         | -1.0                      | 97      | 28    | 43     | 26    | 39                       | 2.98  | -0.94                     | 0.98                 | 0                         | 9                            | 26    | 2                            | 3         | s.         | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 31                      | 68.8                         | -1.4                      | 93      | 28    | 38     | 20    | 37                       | 3.40  | -0.90                     | 0.85                 | 0                         | 8                            | 21    | 8                            | 2         | .....      | C. P. Darling.              |
| Lebanon            | Lebanon      | 460             | 88                      | 73.4                         | -0.2                      | 94      | 28    | 48     | 3     | 36                       | 4.22  | -0.05                     | 1.73                 | 0                         | 10                           | 21    | 9                            | 1         | sw.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 54                      | 74.6                         | +3.1                      | 97      | 28    | 41     | 20    | 50                       | 1.83  | -2.14                     | 0.67                 | 0                         | 7                            | 15    | 11                           | 5         | w.         | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 39                      | 73.4                         | +0.1                      | 97      | 28    | 42     | 20    | 39                       | 1.46  | -2.54                     | 0.46                 | 0                         | 8                            | 19    | 12                           | 0         | w.         | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 14                      | 70.8                         | -1.0                      | 94      | 28    | 38     | 3     | 46                       | 4.89  | 0.00                      | 2.41                 | 0                         | 6                            | 21    | 8                            | 2         | nw.        | Susquehanna Collieries Co.  |
| Mauch Chunk        | Carbon       | 600             | 38                      | 70.7                         | -1.6                      | 96      | 29    | 40     | 4     | 37                       | 2.18  | -2.92                     | 1.94                 | 0                         | 3                            | 22    | 5                            | 4         | w.         | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 25                      | 72.5                         | -0.2                      | 97      | 28    | 41     | 20    | 44                       | 1.14  | -2.97                     | 0.38                 | 0                         | 6                            | 20    | 6                            | 5         | w.         | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 26                      | 67.3                         | -0.9                      | 92      | 28    | 42     | 3     | 41                       | 2.84  | -1.42                     | 0.75                 | 0                         | 7                            | 20    | 7                            | 4         | sw.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 66.7                         | +0.5                      | 89      | 28    | 38     | 3     | 30                       | 3.02  | -2.14                     | 1.46                 | 0                         | 7                            | 24    | 3                            | 4         | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 17                      | 70.0                         | +0.3                      | 94      | 28    | 40     | 20    | 51                       | 0.95  | -4.02                     | 0.30                 | 0                         | 5                            | 23    | 4                            | 4         | w.         | H. O. Hacker.               |
| Narberth           | Montgomery   | 300             | 10                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      | Charles Decker.             |
| Neshaminy Falls    | Bucks        | 60              | 40                      | 73.2                         | +0.1                      | 96      | 28    | 45     | 3     | 37                       | 1.62  | .....                     | 0.45                 | 0                         | 7                            | 18    | 9                            | 4         | s.         | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 12                      | 71.2                         | .....                     | 94      | 28    | 41     | 3     | 36                       | 2.09  | .....                     | 1.80                 | 0                         | 7                            | 15    | 13                           | 3         | sw.        | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 58                      | 76.8                         | +0.6                      | 93      | 28    | 58     | 20    | 23                       | 1.53  | -2.62                     | 0.65                 | 0                         | 9                            | 8     | 14                           | 9         | sw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 5                       | 77.1                         | .....                     | 94      | 8     | 57     | 3     | 23                       | 1.63  | .....                     | 0.54                 | 0                         | 9                            | 11    | 14                           | 6         | .....      | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 13                      | 75.7                         | 0.0                       | 95      | 8     | 54     | 16    | 31                       | 1.20  | -4.18                     | 0.37                 | 0                         | 7                            | 11    | 7                            | 13        | .....      | Commandant, Navy Yard.      |
| Phila-Point Breeze | Philadelphia | 90              | 4                       | 76.8                         | .....                     | 97      | 29    | 56     | 3     | 25                       | 1.41  | .....                     | 0.58                 | 0                         | 7                            | 13    | 5                            | 13        | sw.        | Atlantic Refining Co.       |
| Phoenixville       | Chester      | 100             | 18                      | 76.0                         | +1.5                      | 98      | 30    | 47     | 3     | 37                       | 2.18  | -2.86                     | 0.88                 | 0                         | 6                            | 22    | 9                            | 0         | s.         | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 44                      | 72.5                         | 0.0                       | 98      | 28    | 42     | 3     | 43                       | 1.80  | -3.02                     | 1.02                 | 0                         | 10                           | 21    | 6                            | 4         | sw.        | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 74.6                         | -0.9                      | 95      | 28    | 53     | 3     | 29                       | 2.10  | -2.16                     | 1.11                 | 0                         | 8                            | 13    | 11                           | 7         | sw.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 34                      | 71.6                         | -0.1                      | 93      | 28    | 46     | 20    | 36                       | 1.06  | -2.97                     | 0.58                 | 0                         | 5                            | 12    | 15                           | 4         | sw.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 39                      | 72.6                         | -0.9                      | 95      | 28    | 45     | 20    | 41                       | 1.12  | -3.26                     | 0.35                 | 0                         | 5                            | 19    | 9                            | 3         | sw.        | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 33                      | 75.6                         | .....                     | 95      | 29    | 49     | 3     | 31                       | 1.79  | -2.80                     | 0.93                 | 0                         | 10                           | 20    | 7                            | 4         | w.         | W. S. Guiles.               |
| State College      | Center       | 1,217           | 44                      | 70.2                         | -0.4                      | 93      | 27    | 40     | 20    | 41                       | 1.39  | -2.39                     | 0.69                 | 0                         | 6                            | 17    | 11                           | 3         | w.         | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 70.6                         | -0.7                      | 94      | 28    | 39     | 3     | 41                       | 0.19  | -5.61                     | 0.19                 | 0                         | 1                            | 15    | 14                           | 2         | sw.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 34                      | 69.4                         | -1.2                      | 94      | 28    | 42     | 20    | 40                       | 1.90  | -2.17                     | 0.83                 | 0                         | 10                           | 20    | 7                            | 4         | s.         | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 63                      | 68.7                         | -0.2                      | 93      | 28    | 36     | 20    | 45                       | 2.08  | -1.92                     | 0.65                 | 0                         | 8                            | 26    | 3                            | 2         | sw.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 91                      | 74.0                         | .....                     | 96      | 9     | 52     | 3     | 33                       | 2.04  | -2.79                     | 0.62                 | 0                         | 9                            | 14    | 12                           | 5         | w.         | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 42                      | 72.8                         | -0.3                      | 98      | 28    | 43     | 20    | 39                       | 1.32  | -2.64                     | 0.37                 | 0                         | 11                           | 17    | 9                            | 5         | nw.        | Miss Veronica E. April.     |
| York               | York         | 400             | 41                      | 73.5                         | -0.9                      | 97      | 28    | 44     | 3     | 40                       | 2.50  | -1.99                     | 0.86                 | 0                         | 6                            | 23    | 6                            | 2         | n.         | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam         | Beaver       | 700             | 36                      | 72.4                         | -1.5                      | 92      | 28    | 44     | 20    | 35                       | 3.95  | +0.08                     | 0.43                 | 0                         | 13                           | 4     | 16                           | 11        | sw.        | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 14                      | 72.0                         | .....                     | 96      | 28    | 40     | 20    | 38                       | 4.20  | .....                     | 0.96                 | 0                         | 13                           | 12    | 17                           | 2         | s.         | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 38                      | 66.8                         | -1.6                      | 92      | 28    | 33     | 20    | 47                       | 5.05  | +0.49                     | 1.50                 | 0                         | 5                            | 24    | 5                            | 2         | .....      | John Fawcett.               |
| Butler             | Butler       | 1,152           | 4                       | 71.8                         | .....                     | 96      | 31    | 41     | 21    | 46                       | 4.56  | .....                     | 1.60                 | 0                         | 6                            | 17    | 11                           | 3         | sw.        | William C. Faust.           |
| Claysville         | Washington   | 1,150           | 25                      | 72.4                         | -0.3                      | 93      | 28    | 40     | 3     | 46                       | 4.12  | -0.20                     | 1.00                 | 0                         | 15                           | 21    | 5                            | 5         | n.         | J. L. Melvin.               |
| Corry              | Erie         | 1,430           | 17                      | 69.2                         | -1.6                      | 90      | 28    | 38     | 20    | 42                       | 4.61  | +1.28                     | 0.95                 | 0                         | 14                           | 17    | 5                            | 9         | .....      | Ass'd Gas & Electric Co.    |
| Coudersport        | Potter       | 1,76            |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |



## Daily Precipitation for July, 1929

| Stations           | Drainage Basin | Day of month |     |   |      |      |     |      |     |     |      |     |     |     |     |     |    |     |      |      |    |    |     |     |      |      |      |     |      |     |     |      | Total |
|--------------------|----------------|--------------|-----|---|------|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|----|-----|------|------|----|----|-----|-----|------|------|------|-----|------|-----|-----|------|-------|
|                    |                | 1            | 2   | 3 | 4    | 5    | 6   | 7    | 8   | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16 | 17  | 18   | 19   | 20 | 21 | 22  | 23  | 24   | 25   | 26   | 27  | 28   | 29  | 30  | 31   |       |
| Atlantic Drainage. |                |              |     |   |      |      |     |      |     |     |      |     |     |     |     |     |    |     |      |      |    |    |     |     |      |      |      |     |      |     |     |      |       |
| Alentown\|\|\| | Lehigh         |              | .02 |   |      |      |     |      |     | .18 |      |     |     |     |     |     |    |     |      | 1.57 |    |    |     |     |      |      | .06  |     |      |     |     |      | 1.83  |
| Altoona            | Juniata        | .05          | .08 |   |      | .10  |     | .12  | .16 | .05 | T.   |     |     |     | .03 |     |    |     |      |      |    |    |     |     | .03  | 1.40 |      |     |      |     |     |      | 2.18  |
| Altoona\|\|\| | W. Br. Susq.   |              | .68 |   | .03  | .25  | .10 |      | .39 |     | .67  | .36 |     |     | .69 |     |    |     | .22  |      |    |    |     |     |      | .11  | .75  |     |      | .35 |     |      | 4.60  |
| Arden\| | Lower Susq.    | .07          |     |   |      | .23  |     |      |     | .03 |      |     |     |     |     |     |    |     | .05  |      |    |    |     |     |      | .45  |      |     | .05  |     |     | 0.88 |       |
| Baker's Summit     | Juniata        | .12          |     |   |      | .05  | .15 |      | .14 |     |      |     |     |     | .06 |     |    |     |      |      |    |    |     |     |      |      | .27  | .04 |      |     |     |      | 0.83  |
| Belleville***      | W. Br. Susq.   | T.           |     |   | .22  | T.   | T.  | T.   | .20 | T.  |      |     | .02 | .23 |     |     |    |     | .03  | T.   |    |    |     | T.  | .10  | .42  |      |     | .29  |     |     | 1.51 |       |
| Bethlehem          | Lehigh         | .01          | .06 |   |      | T.   |     |      | .31 | T.  |      |     |     |     |     |     |    |     | 1.80 |      |    |    |     |     |      | .06  |      |     | T.   |     |     | 2.24 |       |
| Blossville\|\| | Lower Susq.    | .30          |     |   |      | T.   | .06 |      | .05 | T.  |      |     |     | .02 |     | .05 |    |     |      |      |    |    |     |     | .50  | .24  |      |     |      |     |     | 1.22 |       |
| Carlisle           | Lower Susq.    | .10          |     |   | .02  |      |     |      | .23 | .22 |      |     |     |     |     | .13 |    |     |      |      |    |    |     | .10 | .28  |      |      |     | .09  |     |     | 1.65 |       |
| Catawissa\| | N. Br. Susq.   | T.           |     |   | .70  |      |     |      | .13 |     |      |     |     |     | .03 |     |    |     | .86  |      |    |    |     |     |      | .14  |      |     | .04  |     |     | 1.90 |       |
| Center Hall        | Susquehanna    | .01          |     |   |      |      |     |      | .55 |     |      |     |     |     | .44 |     |    |     | .10  |      |    |    |     |     |      | .52  |      |     | .14  |     |     | 1.76 |       |
| Chambersburg       | Potomac        | .18          |     |   | 1.07 | .01  |     | .11  |     |     |      |     |     |     |     |     |    |     | .12  |      |    |    |     |     |      | .10  |      | .15 |      |     |     | 1.74 |       |
| Clearfield         | W. Br. Susq.   | .12          |     |   | .40  |      | .02 | .40  | .16 | .06 |      | T.  | .26 |     |     |     |    |     | T.   |      |    |    |     |     |      | .90  |      |     | 1.28 |     |     | 3.60 |       |
| Colesville         | Lower Del.     | .15          |     |   | .03  | .04  |     |      | .03 | .39 |      |     |     |     | .03 |     |    |     | .77  |      |    |    | .13 |     |      | .09  | .23  |     | 1.32 |     |     | 3.21 |       |
| Colebrook          | Lower Susq.    | .26          | T.  |   | .05  |      | .13 | .53  | .10 | T.  |      |     |     |     | .27 |     |    |     | .91  |      |    |    | T.  |     | .11  | .26  | .45  |     | .08  |     |     | 3.15 |       |
| Conshohocken       | Schuylkill     | T.           | T.  |   | T.   | T.   |     | .20  | .30 | .07 | .36  |     |     |     | .15 |     |    |     | .82  |      |    |    | .05 |     | T.   | T.   |      | .15 |      |     |     | 1.40 |       |
| Cresskill          | Juniata        |              |     |   |      |      |     |      |     |     |      |     |     |     | .11 |     |    |     |      |      |    |    |     |     | 1.00 | 1.66 | .07  |     |      |     |     | 3.77 |       |
| Croylestown        | Lower Del.     | .18          | .07 |   | .08  |      |     |      | .17 | T.  |      |     |     |     | .18 |     |    |     | .88  |      |    |    | .01 |     |      | .26  |      |     | .26  |     |     | 2.09 |       |
| Croftwood\|\|\| | W. Br. Susq.   |              | .16 |   |      | .70  |     | .68  |     | .75 |      |     |     |     | .40 |     |    |     |      |      |    |    |     |     |      |      | .65  |     |      |     |     | 3.34 |       |
| Croftwood          | do.            | .07          |     |   | .01  | .60  | .03 | 1.25 | .75 | T.  | 1.85 |     | T.  | .15 | .05 |     |    |     | T.   |      |    |    |     |     |      | .83  |      |     | .03  |     |     | 5.62 |       |
| Croftwood          | Lower Susq.    | .12          | T.  |   | .02  | .39  |     |      |     |     |      |     |     |     |     |     |    |     | 1.01 |      |    |    |     |     |      | .22  | .63  |     |      |     |     | 2.39 |       |
| Croftwood          | N. Br. Susq.   |              | .20 |   | .05  | .04  |     |      |     | .10 |      |     |     |     |     |     |    |     | 2.48 |      |    |    |     |     |      | .78  |      |     | .52  |     |     | 4.17 |       |
| Croftwood          | Lehigh         |              | .02 |   | .04  |      | .02 | .02  | T.  |     |      |     |     |     | T.  |     |    |     | 2.26 |      |    |    |     |     |      | .04  |      |     |      | .02 |     | 2.42 |       |
| Croftwood          | Lower Del.     | .06          | T.  |   |      | .02  |     |      | .04 |     |      |     |     |     | .18 |     |    |     | .57  |      |    |    | T.  |     |      | .34  |      |     | .03  |     |     | 1.24 |       |
| Croftwood          | Potomac        | .30          | .03 |   | .57  | 1.06 | .18 | .07  |     | .09 |      |     |     |     | T.  |     |    |     | .05  |      |    |    | .02 |     |      | .22  |      |     | .35  |     |     | 2.85 |       |
| Croftwood          | Lower Susq.    | .05          |     |   | .05  |      | .37 | .05  |     | .09 | T.   |     |     |     |     |     |    |     | 1.00 |      |    |    |     |     |      | .51  |      |     | T.   |     |     | 2.12 |       |
| Croftwood          | Lower Susq.    | T.           |     |   |      |      | T.  |      | .36 | .03 |      |     |     |     |     |     |    |     | 1.30 |      |    |    |     |     |      | .75  | .30  |     |      |     |     | 2.74 |       |
| Croftwood          | Lehigh         |              |     |   |      |      | .02 |      | .02 |     | .02  |     |     |     | .04 |     |    |     | 1.68 |      |    |    |     |     |      | .16  |      |     | .31  |     | .10 | 1.87 |       |
| Croftwood          | Schuylkill     | .04          |     |   | .09  | .76  |     |      |     | .09 |      |     |     |     | .18 |     |    |     | .64  |      |    |    | .23 |     |      | .16  |      |     | .31  |     |     | 2.41 |       |
| Croftwood          | Schuylkill     | .08          |     |   | .02  |      |     |      |     | .09 |      |     |     |     |     | .95 |    |     |      |      |    |    |     |     |      | .39  | .03  |     |      |     |     | 1.56 |       |
| Croftwood          | Lower Susq.    | .33          | .14 |   |      | .46  |     |      | T.  |     |      |     |     | .26 |     |     |    |     | T.   |      |    |    | .06 |     | T.   | .12  |      |     | .64  |     |     | 2.01 |       |
| Croftwood          | do.            | .11          |     |   | .11  | .10  | T.  | .57  | .48 | T.  |      |     |     | .09 |     |     |    | .16 |      |      |    |    |     |     |      | .67  | .38  |     | .34  |     |     | 3.01 |       |
| Croftwood          | Upper Del.     |              |     |   | .03  |      |     |      |     | .38 |      |     |     | T.  |     |     |    |     | 1.00 |      |    |    |     |     |      | .11  |      |     | .06  |     |     | 1.58 |       |
| Croftwood          | Upper Del.     |              |     |   |      |      |     |      | T.  | .18 |      |     |     |     |     |     |    |     | 1.03 |      |    |    |     |     |      | .02  |      |     | T.   |     |     | 1.23 |       |
| Croftwood          | Lower Susq.    |              | .14 |   | .05  | .15  |     | .33  | T.  |     |      |     |     | T.  |     |     |    |     | 1.87 |      |    |    |     |     | T.   | .12  | T.   | .23 |      | .09 |     | 1.83 |       |
| Croftwood          | Juniata        | .02          |     |   | .03  | .02  | .14 |      | .02 | .01 | T.   |     | .26 | T.  |     |     |    |     |      |      |    |    |     |     | .15  | 1.10 |      |     | .03  |     |     | 1.78 |       |
| Croftwood          | Potomac        | .31          | T.  |   | .08  | .07  | .08 |      |     | .05 |      | .10 |     |     |     |     |    |     |      |      |    |    |     |     |      |      |      |     |      |     |     | 0.69 |       |
| Croftwood          | Upper Del.     |              |     |   |      |      |     |      | .12 |     |      |     |     |     | .03 |     |    |     | .98  |      |    |    | .05 |     |      | .25  |      |     |      |     |     | 1.65 |       |
| Croftwood          | Lower Susq.    | .40          |     |   | .24  |      |     |      |     |     |      |     |     |     |     |     |    |     |      |      |    |    |     |     |      | .57  | .52  |     |      |     |     | 2.98 |       |
| Croftwood          | Lehigh         | T.           |     |   |      |      |     | T.   | .15 |     |      |     |     |     |     |     |    |     | 1.16 |      |    |    |     |     |      |      | .08  |     |      | T.  |     | 1.39 |       |
| Croftwood          | N. Br. Susq.   | .10          |     |   | .30  |      | T.  | .44  | .10 | .85 |      |     |     |     |     | .40 |    |     |      |      |    |    |     |     |      | .73  |      |     | .48  |     |     | 3.40 |       |
| Croftwood          | Lower Susq.    | .39          |     |   | .02  | .05  |     | .29  | .05 | T.  |      |     |     |     | T.  |     |    |     | 1.31 |      |    |    | T.  | .02 |      | .05  | 1.73 |     | .31  |     |     | 4.22 |       |
| Croftwood          | W. Br. Susq.   | .04          |     |   |      | .21  |     |      |     |     |      |     |     | .04 |     | .06 |    |     |      |      |    |    | T.  |     |      | .67  | .64  |     | .17  |     |     | 1.83 |       |
| Croftwood          | do.            |              |     |   | .31  |      |     | .65  |     |     |      |     |     |     |     |     |    |     |      |      |    |    |     |     |      | .08  |      |     |      |     |     | 1.04 |       |
| Croftwood          | do.            | .01          |     |   | .42  |      |     | .03  |     | .13 |      |     |     |     | .01 |     |    |     | .07  |      |    |    |     |     |      |      | .33  |     |      | .46 |     |      | 1.46  |
| Croftwood          | Susquehanna    | .10          |     |   |      | .38  |     |      |     | .03 |      |     |     |     | T.  |     |    |     | 2.41 |      |    |    |     |     |      | .45  | 1.48 | T.  |      | T.  |     | 4.89 |       |
| Croftwood          | Lehigh         |              |     |   |      |      |     |      |     | .20 |      |     |     |     |     |     |    |     | 1.94 |      |    |    |     |     |      | .04  |      |     |      |     |     | 2.18 |       |
| Croftwood          | Juniata        | .03          |     |   |      | .10  |     |      |     | .31 |      |     |     |     | .14 |     |    |     |      |      |    |    |     |     |      | .38  | .18  |     |      |     |     | 1.14 |       |
| Croftwood          | N. Br. Susq.   | .48          |     |   | .20  |      |     |      |     | .42 |      |     |     |     |     |     |    |     | .20  | .49  |    |    |     |     |      |      | .75  |     |      | .30 |     |      | 2.84  |
| Croftwood          | N. Br. Susq.   |              |     |   | .48  |      | .05 | .24  |     | .85 |      |     | .22 |     |     | .03 |    |     |      | .10  |    |    |     |     |      | .18  |      |     | .49  |     |     | 2.64 |       |
| Croftwood          | Upper Del.     | .04          | T.  |   | 1.32 | .14  |     |      |     | .04 |      |     |     |     |     |     |    |     | 1.44 |      |    |    |     |     |      | .02  |      |     | .02  |     |     | 3.02 |       |
| Croftwood          | W. Br. Susq.   | .20          | T.  |   | .15  |      |     |      | .20 |     |      |     |     |     |     |     |    |     | .30  |      |    |    |     |     |      |      |      |     | .10  |     |     | 0.95 |       |
| Croftwood          | Lower Del.     |              |     |   |      |      |     |      |     |     |      |     |     |     |     |     |    |     |      |      |    |    |     |     |      |      |      |     |      |     |     |      |       |
| Croftwood          | Lower Del.     |              | .02 |   |      | .30  |     |      | T.  |     |      |     |     |     | .31 |     |    |     | .45  | .04  |    |    | T.  | T.  |      | T.   | .40  |     |      | .10 |     | 1.62 |       |
| Croftwood          | Lower Susq.    | .17          |     |   |      |      | .12 |      | .06 |     |      |     |     | .02 |     |     |    |     | .04  |      |    |    | .28 |     | .17  | .15  |      |     |      |     |     | 1.01 |       |
| Croftwood          | Lehigh         | .01          |     |   | .22  |      | .01 | .02  | T.  |     |      |     |     |     |     |     |    |     | 1.72 | .08  |    |    |     |     |      | .03  |      | .02 |      |     |     | 2.09 |       |
| Croftwood          | Upper Del.     |              |     |   |      |      | .03 |      |     | .26 |      |     |     |     |     |     |    |     | 1.15 |      |    |    |     |     |      |      | .02  |     |      |     |     | 1.46 |       |
| Croftwood          | Lower Del.     | .01          |     |   | .12  |      | .20 |      | T.  |     |      |     |     |     | .23 |     |    |     |      |      |    |    |     |     |      |      |      |     |      |     |     |      |       |



## Daily Precipitation for July, 1929—Continued from page 33

| Stations           | Drainage Basin    | Day of month |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      |      |      |     |      |      |      | Total |
|--------------------|-------------------|--------------|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|-----|----|----|-----|-----|-----|----|----|-----|------|------|------|------|-----|------|------|------|-------|
|                    |                   | 1            | 2   | 3   | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12  | 13  | 14  | 15  | 16 | 17 | 18  | 19  | 20  | 21 | 22 | 23  | 24   | 25   | 26   | 27   | 28  | 29   | 30   | 31   |       |
| Ohio Drainage.     |                   |              |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      |      |      |     |      |      |      |       |
| Beaver Dam\|\|\| | Ohio.....         | .02          | .13 |     |      | 1.43 |      | .08  | .62  | .01  | .55  | .01  |     |     |     |     |    |    |     | .39 |     |    |    |     |      | .13  | .03  |      |     | .54  | .01  | 3.95 |       |
| Beaver Falls\|\|\| | Beaver.....       | T.           | .01 |     |      | 1.05 |      | .02  | .29  |      | .65  | .01  |     | T.  |     |     |    |    |     | .19 |     |    |    |     |      | .23  | .05  |      |     | .33  | T.   | 2.83 |       |
| Bradford.....      | Allegheny.....    | .10          |     | .02 | .08  | .56  |      | .30  | .22  | .28  | .62  |      | .06 | .36 |     |     |    |    |     | .02 |     |    |    |     |      | .62  |      |      |     | .96  |      | 4.20 |       |
| Brookville.....    | do.....           |              |     | .75 |      |      | 1.50 | 1.05 |      | 1.00 | T.   |      |     |     |     |     |    |    |     | T.  |     |    |    |     |      |      |      |      |     | .75  |      | 5.05 |       |
| Butler.....        | Ohio.....         | .02          |     |     | 1.60 |      |      |      | .68  |      |      |      |     | T.  | .32 | .05 |    |    |     |     |     |    |    |     |      | 1.06 | 1.05 |      |     | .15  |      | 4.56 |       |
| Claysville.....    | do.....           | .06          | .03 |     | .77  |      | .03  | .97  | .05  | .25  |      |      | T.  | .32 | .05 |     |    |    |     | .03 | .06 |    |    |     | .09  | .40  | 1.00 |      | .01 |      |      | 4.12 |       |
| Cloett.....        | Allegheny.....    | .09          |     |     | 1.90 | .06  | .60  |      | .09  | .12  |      | .09  | .78 |     |     |     |    |    |     |     |     |    |    |     | .83  | .53  |      |      | .38 |      |      | 5.47 |       |
| Clymer\|\| | Conemaugh.....    |              | .08 |     | 1.01 |      | .37  | .48  | .16  |      |      | T.   |     | .12 |     |     |    |    |     |     |     |    |    |     | 1.78 | *    |      | .09  | T.  |      |      | 4.09 |       |
| Confluence\|\|\| | Youghiogheny..... | .40          |     |     | .40  | .35  |      | .10  |      | .09  |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .56  |      |     | .06  |      | 1.95 |       |
| Coraopolis\|\|\| | Ohio.....         | T.           | .21 |     | 1.88 |      | .64  | .70  | T.   | .21  |      |      | .41 |     |     |     |    |    |     | .16 |     |    |    |     |      |      | .76  |      |     | .02  | .03  | 5.02 |       |
| Corry.....         | Allegheny.....    | .21          |     |     | .24  | .30  | .61  | .81  | .95  | .11  | .18  |      | .11 | .03 | .23 |     |    |    |     | .09 |     |    |    |     |      |      | .42  |      | .32 |      |      | 4.61 |       |
| Coudersport.....   | do.....           |              |     |     | .07  | .56  | .36  | .70  |      | .10  | 1.21 |      |     | .13 | .55 |     |    |    |     | .31 |     |    |    |     |      | .55  |      |      | .28 |      |      | 4.82 |       |
| Creekside.....     | Allegheny.....    | T.           | .06 |     | 1.24 |      | .04  | .10  | .12  | .10  |      |      |     | .06 |     |     |    |    |     | T.  |     |    |    |     |      | 3.14 | .04  | 1.17 |     | .03  |      | 6.10 |       |
| Derry.....         | Conemaugh.....    | .33          |     |     | .40  |      | .12  | .11  | .14  | .20  |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      | .31  |      |      |     |      |      | 1.61 |       |
| Donora\|\|\| | Monongahela.....  | .22          | T.  |     | .73  |      |      | .45  | .62  | .10  |      |      |     | .02 |     |     |    |    |     |     | .04 |    |    |     |      |      | .62  | .04  |     |      |      | 2.84 |       |
| Ebensburg.....     | Conemaugh.....    | .12          |     |     | .30  |      | .45  | .25  | .04  | .28  |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      | .34  | 1.95 |      | .60 |      |      | 4.33 |       |
| Elk Lick.....      | Youghiogheny..... | .15          |     |     | .28  | .94  |      |      | .25  |      | .05  |      |     | .28 |     |     |    |    |     |     |     |    |    |     |      |      | .58  |      |     |      | .02  | 2.55 |       |
| Falls Creek.....   | Allegheny.....    |              |     |     | .86  |      | 1.07 |      |      | 1.50 |      | .03  |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .98  |      |     | .33  |      | 4.77 |       |
| Franklin\|\|\| | Allegheny.....    | .04          | .05 |     | .04  | 1.82 | .05  | .29  | 1.34 |      | .74  |      |     |     | .18 |     |    |    |     | .21 |     |    |    |     |      | 1.70 | .05  |      | .04 | .42  |      | 6.97 |       |
| Freeport\|\|\| | do.....           |              |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      |      |      |     |      |      | 1.88 |       |
| Greensboro.....    | Monongahela.....  |              | .08 |     | .18  | .08  | .52  |      | .17  | .11  | .10  |      |     |     | .13 |     |    |    |     | .02 |     |    |    | .01 |      |      |      | .48  |     |      | T.   | 1.81 |       |
| Greensburg.....    | Youghiogheny..... | .10          |     |     | .46  |      | .05  | .24  | .36  |      |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .57  | .03  |     |      |      | 3.94 |       |
| Greenville.....    | Beaver.....       | .04          | .08 | T.  | 1.56 | .03  | .25  | .12  | .12  | .12  |      | .24  | .01 |     |     |     |    |    |     | .02 |     |    |    |     | .04  | .56  |      | .15  | .15 | .45  |      | 6.54 |       |
| Grove City.....    | Beaver.....       |              |     | .24 | 2.00 | .18  | .09  | .70  | .38  | 1.52 |      |      |     | .13 |     |     |    |    |     | .07 |     |    |    |     |      | .20  | .09  | .13  | .03 | .78  |      |      |       |
| Herr's Isl. Dam\|\|\| | Ohio.....         | T.           | .11 |     |      |      | .03  | .56  | .02  | .95  |      |      | .37 | .03 |     |     |    |    |     | T.  |     |    |    |     |      |      |      | .21  | T.  |      | T.   | 2.28 |       |
| Ingram.....        | Ohio.....         | .09          | T.  |     | .98  | .04  | .17  | .39  | .50  | .26  |      |      | .09 |     |     |     |    |    |     | .03 |     |    |    |     |      |      | .25  |      |     |      |      | 2.80 |       |
| Irwin.....         | Youghiogheny..... | .10          | .06 |     | .35  |      | .09  | T.   | 1.82 | .27  |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .54  | .06  | T.  |      |      | 2.83 |       |
| Johnstown.....     | Conemaugh.....    | .17          |     |     | .21  | .06  | .29  | .02  | .09  | .04  |      |      |     | .02 |     |     |    |    |     |     |     |    |    |     |      |      | .50  | .01  |     |      |      | 1.41 |       |
| Kregar\|\|\| | Youghiogheny..... | .61          |     |     | .07  | .05  | .71  |      | .16  | .05  | .01  |      |     | T.  |     |     |    |    |     |     |     |    |    |     |      | 1.31 | T.   |      |     |      |      | 2.97 |       |
| Lock No. 4\|\|\| | Monongahela.....  |              | .16 |     | .50  |      | .62  | .02  | .25  | .23  |      |      |     |     | .01 |     |    |    |     | T.  |     |    |    |     |      |      |      | .15  |     |      |      | 1.94 |       |
| Lycippus.....      | Conemaugh.....    | .23          |     |     | .25  | .56  |      | T.   | .10  | .21  |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .67  | T.   |     |      |      | 2.02 |       |
| Meadville.....     | Allegheny.....    | .03          | .03 | T.  | 1.25 | .14  | .45  | .05  | .28  | .95  |      | .23  | .22 |     |     |     |    |    |     | T.  |     |    |    |     |      |      | .10  |      | .03 |      | 1.73 | 5.49 |       |
| Mount Lebanon..... | Ohio.....         | T.           |     |     | 1.00 |      | .14  | .48  | .47  | .55  |      |      | T.  |     |     |     |    |    |     |     |     |    |    |     |      |      | .63  |      |     |      |      | 3.27 |       |
| New Castle\|\|\| | Beaver.....       | .04          | .05 | .04 | 2.08 | .05  | .14  | .44  | .02  | 1.92 | .06  |      |     | .82 |     |     |    |    |     | .18 |     |    |    |     |      |      | .19  | .47  | .05 |      | .37  | 6.92 |       |
| Newell.....        | Monongahela.....  | .13          | .07 |     | .22  |      | .12  | .35  |      |      |      |      |     | .02 |     |     |    |    |     |     |     |    |    |     |      |      | .40  | .20  |     |      |      | 1.51 |       |
| Parkers Landing\|\|\| | Allegheny.....    | T.           | .08 |     | 1.60 | T.   | .20  | .62  |      | 2.00 | T.   |      |     | .20 |     |     |    |    |     | .16 |     |    |    |     |      |      | .38  | .03  |     | 1.04 |      | 6.31 |       |
| Pennline\|\|\| | Beaver.....       | .02          | .10 | .04 | .02  | 1.47 |      | .39  | .63  |      | .10  |      |     | .06 | .09 |     |    |    |     |     | .02 |    |    |     |      |      | .38  | .02  |     | 1.24 |      | 4.53 |       |
| Pittsburgh***      | Ohio.....         | .44          | T.  |     | 1.08 | .02  | .59  | .10  | .79  | .01  |      | .29  |     | T.  |     |     |    |    |     | T.  |     |    |    |     |      |      | .18  | T.   |     |      |      | 3.50 |       |
| Ridgway.....       | Allegheny.....    | .56          | T.  | T.  | .77  |      | .92  | .86  | .32  | 1.64 |      | .10  |     | .46 |     |     |    |    |     |     |     |    |    |     |      |      | .96  |      |     |      |      | 6.69 |       |
| Saltsburg\|\|\| | Conemaugh.....    |              | T.  |     | .69  |      | .07  | .38  | .02  | .41  |      | .50  |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .06  | .47  |     |      |      | 2.60 |       |
| Sharon\|\|\| | Beaver.....       |              |     |     | 2.08 | T.   |      | 1.32 |      | .51  | T.   |      | T.  | T.  |     |     |    |    |     | .03 |     |    |    |     |      |      | .19  | T.   | T.  |      | 1.04 | 5.17 |       |
| Somerset.....      | Youghiogheny..... |              |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      |      |      |     |      |      |      |       |
| Springdale\|\|\| | Allegheny.....    | .10          | .02 |     | .92  | .02  | .10  | .50  | .57  | .73  | .03  |      | .04 | T.  |     |     |    |    |     |     |     |    |    |     |      |      | .02  | .09  |     |      | .01  | 3.15 |       |
| Uniontown.....     | Monongahela.....  | .07          |     |     | .02  |      | .07  | .10  | .04  | .01  |      | 1.00 | .05 | T.  |     |     |    |    |     | T.  |     |    |    |     |      |      | .29  | .02  |     |      | .75  | 2.42 |       |
| Unity Reservoir\|\| | Youghiogheny..... | .12          |     |     | .41  |      | .15  | 1.18 | .25  | .12  |      |      |     | T.  |     |     |    |    |     |     |     |    |    |     |      |      |      | .63  | .13 |      |      | 3.02 |       |
| Vandergrift.....   | Conemaugh.....    | .05          |     |     | 1.21 | .04  | .35  | .04  | .20  | .13  |      | .01  |     |     |     |     |    |    |     |     |     |    |    |     |      |      |      | .65  |     |      | .01  | 2.69 |       |
| Warren.....        | Allegheny.....    |              | .04 |     | .99  | .10  | .50  | .44  | .50  |      |      |      | .15 | .16 |     |     |    |    | .08 |     |     |    |    |     |      |      | 1.46 |      |     | .03  | .65  | 5.10 |       |
| Westford\|\|\| | Beaver.....       | .12          |     |     | 1.75 |      | .45  |      | .68  |      | 1.50 | .20  |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .01  | .10  |     | .01  | .47  | 5.29 |       |
| West Newton\|\|\| | Youghiogheny..... |              | .17 |     | .74  |      | .12  | .15  | .62  | .10  |      |      |     |     | .08 |     |    |    |     |     |     |    |    |     |      |      |      | 1.08 | .07 |      |      | 3.13 |       |
| Zellenople\|\|\| | Ohio.....         |              |     |     | .78  |      |      | 1.63 |      |      |      | .50  |     |     |     |     |    |    |     |     |     |    |    |     |      |      | .31  | .84  |     |      | .96  | 5.02 |       |
| Lake Drainage.     |                   |              |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |    |     |     |     |    |    |     |      |      |      |      |     |      |      |      |       |
| Erie***            | Lake Erie.....    | .01          | .01 |     | .23  | .37  | .40  | .41  |      | T.   | .01  |      |     | T.  |     |     |    |    |     | .01 |     |    |    |     |      | T.   | .22  |      |     | .27  | .04  | .01  | 1.99  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

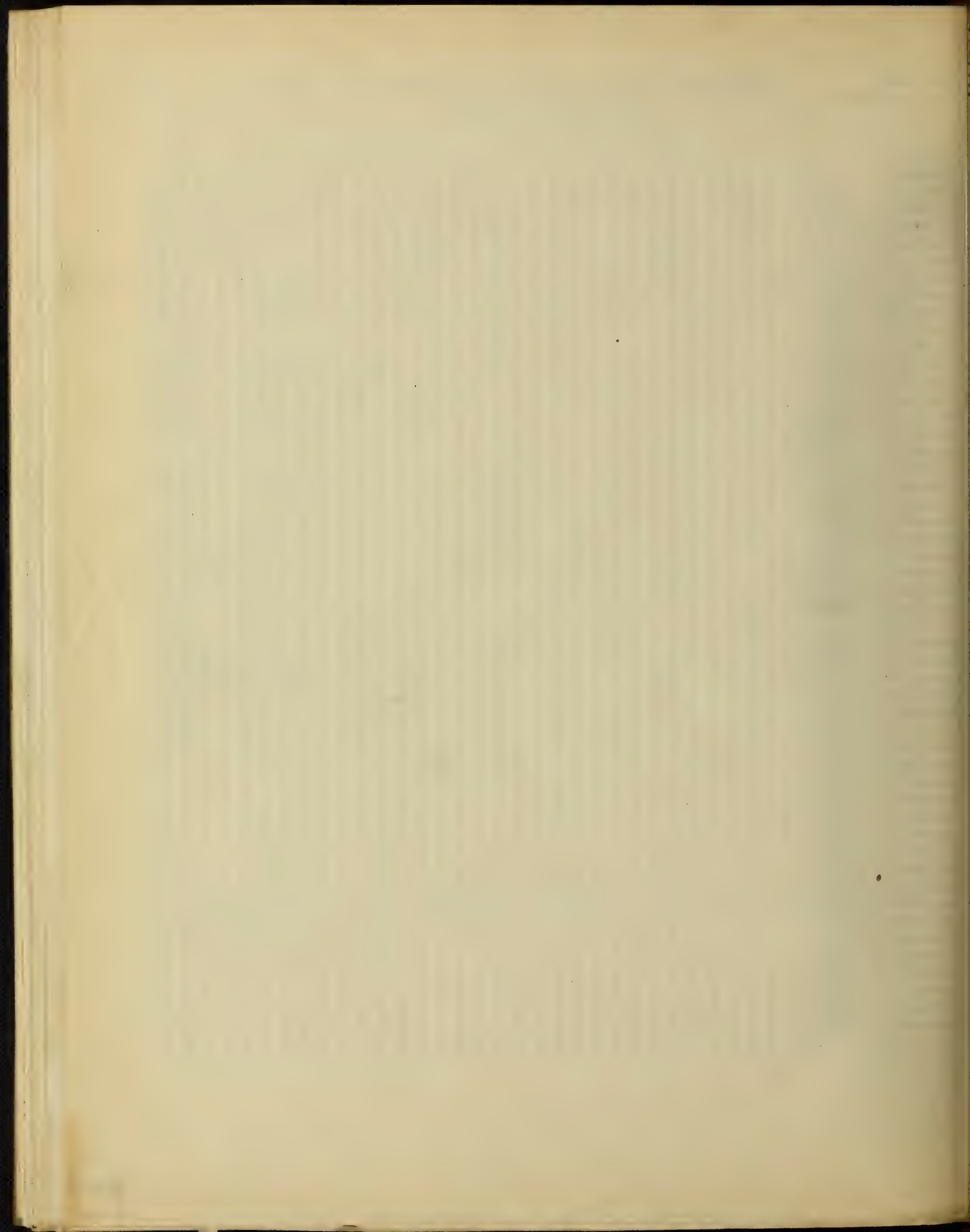
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Blosserville Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.



## Stations

| Stations          |         | 1  | 2  | 3  | 4  | 5     | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25    | 26    | 27    | 28 | 29 | 30   | 31    | Mean |      |
|-------------------|---------|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|----|----|------|-------|------|------|
| Allentown.....    | Maximum | 78 | 78 | 74 | 85 | 89    | 91 | 93 | 92 | 93 | 86 | 86 | 90 | 88 | 90 | 80 | 84 | 88 | 85 | 75 | 77 | 78 | 77 | 89 | 91 | 84    | 85    | 91    | 96 | 91 | 93   | 91    | 86.1 |      |
|                   | Minimum | 63 | 66 | 47 | 50 | 57    | 66 | 69 | 74 | 71 | 65 | 60 | 60 | 59 | 62 | 55 | 51 | 54 | 56 | 61 | 49 | 53 | 57 | 67 | 68 | 70    | 61    | 64    | 67 | 73 | 63   | 64    | 61.0 |      |
| Altoona.....      | Maximum | 72 | 72 | 70 | 84 | 81    | 85 | 87 | 85 | 89 | 78 | 81 | 80 | 86 | 83 | 77 | 80 | 85 | 77 | 69 | 75 | 80 | 79 | 86 | 89 | 78    | 85    | 88    | 92 | 86 | 88   | 88    | 82.4 |      |
|                   | Minimum | 65 | 58 | 43 | 50 | 61    | 60 | 62 | 69 | 64 | 65 | 54 | 58 | 58 | 70 | 51 | 46 | 48 | 59 | 62 | 38 | 44 | 46 | 56 | 70 | 64    | 63    | 65    | 71 | 73 | 58   | 57    | 58.3 |      |
| Beaver Dam.....   | Maximum | 75 | 75 | 74 | 85 | 85    | 87 | 88 | 89 | 89 | 81 | 83 | 88 | 88 | 85 | 80 | 81 | 85 | 86 | 72 | 74 | 81 | 86 | 87 | 87 | 86    | 85    | 87    | 92 | 86 | 91   | 92    | 84.2 |      |
|                   | Minimum | 66 | 57 | 46 | 56 | 63    | 61 | 65 | 69 | 66 | 66 | 56 | 65 | 65 | 68 | 56 | 51 | 57 | 58 | 57 | 44 | 49 | 51 | 63 | 68 | 69    | 63    | 66    | 69 | 70 | 58   | 58    | 60.5 |      |
| Bellefonte.....   | Maximum | 74 | 73 | 71 | 82 | 81    | 87 | 88 | 86 | 89 | 80 | 77 | 82 | 87 | 84 | 76 | 80 | 83 | 88 | 72 | 74 | 80 | 81 | 89 | 90 | 83    | 86    | 88    | 94 | 89 | 89   | 89    | 83.0 |      |
|                   | Minimum | 62 | 47 | 44 | 49 | 63    | 57 | 59 | 70 | 64 | 58 | 49 | 50 | 54 | 56 | 47 | 41 | 44 | 54 | 44 | 35 | 40 | 42 | 58 | 66 | 65    | 52    | 62    | 67 | 65 | 54   | 47    | 53.7 |      |
| Brookville.....   | Maximum | 77 | 70 | 71 | 85 | ..... | 86 | 87 | 86 | 90 | 80 | 80 | 88 | 87 | 83 | 77 | 82 | 86 | 86 | 70 | 76 | 89 | 86 | 87 | 88 | ..... | ..... | ..... | 92 | 86 | 88   | ..... | 83.2 |      |
|                   | Minimum | 59 | 40 | 39 | 59 | ..... | 56 | 58 | 62 | 62 | 49 | 49 | 50 | 57 | 64 | 44 | 38 | 42 | 49 | 46 | 33 | 46 | 39 | 53 | 58 | ..... | ..... | ..... | 61 | 50 | 47   | ..... | 50.4 |      |
| Butler.....       | Maximum | 78 | 76 | 73 | 89 | 90    | 89 | 90 | 89 | 90 | 87 | 90 | 89 | 90 | 89 | 89 | 88 | 89 | 84 | 82 | 80 | 83 | 89 | 90 | 88 | 90    | 90    | 94    | 94 | 91 | 92   | 96    | 87.5 |      |
|                   | Minimum | 66 | 58 | 44 | 66 | 60    | 59 | 66 | 65 | 65 | 66 | 65 | 60 | 60 | 50 | 43 | 44 | 50 | 50 | 57 | 50 | 41 | 43 | 60 | 65 | ..... | ..... | ..... | 55 | 52 | 56   | 52    | 56.2 |      |
| Carlisle.....     | Maximum | 81 | 79 | 77 | 84 | 89    | 93 | 95 | 93 | 95 | 93 | 86 | 86 | 88 | 91 | 85 | 86 | 88 | 90 | 88 | 81 | 83 | 91 | 93 | 97 | 85    | 91    | 96    | 99 | 97 | 97   | 96    | 89.9 |      |
|                   | Minimum | 63 | 63 | 46 | 48 | 62    | 64 | 67 | 69 | 67 | 67 | 59 | 58 | 56 | 68 | 52 | 44 | 45 | 55 | 63 | 46 | 45 | 64 | 66 | 65 | 65    | 60    | 63    | 68 | 69 | 62   | 58    | 59   | 59.5 |
| Catawissa.....    | Maximum | 78 | 78 | 77 | 85 | 88    | 90 | 95 | 94 | 93 | 86 | 84 | 88 | 91 | 90 | 81 | 87 | 91 | 88 | 88 | 80 | 83 | 87 | 83 | 92 | 94    | 81    | 88    | 94 | 98 | 92   | 95    | 91   | 87.9 |
|                   | Minimum | 61 | 58 | 44 | 46 | 55    | 62 | 65 | 71 | 69 | 64 | 63 | 56 | 57 | 65 | 48 | 46 | 47 | 52 | 57 | 40 | 45 | 50 | 60 | 64 | 66    | 54    | 59    | 66 | 71 | 56   | 53    | 5    |      |
| Chambersburg..... | Maximum | 82 | 77 | 75 | 83 | 88    | 87 | 91 | 90 | 92 | 86 | 84 | 80 | 83 | 85 | 87 | 87 | 88 | 86 | 76 | 77 | 85 | 92 | 89 | 88 | 94    | 90    | 88    | 93 | 91 | 92   | 92    | 86.0 |      |
|                   | Minimum | 66 | 61 | 45 | 48 | 62    | 65 | 70 | 66 | 65 | 69 | 63 | 55 | 57 | 68 | 53 | 45 | 47 | 56 | 64 | 42 | 46 | 56 | 60 | 63 | 64    | 61    | 65    | 65 | 68 | 58   | 59    | 0    |      |
| Claysville.....   | Maximum | 75 | 75 | 78 | 88 | 81    | 92 | 90 | 86 | 90 | 86 | 90 | 83 | 85 | 87 | 88 | 86 | 82 | 88 | 87 | 88 | 76 | 77 | 85 | 92 | 89    | 88    | 94    | 90 | 88 | 93   | 91    | 92   | 86.0 |
|                   | Minimum | 66 | 57 | 40 | 56 | 62    | 59 | 66 | 68 | 68 | 65 | 57 | 62 | 61 | 66 | 56 | 49 | 56 | 55 | 57 | 45 | 41 | 46 | 61 | 67 | 66    | 60    | 64    | 69 | 73 | 50   | 57    | 58.9 |      |
| Clearfield.....   | Maximum | 76 | 79 | 74 | 86 | 78    | 86 | 90 | 90 | 93 | 85 | 81 | 91 | 88 | 87 | 85 | 89 | 91 | 82 | 80 | 78 | 78 | 80 | 93 | 90 | 89    | 91    | 90    | 95 | 93 | 92   | 93    | 86.2 |      |
|                   | Minimum | 60 | 58 | 43 | 50 | 60    | 44 | 68 | 68 | 68 | 65 | 52 | 54 | 66 | 68 | 44 | 48 | 47 | 42 | 50 | 38 | 36 | 36 | 58 | 65 | 64    | 58    | 62    | 63 | 71 | 54   | 51    | 55.2 |      |
| Coatesville.....  | Maximum | 79 | 79 | 74 | 81 | 89    | 91 | 91 | 93 | 93 | 87 | 85 | 85 | 86 | 87 | 78 | 82 | 85 | 84 | 77 | 77 | 79 | 87 | 91 | 86 | 85    | 89    | 95    | 93 | 90 | 89   | 85    | 81.6 |      |
|                   | Minimum | 64 | 64 | 47 | 45 | 63    | 66 | 70 | 75 | 72 | 69 | 63 | 57 | 57 | 64 | 55 | 46 | 50 | 53 | 63 | 48 | 52 | 51 | 67 | 68 | 72    | 64    | 67    | 72 | 75 | 66   | 65    | 61.6 |      |
| Corry.....        | Maximum | 80 | 74 | 72 | 82 | 82    | 84 | 86 | 83 | 88 | 80 | 80 | 87 | 87 | 77 | 79 | 83 | 85 | 82 | 67 | 75 | 83 | 86 | 90 | 88 | 82    | 87    | 88    | 90 | 85 | 85   | 90    | 82.8 |      |
|                   | Minimum | 64 | 52 | 44 | 59 | 61    | 57 | 66 | 61 | 56 | 66 | 64 | 58 | 62 | 67 | 48 | 46 | 48 | 55 | 51 | 38 | 43 | 48 | 58 | 62 | 64    | 52    | 61    | 69 | 60 | 57   | 48    | 55.6 |      |
| Emporium.....     | Maximum | 72 | 68 | 69 | 82 | 77    | 83 | 85 | 84 | 86 | 79 | 75 | 81 | 85 | 82 | 74 | 77 | 80 | 83 | 69 | 72 | 76 | 80 | 86 | 84 | 82    | 82    | 85    | 88 | 85 | 84   | 84    | 80.0 |      |
|                   | Minimum | 63 | 49 | 43 | 52 | 63    | 60 | 63 | 68 | 61 | 63 | 52 | 51 | 62 | 60 | 46 | 47 | 48 | 51 | 53 | 38 | 42 | 46 | 60 | 58 | 65    | 58    | 62    | 67 | 64 | 55   | 50    | 55.5 |      |
| Erie.....         | Maximum | 76 | 65 | 73 | 85 | 79    | 86 | 88 | 76 | 85 | 76 | 76 | 82 | 87 | 74 | 77 | 80 | 80 | 79 | 64 | 70 | 78 | 81 | 86 | 84 | 78    | 86    | 88    | 90 | 81 | 80   | 92    | 80.1 |      |
|                   | Minimum | 60 | 55 | 57 | 66 | 65    | 65 | 69 | 65 | 65 | 63 | 56 | 67 | 70 | 64 | 59 | 59 | 60 | 63 | 56 | 52 | 57 | 61 | 66 | 69 | 69    | 62    | 68    | 73 | 68 | 66   | 61    | 63.1 |      |
| Franklin.....     | Maximum | 79 | 68 | 74 | 83 | 82    | 85 | 83 | 87 | 87 | 82 | 85 | 90 | 87 | 80 | 82 | 85 | 88 | 82 | 79 | 80 | 83 | 88 | 90 | 88 | 84    | 91    | 87    | 90 | 87 | 88   | 92    | 84.4 |      |
|                   | Minimum | 63 | 55 | 45 | 58 | 63    | 60 | 66 | 65 | 61 | 66 | 52 | 53 | 62 | 68 | 61 | 58 | 50 | 57 | 54 | 40 | 46 | 48 | 57 | 64 | 65    | 60    | 62    | 69 | 70 | 56   | 52    | 57.6 |      |
| Freeland.....     | Maximum | 74 | 70 | 67 | 77 | 81    | 84 | 86 | 84 | 86 | 80 | 81 | 82 | 82 | 80 | 76 | 78 | 81 | 80 | 74 | 71 | 75 | 76 | 83 | 84 | 79    | 80    | 86    | 89 | 84 | 86   | 83    | 80.0 |      |
|                   | Minimum | 63 | 59 | 48 | 54 | 62    | 64 | 68 | 70 | 67 | 65 | 56 | 62 | 60 | 67 | 50 | 54 | 58 | 59 | 54 | 44 | 53 | 54 | 60 | 68 | 66    | 57    | 65    | 71 | 74 | 63   | 59    | 60.5 |      |
| Gettysburg.....   | Maximum | 83 | 77 | 75 | 82 | 87    | 88 | 90 | 92 | 85 | 84 | 79 | 85 | 89 | 83 | 82 | 84 | 87 | 84 | 76 | 80 | 77 | 88 | 92 | 89 | 89    | 98    | 96    | 94 | 92 | 93   | 86.0  |      |      |
|                   | Minimum | 68 | 65 | 49 | 51 | 65    | 66 | 68 | 73 | 69 | 70 | 63 | 60 | 59 | 68 | 57 | 49 | 50 | 58 | 64 | 48 | 50 | 59 | 61 | 67 | 67    | 64    | 67    | 72 | 63 | 65   | 62    | 0    |      |
| Greensburg.....   | Maximum | 74 | 72 | 73 | 85 | 81    | 88 | 88 | 87 | 89 | 81 | 87 | 87 | 89 | 86 | 86 | 87 | 89 | 74 | 77 | 82 | 86 | 89 | 87 | 84 | 88    | 86    | 93    | 89 | 90 | 93   | 84.9  |      |      |
|                   | Minimum | 66 | 59 | 45 | 54 | 63    | 61 | 64 | 69 | 66 | 66 | 58 | 65 | 62 | 57 | 52 | 50 | 55 | 61 | 61 | 43 | 47 | 52 | 63 | 67 | 67    | 63    | 64    | 68 | 72 | 58   | 59    | 59.6 |      |
| Grove City.....   | Maximum | 74 | 73 | 70 | 81 | 79    | 82 | 83 | 81 | 86 | 83 | 78 | 84 | 86 | 81 | 73 | 78 | 82 | 83 | 82 | 71 | 78 | 83 | 86 | 85 | 84    | 87    | 86    | 89 | 86 | 85   | 88    | 81.5 |      |
|                   | Minimum | 64 | 55 | 46 | 58 | 60    | 62 | 65 | 67 | 64 | 64 | 52 | 63 | 64 | 67 | 54 | 63 | 64 | 57 | 55 | 42 | 48 | 52 | 62 | 66 | 65    | 61    | 64    | 55 | 57 | 57   | 54    | 58.9 |      |
| Hamburg.....      | Maximum | 78 | 74 | 76 | 83 | 85    | 89 | 92 | 92 | 91 | 86 | 85 | 85 | 88 | 89 | 86 | 87 | 80 | 78 | 77 | 74 | 92 | 90 | 85 | 91 | 94    | 93    | 92    | 92 | 92 | 86.1 |       |      |      |
|                   | Minimum | 50 | 48 | 43 | 45 | 50    | 62 | 68 | 65 | 68 | 65 | 55 | 58 | 59 | 60 | 52 | 47 | 48 | 47 | 64 | 47 | 50 | 51 | 62 | 66 | 69    | 61    | 62    | 63 | 68 | 57   | 58    | 57.0 |      |
| Harrisburg.....   | Maximum | 76 | 76 | 74 | 81 | 87    | 87 | 91 | 92 | 92 | 83 | 81 | 81 | 85 | 86 | 76 | 80 | 83 | 86 | 74 | 75 | 78 | 71 | 86 | 92 | 81    | 86    | 92    | 95 | 91 | 94   | 90    | 83.9 |      |
|                   | Minimum | 69 | 62 | 54 | 58 | 66    | 66 | 70 | 72 | 68 | 69 | 64 | 62 | 63 | 67 | 60 | 55 | 54 | 61 | 59 | 55 | 54 | 60 | 63 | 67 | 70    | 66    | 68    | 71 | 74 | 69   | 65    | 63.9 |      |
| Hawley.....       | Maximum | 77 | 76 | 69 | 81 | 79    | 90 | 89 | 91 | 89 | 86 | 88 | 87 | 86 | 80 | 84 | 86 | 86 | 73 | 76 | 78 | 82 | 86 | 87 | 84 | 91    | 95    | 90    | 90 | 87 | 84.5 |       |      |      |
|                   | Minimum | 61 | 57 | 39 | 42 | 63    | 61 | 60 | 70 | 61 | 63 | 49 | 52 | 51 | 65 | 42 | 42 | 45 | 48 | 58 | 39 | 40 | 44 | 60 | 62 | 63    | 52    | 53    | 66 | 69 | 55   | 50    | 54.3 |      |
| Huntingdon.....   | Maximum | 77 | 77 | 75 | 87 | 86    | 90 | 92 | 91 | 95 | 83 | 85 | 84 | 90 | 88 | 79 | 85 | 88 | 92 | 77 | 79 | 83 | 83 | 91 | 93 | 80    | 92    | 97    | 93 | 93 | 93   | 86.7  |      |      |
|                   | Minimum | 64 | 62 | 42 | 50 | 64    | 60 | 64 | 71 | 65 | 63 | 54 | 55 | 55 | 67 | 50 | 43 | 44 | 56 | 64 | 37 | 41 | 44 | 59 | 65 | 63    | 60    | 62    | 65 | 69 | 55   | 54    | 57.9 |      |
| Johnstown.....    | Maximum | 76 | 74 | 76 | 91 | 84    | 90 | 94 | 89 | 96 | 81 | 89 | 87 | 91 | 90 | 82 | 88 | 92 | 94 | 80 | 82 | 88 | 87 | 90 | 90 | 85    | 90    | 91    | 97 | 91 | 95   | 94    | 87.9 |      |
|                   | Minimum | 68 | 60 | 48 | 53 | 64    | 61 | 63 | 72 | 66 | 67 | 59 | 63 | 63 | 71 | 54 | 48 | 51 | 61 | 62 | 44 | 46 | 49 | 58 | 68 | 67    | 67    | 65    | 67 | 73 | 59   | 59    | 60.5 |      |
| Lancaster.....    | Maximum | 82 | 83 | 78 | 83 | 91    | 91 | 94 | 95 | 95 | 93 | 88 | 8  |    |    |    |    |    |    |    |    |    |    |    |    |       |       |       |    |    |      |       |      |      |







# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. AUGUST, 1929. No. 8

## GENERAL SUMMARY.

The temperatures during August were slightly below the normal about two-thirds of the time with no marked departures. The rainfall was about three-fifths of the August normal, and greatly intensified the drought conditions that began at the end of the first decade in July. The growth of all vegetation, excepting trees, was stunted, and crops ripened prematurely. Early corn fields were mostly fair to good, but late fields did not ear properly and many were worthless except for ensilage. Early potatoes were dug during the month and were mostly good in yield and quality. The late crop did not make good settings, and the vines dried before the tubers could attain proper sizes. Grasses nearly stopped growing, and many pastures dried out and turned brown. Little plowing for wheat could be done during the latter part of the month as the soil was too dry and hard. Small streams and ponds dried up and the larger streams became very low. Despite the shortage in rainfall, the severity of the local storms seemed to be greater than usual, and the damage in some regions was heavy. On the 13th a hailstorm in Adams county did much damage to corn and orchard fruits. On the 14th severe storms were reported from many places. On that date four persons were killed by lightning in the Philadelphia district and considerable minor property damage was done. Boyerton, in eastern Berks county experienced three severe thunderstorms within 24 hours with a property damage estimated at upwards of \$100,000. Lightning burned three barns in Lebanon county with losses estimated at \$13,500. On the 19th a hailstorm in northern Bucks county damaged crops to the extent of \$10,000 or more. On the 27th lightning and hail did damage in Lebanon county estimated at upwards of \$200,000.

## TEMPERATURE.

The mean temperature for the State, as deduced from reports of 86 stations, was 67.7°, which is 2.3° below the normal August temperature. The highest monthly mean was 75.2° at Holtwood and the lowest was 60.7° at Gouldsboro. The highest temperature recorded during the month was 98°, at Arendtsville and Carlisle on the 1st, and the lowest was 31°, at Gouldsboro on the 20th. The greatest daily range of temperature was 52°, at Clearfield on the 21st.

## PRECIPITATION.

The average precipitation for the State, as shown by observations taken at 134 stations, was 2.52 inches: a deficiency of 1.71 inches as compared with the monthly normal. The greatest monthly amount was 7.20 inches, at Phoenixville, while the lowest was 0.20 inch at Lloyd. The greatest amount recorded in any 24 consecutive hours was 4.24 inches at Lansford on the 14th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | Wind                     |                             |          |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |          |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | *Highest | Direction |
| Erie.....         | 282.2                   | 428.7                    | 66                     | 66               | 60       | 64      | 7,334                    | 9.9                         | 26       | nw.       |
| Harrisburg.....   | 297.3                   | 425.1                    | 70                     | 71               | 49       | 56      | 3,622                    | 4.9                         | 25       | nw.       |
| Philadelphia..... | 270.6                   | 425.1                    | 64                     | 69               | 47       | 56      | 7,925                    | 10.7                        | 40       | nw.       |
| Pittsburgh.....   | 295.2                   | 426.9                    | 68                     | 79               | 50       | 54      | 5,055                    | 6.8                         | 27       | nw.       |
| Reading.....      | 256.9                   | 425.1                    | 60                     | 70               | 50       | 59      | 3,565                    | 4.8                         | 25       | se.       |
| Scranton.....     | 280.9                   | 426.9                    | 66                     | 76               | 49       | 58      | 4,162                    | 5.6                         | 32       | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR AUGUST

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 69.8        | 100     | 33     | 7.05          | 11.27    | 3.18  | .....       | .....         | .....  | .....                  |
| 1889..... | 67.4        | 100     | 37     | 3.24          | 7.07     | 0.83  | .....       | .....         | .....  | .....                  |
| 1890..... | 68.8        | 98      | 34     | 5.76          | 9.65     | 2.58  | 9           | 14            | 8      | 12                     |
| 1891..... | 69.6        | 99      | 35     | 5.09          | 11.77    | 1.43  | 8           | 12            | 11     | 12                     |
| 1892..... | 71.4        | 99      | 42     | 3.77          | 7.64     | 1.07  | 14          | 7             | 10     | 9                      |
| 1893..... | 70.4        | 99      | 30     | 4.50          | 9.99     | 1.68  | 14          | 10            | 7      | 8                      |
| 1894..... | 69.4        | 98      | 32     | 1.84          | 5.51     | 0.17  | 13          | 12            | 6      | 6                      |
| 1895..... | 72.3        | 101     | 32     | 3.23          | 6.03     | 0.59  | 15          | 11            | 5      | 9                      |
| 1896..... | 71.2        | 101     | 35     | 2.22          | 6.53     | 0.45  | 14          | 11            | 6      | 8                      |
| 1897..... | 67.9        | 97      | 34     | 3.17          | 8.60     | 0.84  | 14          | 11            | 6      | 9                      |
| 1898..... | 72.3        | 99      | 37     | 6.60          | 11.32    | 3.72  | 11          | 11            | 9      | 12                     |
| 1899..... | 71.2        | 101     | 38     | 4.01          | 10.09    | 0.07  | 14          | 10            | 7      | 7                      |
| 1900..... | 75.0        | 103     | 38     | 3.33          | 5.78     | 0.84  | 14          | 12            | 5      | 9                      |
| 1901..... | 72.0        | 99      | 42     | 6.81          | 13.65    | 2.48  | 10          | 12            | 9      | 11                     |
| 1902..... | 67.8        | 100     | 34     | 2.62          | 6.44     | 0.51  | 13          | 13            | 5      | 8                      |
| 1903..... | 67.2        | 99      | 36     | 5.29          | 8.05     | 2.00  | 9           | 12            | 10     | 14                     |
| 1904..... | 68.0        | 96      | 34     | 4.36          | 9.64     | 1.66  | 15          | 10            | 6      | 9                      |
| 1905..... | 69.6        | 95      | 36     | 5.71          | 10.83    | 1.92  | 12          | 12            | 7      | 12                     |
| 1906..... | 73.2        | 96      | 39     | 5.62          | 11.65    | 1.62  | 10          | 12            | 9      | 12                     |
| 1907..... | 68.0        | 97      | 32     | 2.94          | 6.19     | 0.77  | 16          | 9             | 9      | 10                     |
| 1908..... | 69.4        | 102     | 30     | 3.22          | 8.06     | 1.22  | 15          | 10            | 6      | 7                      |
| 1909..... | 69.4        | 100     | 34     | 2.31          | 7.76     | 0.12  | 16          | 9             | 6      | 7                      |
| 1910..... | 69.8        | 98      | 35     | 2.61          | 6.46     | 0.55  | 14          | 10            | 7      | 6                      |
| 1911..... | 71.4        | 102     | 36     | 7.63          | 15.14    | 2.60  | 11          | 8             | 12     | 13                     |
| 1912..... | 67.1        | 93      | 36     | 5.02          | 9.65     | 1.68  | 9           | 12            | 10     | 14                     |
| 1913..... | 70.4        | 102     | 38     | 2.69          | 10.93    | 0.70  | 17          | 9             | 5      | 8                      |
| 1914..... | 71.3        | 100     | 34     | 3.85          | 7.20     | 0.64  | 13          | 11            | 7      | 11                     |
| 1915..... | 68.0        | 99      | 34     | 6.71          | 14.44    | 1.92  | 10          | 11            | 10     | 15                     |
| 1916..... | 71.9        | 103     | 32     | 2.57          | 7.08     | 0.21  | 17          | 10            | 4      | 8                      |
| 1917..... | 71.2        | 101     | 38     | 6.69          | 17.50    | 1.06  | 15          | 10            | 6      | 10                     |
| 1918..... | 73.6        | 106     | 32     | 4.12          | 8.02     | 1.05  | 16          | 10            | 5      | 11                     |
| 1919..... | 68.2        | 94      | 35     | 5.43          | 12.03    | 2.35  | 13          | 10            | 8      | 12                     |
| 1920..... | 70.2        | 95      | 37     | 4.66          | 9.29     | 1.93  | 9           | 12            | 10     | 15                     |
| 1921..... | 68.4        | 97      | 35     | 3.83          | 6.68     | 1.81  | 17          | 8             | 6      | 9                      |
| 1922..... | 69.1        | 100     | 31     | 3.14          | 8.16     | 1.15  | 15          | 9             | 7      | 10                     |
| 1923..... | 69.2        | 96      | 30     | 3.10          | 7.30     | 0.59  | 15          | 11            | 5      | 9                      |
| 1924..... | 70.1        | 102     | 31     | 3.78          | 7.54     | 1.48  | 16          | 10            | 5      | 9                      |
| 1925..... | 69.7        | 97      | 26     | 2.28          | 5.14     | 0.65  | 18          | 9             | 4      | 7                      |
| 1926..... | 71.9        | 103     | 32     | 5.69          | 10.04    | 2.95  | 11          | 8             | 12     | 15                     |
| 1927..... | 65.5        | 92      | 34     | 4.12          | 11.49    | 1.13  | 12          | 10            | 9      | 12                     |
| 1928..... | 73.4        | 99      | 35     | 4.60          | 10.87    | 1.32  | 13          | 11            | 7      | 12                     |
| 1929..... | 67.7        | 98      | 31     | 2.52          | 7.20     | 0.20  | 17          | 8             | 6      | 7                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 1.8        | 2.2           | 17   | 1.2          | 12   | 18          |
| Phillipsburg..... | Delaware.....     | 1.4        | 3.7           | 15   | 0.4          | 7    | 22          |
| Mauch Chunk.....  | Lehigh.....       | -3.7       | -1.3          | 15   | -4.1         | 31   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 1.7        | 2.2           | 1    | 1.4          | 25   | 20          |
| Williamsport..... | Susquehanna.....  | 0.1        | 0.6           | 1    | -0.1         | 23   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.2        | 3.3           | 1    | 3.0          | 27   | 17          |
| Greensboro.....   | Monongahela.....  | 10.2       | 11.0          | 4    | 9.0          | 23   | 30          |
| West Newton.....  | Youghiogheny..... | 0.7        | 1.6           | 24   | 0.2          | 1    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.7       | 13.1          | 4    | 12.3         | 20   | 31          |
| Pittsburgh.....   | Ohio.....         | 9.9        | 10.2          | 1    | 9.8          | 17   | 25          |
| Beaver Dam.....   | Ohio.....         | 7.5        | 7.8           | 9    | 7.3          | 6    | 30          |



## Climatological Data for August, 1929

| Stations            | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Observers |        |                              |
|---------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|-----------|--------|------------------------------|
|                     |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |           | Cloudy | Prevailing direction of wind |
| Atlantic Drainage.  |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |           |        |                              |
| Allentown           | Lehigh       | 254             | 17                      | 69.8                         | .....                     | 96      | 1     | 50     | 17    | 36                       | 4.10  | -0.25                     | 1.66                 | 0                         | 11                           | 20    | 5          | 6         | ne.    | John A. Frick.               |
| Altoona             | Blair        | 1,615           | 42                      | 66.8                         | -2.8                      | 89      | 10†   | 40     | 31    | 42                       | 1.28  | -2.11                     | 0.56                 | 0                         | 3                            | 20    | 8          | 3         | w.     | F. E. Rooney.                |
| Arendtsville        | Adams        | 700             | 5                       | 71.1                         | .....                     | 98      | 1     | 47     | 31    | 40                       | 1.87  | .....                     | 0.61                 | 0                         | 7                            | 18    | 9          | 4         | n.     | Dr. S. W. Frost.             |
| Bellefonte          | Center       | 1,050           | 24                      | 65.3                         | .....                     | 90      | 10    | 36     | 20    | 45                       | 1.22  | -3.02                     | 0.67                 | 0                         | 7                            | 10    | 14         | 7         | w.     | U. S. Weather Bureau.        |
| Bethlehem           | Northampton  | 364             | 45                      | 71.4                         | -2.3                      | 96      | 1     | 51     | 20†   | 33                       | 3.70  | -0.62                     | 1.23                 | 0                         | 13                           | 18    | 7          | 5         | sw.    | Lehigh University.           |
| Carlisle            | Cumberland   | 467             | 62                      | 71.4                         | -1.3                      | 98      | 1     | 43     | 31    | 43                       | 2.52  | -2.44                     | 0.99                 | 0                         | 9                            | 21    | 4          | 6         | s.     | Prof. C. E. Miller.          |
| Catawissa           | Columbia     | 520             | 32                      | 67.8                         | -2.5                      | 96      | 1†    | 41     | 20    | 44                       | 2.03  | -2.09                     | 1.56                 | 0                         | 4                            | 26    | 3          | 2         | .....  | H. H. Yetter.                |
| Center Hall         | Center       | 1,272           | 33                      | 65.3                         | -3.9                      | 93      | 1     | 40     | 29†   | 43                       | 1.80  | -2.16                     | 0.62                 | 0                         | 5                            | 21    | 6          | 4         | .....  | S. W. Smith.                 |
| Chambersburg        | Franklin     | 580             | 29                      | 69.5                         | -2.7                      | 97      | 1     | 44     | 20†   | 39                       | 4.12  | -0.12                     | 1.45                 | 0                         | 8                            | 13    | 13         | 5         | sw.    | William B. Spear.            |
| Clearfield          | Clearfield   | 1,120           | 19                      | 68.4                         | -1.5                      | 93      | 10    | 37     | 21    | 52                       | 1.79  | -3.85                     | 0.63                 | 0                         | 5                            | 17    | 11         | 3         | w.     | E. W. Hess.                  |
| Coatesville         | Chester      | 380             | 41                      | 69.8                         | +0.1                      | 92      | 12    | 48     | 5     | 34                       | 4.67  | +0.24                     | 2.25                 | 0                         | 9                            | 14    | 13         | 4         | n.     | Prof. W. T. Gordon.          |
| Colebrook           | Lebanon      | 560             | 19                      | 68.0                         | -2.6                      | 91      | 1     | 44     | 31    | 35                       | 2.69  | -2.15                     | 0.78                 | 0                         | 11                           | 22    | 3          | 6         | n.     | Wm. A. Korer.                |
| Emporium            | Cameron      | 1,050           | 41                      | 63.7                         | -4.2                      | 85      | 10    | 38     | 20    | 38                       | 1.46  | -2.61                     | 0.99                 | 0                         | 6                            | 20    | 7          | 4         | w.     | T. B. Lloyd.                 |
| Ephrata             | Lancaster    | 380             | 28                      | 69.5                         | -2.3                      | 93      | 1     | 47     | 21†   | 36                       | 1.65  | -3.25                     | 0.46                 | 0                         | 9                            | 18    | 8          | 5         | sw.    | Ira J. Keath.                |
| Freeland            | Luzerne      | 1,970           | 14                      | 66.0                         | .....                     | 87      | 1     | 47     | 20    | 26                       | 2.65  | .....                     | 1.52                 | 0                         | 7                            | 12    | 8          | 11        | nw.    | Theo. Reichmann.             |
| George School       | Bucks        | 190             | 22                      | 70.8                         | -0.6                      | 95      | 12    | 50     | 17†   | 35                       | 2.72  | -1.88                     | 1.47                 | 0                         | 12                           | 21    | 5          | 5         | s.     | Prof. N. W. Swayne           |
| Gettysburg          | Adams        | 553             | 55                      | 71.2                         | -0.5                      | 95      | 1     | 47     | 31    | 36                       | 1.87  | -2.20                     | 0.84                 | 0                         | 8                            | 19    | 7          | 5         | s.     | Dr. Henry Stewart            |
| Gordon              | Schuylkill   | 840             | 25                      | 65.6                         | -2.6                      | 90      | 1     | 39     | 31    | 43                       | 4.65  | -0.12                     | 2.31                 | 0                         | 7                            | 18    | 6          | 7         | w.     | Capt. J. G. Johnson          |
| Gouldsboro          | Wayne        | 1,875           | 5                       | 60.7                         | .....                     | 85      | 1     | 31     | 20    | 43                       | 2.40  | -2.78                     | 0.74                 | 0                         | 10                           | 17    | 10         | 4         | w.     | Gustav Holtz.                |
| Hamburg             | Berks        | 535             | 36                      | 69.1                         | -2.6                      | 92      | 1†    | 44     | 5     | 42                       | 2.74  | -2.62                     | 2.00                 | 0                         | 4                            | 26    | 2          | 3         | s.     | State Sanatorium.            |
| Hanover             | York         | 600             | 25                      | 72.0                         | -1.6                      | 96      | 1     | 49     | 31    | 34                       | 1.20  | -3.58                     | 0.30                 | 0                         | 7                            | 24    | 4          | 3         | n.     | Thomas Y. Cooper.            |
| Harrisburg          | Dauphin      | 361             | 59                      | 71.2                         | -1.4                      | 93      | 1     | 50     | 31    | 34                       | 2.49  | -1.55                     | 1.13                 | 0                         | 8                            | 11    | 12         | 8         | n.     | U. S. Weather Bureau.        |
| Hawley              | Wayne        | 900             | 10                      | 65.0                         | .....                     | 90      | 12    | 39     | 21    | 45                       | 1.35  | .....                     | 0.64                 | 0                         | 4                            | 19    | 9          | 3         | w.     | Mrs. Della M. Pennell.       |
| Holtwood            | Lancaster    | 200             | 14                      | 75.2                         | .....                     | 95      | 1†    | 55     | 31    | 32                       | 3.78  | +0.28                     | 2.39                 | 0                         | 5                            | 15    | 11         | 5         | .....  | H. W. Lowy, C. E.            |
| Huntingdon          | Huntingdon   | 650             | 41                      | 67.8                         | +2.9                      | 94      | 10    | 37     | 31    | 48                       | 2.36  | -1.73                     | 0.89                 | 0                         | 11                           | 10    | 15         | 6         | nw.    | Prof. H. A. Conner.          |
| Hyndman             | Bedford      | 977             | 13                      | 70.3                         | -0.6                      | 96      | 13    | 40     | 31    | 46                       | 2.63  | -1.65                     | 0.51                 | 0                         | 9                            | 10    | 9          | 12        | .....  | Horace A. Sheavly.           |
| Lancaster           | Lancaster    | 255             | 41                      | 69.0                         | -3.7                      | 96      | 1     | 43     | 20†   | 42                       | 2.55  | -1.48                     | 1.16                 | 0                         | 7                            | 23    | 3          | 5         | w.     | Supt. of Water Works.        |
| Lawrenceville       | Tioga        | 1,000           | 31                      | 62.4                         | -5.7                      | 89      | 10†   | 36     | 20    | 44                       | 0.85  | -2.95                     | 0.45                 | 0                         | 4                            | 22    | 4          | 5         | .....  | C. P. Darling.               |
| Lebanon             | Lebanon      | 469             | 88                      | 69.6                         | -2.4                      | 93      | 1     | 48     | 21    | 33                       | 3.08  | -1.53                     | 0.78                 | 0                         | 9                            | 22    | 7          | 2         | sw.    | S. B. Benzing.               |
| Lewisburg           | Union        | 450             | 54                      | 70.2                         | +1.3                      | 95      | 1†    | 42     | 31    | 47                       | 1.41  | -3.26                     | 0.96                 | 0                         | 5                            | 12    | 12         | 7         | w.     | Prof. W. G. Owens.           |
| Lock Haven          | Clinton      | 560             | 39                      | 69.4                         | -1.9                      | 95      | 10    | 44     | 20†   | 41                       | 0.98  | -3.19                     | 0.44                 | 0                         | 5                            | 15    | 13         | 3         | sw.    | Joseph Beaver.               |
| Lykens              | Dauphin      | 680             | 14                      | 67.4                         | -2.8                      | 93      | 12    | 39     | 31    | 44                       | 3.86  | +0.02                     | 0.79                 | 0                         | 9                            | 16    | 14         | 1         | nw.    | Susquehanna Collieries Co.   |
| Mauch Chunk         | Carbon       | 606             | 38                      | 65.4                         | -4.9                      | 96      | 1     | 42     | 17    | 44                       | 3.74  | -1.23                     | 2.34                 | 0                         | 9                            | 21    | 6          | 4         | sw.    | R. K. Wintermute.            |
| Midlinton           | Juniata      | 445             | 25                      | 69.1                         | -1.5                      | 93      | 10    | 41     | 31    | 44                       | 2.12  | -2.40                     | 0.75                 | 0                         | 8                            | 19    | 3          | 9         | w.     | Wellington Smith.            |
| Montrose            | Susquehanna  | 1,720           | 26                      | 63.8                         | -3.1                      | 86      | 10†   | 43     | 5     | 32                       | 3.12  | -1.09                     | 1.63                 | 0                         | 5                            | 15    | 13         | 3         | w.     | Silas Jagger.                |
| Mt. Pocono          | Monroe       | 1,658           | 25                      | 63.4                         | -0.8                      | 86      | 1     | 40     | 20    | 32                       | 4.13  | -0.21                     | 2.00                 | 0                         | 11                           | 18    | 5          | 8         | nw.    | Cecil J. Hoskinson.          |
| Muncy Valley        | Sullivan     | 1,045           | 17                      | 66.1                         | -1.6                      | 91      | 11    | 40     | 5     | 41                       | 2.66  | -2.58                     | 1.38                 | 0                         | 6                            | 20    | 6          | 5         | w.     | H. O. Hacker.                |
| Narberth            | Montgomery   | 300             | 10                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....     | .....  | Charles Decker.              |
| Neshaminy Falls     | Bucks        | 60              | 40                      | 69.9                         | -1.1                      | 93      | 12    | 48     | 5†    | 37                       | 4.22  | .....                     | 2.43                 | 0                         | 8                            | 25    | 3          | 3         | s.     | North Springfield Water Co.  |
| Palmerton           | Carbon       | 328             | 12                      | 67.0                         | .....                     | 92      | 1     | 47     | 3†    | 34                       | 5.32  | .....                     | 3.88                 | 0                         | 7                            | 8     | 18         | 5         | ne.    | New Jersey Zinc Co.          |
| Philadelphia        | Philadelphia | 114             | 58                      | 73.2                         | -1.6                      | 92      | 12    | 59     | 5     | 22                       | 3.22  | -1.40                     | 1.53                 | 0                         | 9                            | 9     | 13         | 9         | n.     | U. S. Weather Bureau.        |
| Philadelphia-Gtn.   | Philadelphia | 113             | 5                       | 73.4                         | .....                     | 93      | 12    | 58     | 31    | 24                       | 3.38  | .....                     | 1.21                 | 0                         | 9                            | 12    | 11         | 8         | .....  | Julius Bernstein.            |
| Phila. Navy Yard    | Philadelphia | 12              | 13                      | 72.8                         | -1.2                      | 92      | 12    | 54     | 31    | 29                       | 2.86  | -2.04                     | 1.28                 | 0                         | 7                            | 17    | 4          | 10        | sw.    | Commandant, Navy Yard.       |
| Phila. Point Breeze | Philadelphia | 90              | 4                       | 73.6                         | .....                     | 93      | 12    | 57     | 31    | 25                       | 2.75  | .....                     | 1.62                 | 0                         | 5                            | 19    | 4          | 8         | sw.    | Atlantic Refining Co.        |
| Phoenixville        | Chester      | 100             | 18                      | 71.8                         | -0.9                      | 95      | 1     | 49     | 21    | 37                       | 7.20  | +2.68                     | 3.44                 | 0                         | 8                            | 19    | 11         | 1         | s.     | North Springfield Water Co.  |
| Quakertown          | Bucks        | 496             | 44                      | 69.3                         | +2.1                      | 95      | 1     | 44     | 21    | 41                       | 6.70  | +2.41                     | 2.05                 | 0                         | 11                           | 14    | 14         | 3         | nw.    | John E. Benner.              |
| Reading             | Berks        | 325             | 59                      | 71.2                         | -1.2                      | 95      | 1     | 53     | 21    | 29                       | 3.41  | -0.80                     | 1.22                 | 0                         | 10                           | 14    | 10         | 7         | n.     | U. S. Weather Bureau.        |
| Scranton            | Lackawanna   | 805             | 34                      | 67.3                         | -2.5                      | 99      | 1     | 44     | 31    | 38                       | 3.29  | -0.40                     | 1.43                 | 0                         | 7                            | 12    | 13         | 6         | sw.    | U. S. Weather Bureau.        |
| Selinsgrove         | Snyder       | 455             | 39                      | 69.4                         | -2.1                      | 91      | 12    | 42     | 31    | 44                       | 2.51  | -1.87                     | 0.98                 | 0                         | 6                            | 21    | 5          | 5         | sw.    | Dr. George E. Fisher.        |
| Shawmont            | Philadelphia | 51              | 33                      | 71.6                         | .....                     | 91      | 1     | 53     | 5†    | 31                       | 4.30  | -0.83                     | 1.48                 | 0                         | 9                            | 20    | 6          | 5         | s.     | W. S. Guiles.                |
| State College       | Center       | 1,217           | 44                      | 67.6                         | -1.1                      | 91      | 10    | 42     | 20    | 44                       | 1.48  | -2.30                     | 0.49                 | 0                         | 6                            | 14    | 14         | 3         | w.     | C. A. Kern.                  |
| Stroudsburg         | Monroe       | 500             | 13                      | 67.2                         | -1.6                      | 94      | 1     | 42     | 21    | 44                       | 2.88  | -2.43                     | 0.80                 | 0                         | 8                            | 13    | 14         | 4         | w.     | State Normal School.         |
| Towanda             | Bradford     | 754             | 34                      | 65.8                         | -2.7                      | 90      | 11†   | 38     | 31    | 46                       | 1.42  | -2.28                     | 1.06                 | 0                         | 6                            | 17    | 7          | 7         | e.     | Hiram E. Bull, C. E.         |
| Wellsboro           | Tioga        | 1,419           | 63                      | 62.7                         | -3.7                      | 90      | 10    | 34     | 20†   | 48                       | 0.25  | -3.46                     | 0.12                 | 0                         | 3                            | 22    | 6          | 3         | sw.    | George W. Hill.              |
| West Chester        | Chester      | 455             | 91                      | 69.6                         | -2.4                      | 87      | 1†    | 51     | 5     | 26                       | 4.52  | -0.16                     | 2.11                 | 0                         | 9                            | 19    | 11         | 1         | w.     | Joseph W. Belt.              |
| Williamsport        | Lycoming     | 521             | 42                      | 69.5                         | -1.2                      | 96      | 12    | 44     | 20    | 43                       | 0.88  | -3.73                     | 0.40                 | 0                         | 4                            | 13    | 8          | 10        | sw.    | Miss Veronica E. April.      |
| York                | York         | 400             | 41                      | 70.0                         | -2.6                      | 95      | 1     | 43     | 20†   | 43                       | 1.21  | -3.08                     | 0.40                 | 0                         | 7                            | 19    | 10         | 2         | n.     | York Water Co.               |
| Ohio Drainage.      |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |           |        |                              |
| Beaver Dam          | Beaver       | 700             | 36                      | 67.6                         | -4.9                      | 87      | 1†    | 44     | 20    | 37                       | 2.54  | -1.24                     | 1.23                 | 0                         | 7                            | 9     | 14         | 8         | sw.    | U. S. Engineer.              |
| Bradford            | McKean       | 1,460           | 14                      | 66.4                         | .....                     | 90      | 13    | 40     | 20    | 40                       | 0.56  | .....                     | 0.32                 | 0                         | 6                            | 12    | 14         | 5         | w.     | Supt. Timber Pres. Plant.    |
| Brookville          | Jefferson    | 1,173           | 38                      | 60.8                         | -5.7                      | 89†     | 10    | 33†    | 20†   | 49†                      | 0.50  | -3.63                     | 0.25                 | 0                         | 3                            | 27    | 2          | 2         | .....  | John Fawcett.                |
| Butler              | Butler       | 1,152           | 4                       | 66.2                         | .....                     | 90      | 10    | 36     | 20    | 45                       | 2.43  | .....                     | 0.99                 | 0                         | 5                            | 19    | 7          | 5         | nw.    | William C. Faust.            |
| Claysville          | Washington   | 1,150           | 25                      | 67.2                         | -4.3                      | 90      | 8†    | 41     | 31    | 44                       | 3.26  | -1.07                     | 0.97                 | 0                         | 7                            | 9     | 14         | 8         | sw.    | J. L. Melvin.                |
| Corry               | Erie         | 1,430           | 17                      | 63.9                         | -1.5                      | 88      | 10†   | 37     | 20†   | 46                       | 1.43  | -2.56                     | 0.71                 | 0                         | 7                            | 9     | 14         | 8         | sw.    | Ass'd Gas & Electric Co.     |
| Coudersport         | Potter       |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |           |        |                              |



## Daily Precipitation for August, 1929

| Stations           | Drainage Basin | Day of month |     |      |     |     |     |     |     |     |      |      |     |      |      |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     |      | Total |
|--------------------|----------------|--------------|-----|------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|-----|------|-------|
|                    |                | 1            | 2   | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11   | 12  | 13   | 14   | 15   | 16 | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24   | 25  | 26   | 27  | 28   | 29  | 30  | 31   |       |
| Atlantic Drainage. |                |              |     |      |     |     |     |     |     |     |      |      |     |      |      |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     |      |       |
| Allentown          | Lehigh         |              |     |      | .32 |     |     |     |     | .02 |      |      | .97 | .07  | .15  | 1.66 |    |     |     | .27 | .02 |     |     | .02 | .20  |     |      |     |      | .40 |     | T.   | 4.10  |
| Altoona            | Juniata        |              | .56 |      |     |     |     |     |     |     |      | .50  |     |      |      |      |    |     |     |     |     |     |     | .22 |      |     |      |     |      |     |     | 1.28 |       |
| Ansonia            | W. Br. Susq.   |              | .05 |      |     |     |     |     |     | .27 |      |      |     |      | .05  |      |    |     |     |     |     |     |     |     |      | .04 |      |     |      |     |     |      | 0.41  |
| Arendtsville       | Lower Susq.    |              |     | .40  |     |     |     |     |     |     |      | .41  | .01 | .03  | .61  |      |    |     |     | .29 |     |     |     | .12 |      |     |      |     |      |     |     | 1.87 |       |
| Baker's Summit     | Juniata        |              | .52 | .01  |     |     |     |     |     |     |      | .61  |     |      |      |      |    |     |     | .04 |     |     | .03 | .22 | .05  |     |      |     |      |     |     | 1.48 |       |
| Bellefonte         | W. Br. Susq.   |              | .25 |      |     | T.  |     | .10 |     |     |      | T.   |     |      | .01  |      |    |     | .16 | .02 |     |     | .01 | .67 |      |     |      |     |      |     |     | 1.22 |       |
| Bethlehem          | Lehigh         | T.           | .24 | .08  |     |     |     |     | .01 |     | .10  | .97  | .13 | .21  | 1.02 |      |    |     |     | .17 |     |     |     | .20 |      |     |      | .39 | .08  |     | .10 | 3.70 |       |
| Bioserville        | Lower Susq.    |              |     |      |     |     |     |     | .35 | .89 | .02  |      |     |      | .05  |      |    |     |     |     |     | T.  | T.  |     |      |     |      | .25 |      |     |     | 1.56 |       |
| Carlisle           | Lower Susq.    |              | .46 |      |     | T.  |     | T.  |     | .20 | .79  | .05  |     | .10  | T.   |      |    |     |     | .16 |     | .01 | .01 |     |      |     |      | .74 |      |     |     | 2.52 |       |
| Catawissa          | N. Br. Susq.   |              | .24 |      |     | T.  |     |     |     |     |      | T.   |     | 1.56 |      |      |    |     | .09 |     |     |     | .14 |     |      |     |      |     |      |     |     | 2.03 |       |
| Center Hall        | Susquehanna    |              | .22 |      |     |     | .42 |     |     |     |      | .18  |     |      |      |      |    |     |     |     |     |     |     | .62 |      |     |      |     |      |     |     | 1.80 |       |
| Chambersburg       | Potomac        |              | .54 | .03  |     |     |     | T.  |     |     |      | .46  | .02 |      | 1.45 |      |    |     |     |     |     | T.  | .02 |     |      |     | 1.29 |     |      |     |     | 4.12 |       |
| Clearfield         | W. Br. Susq.   |              | .30 |      |     | T.  |     | .63 |     |     |      | T.   |     |      | .30  |      |    |     | .06 |     |     |     |     | .50 |      |     |      |     |      | T.  |     | 1.79 |       |
| Coatesville        | Lower Del.     | .03          | .33 | 1.87 |     |     |     |     | T.  | .03 | .58  | .56  |     | .74  | .47  |      |    |     |     | .01 |     |     |     |     |      |     |      |     |      |     |     | 4.67 |       |
| Colebrook          | Lower Susq.    |              | .45 | .01  |     | T.  |     |     | T.  | .06 | .78  | .03  |     | .77  | .02  |      |    |     |     | .10 |     |     | T.  | .07 | .02  |     |      | .38 |      |     |     | 2.69 |       |
| Conshohocken       | Schuylkill     |              | .21 | .56  | .03 | .51 |     |     |     | .37 |      |      | .98 |      | .27  | 1.04 |    |     |     |     |     |     | T.  | .32 | T.   |     |      |     |      | T.  | T.  | 4.29 |       |
| Cresson            | Juniata        |              |     |      |     |     |     |     |     |     | .75  |      |     | .03  |      |      |    |     |     |     |     |     | .10 | .45 |      |     |      |     |      |     |     | 1.33 |       |
| Doylestown         | Lower Del.     |              | .15 |      |     |     |     |     | .14 |     | .18  | .89  | .26 | .85  | .27  |      |    |     |     | T.  |     |     |     | .22 |      |     |      | .06 |      |     |     | 3.02 |       |
| Driftwood          | W. Br. Susq.   |              |     | .02  |     | T.  |     |     |     |     |      |      |     |      | T.   |      |    |     |     |     |     |     |     |     | 1.40 |     |      |     |      |     | T.  |      | 1.42  |
| Emporium           | do.            |              | .10 |      |     | T.  |     |     | T.  |     |      | .12  |     |      | .10  | T.   |    |     |     |     |     |     | .05 | .99 |      |     |      | .10 |      | T.  |     | 1.46 |       |
| Ephrata            | Lower Susq.    | .15          | .46 | T.   |     |     |     |     | .24 | .08 | .26  | T.   |     |      | .02  | .01  |    |     |     |     |     |     |     | .09 |      |     |      |     |      |     |     | 1.65 |       |
| Forest City        | N. Br. Susq.   |              | .49 |      |     |     |     |     | .04 |     |      |      |     |      | 1.05 | .25  |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 1.83 |       |
| Freeland           | Lehigh         |              | .32 |      |     | T.  |     |     |     |     | T.   | .19  | T.  |      | .27  | 1.52 |    |     |     |     |     |     |     |     | .15  |     |      |     |      |     |     | 2.65 |       |
| George School      | Lower Del.     |              | .01 | .12  | .27 |     |     |     | .53 |     | .07  | .11  | T.  | 1.23 | .24  |      |    |     |     |     |     |     |     | .10 | .02  | .11 |      |     | .01  | .01 |     | 2.72 |       |
| Jettysburg         | Potomac        |              | .23 | .06  |     | T.  |     | .01 |     |     | .46  | .02  |     | .05  |      |      |    |     |     |     |     |     |     | .20 |      |     |      | T.  | T.   |     |     | 1.87 |       |
| Maradville         | Lower Susq.    |              | .22 |      |     |     |     | .03 |     | .50 | .19  |      |     | 2.15 |      |      |    |     |     |     |     |     |     | .43 |      |     |      |     |      |     |     | 3.59 |       |
| Jordon             | Lower Susq.    | T.           | .20 | T.   |     |     |     |     |     | .25 |      |      |     | 2.31 | 1.60 |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 4.65 |       |
| Mouldsboro         | Lehigh         |              |     | .38  | .02 |     |     |     | .06 |     | .21  | .61  |     | .11  | .74  | .02  |    |     |     |     |     |     |     | .06 |      |     |      | .03 |      |     |     | 2.40 |       |
| Graterford         | Schuylkill     | T.           | .39 | .18  |     |     |     |     | .21 |     | .16  |      | .11 | 1.38 | .23  |      |    |     |     |     |     |     |     |     | .07  |     |      |     |      |     |     | 3.37 |       |
| Hamburg            | Schuylkill     |              | .40 |      |     |     |     |     |     |     |      | .30  |     | 2.00 |      |      |    |     |     |     |     |     |     |     |      |     |      | .04 |      |     |     | 2.74 |       |
| Hanover            | Lower Susq.    | T.           | .30 | .05  |     | T.  |     |     | T.  |     | .21  | .01  |     | T.   | .18  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 1.20 |       |
| Harrisburg         | do.            |              | .60 |      |     | T.  |     | .05 | T.  |     | .50  | T.   |     | .01  | .02  |      |    |     | T.  |     |     |     |     | .15 |      | .03 | T.   |     | 1.13 |     | T.  | 2.49 |       |
| Hawley             | Upper Del.     |              | .57 |      |     |     |     |     |     |     |      |      |     | .08  | .64  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 1.35 |       |
| Hollisterville     | Upper Del.     |              | .46 |      |     | T.  |     |     |     |     |      | .16  |     |      | .02  | .56  |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 1.27 |       |
| Holtwood           | Lower Susq.    | T.           | .32 |      |     |     |     |     |     |     | .15  |      |     | 2.39 | .42  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 3.78 |       |
| Huntingdon         | Juniata        | .04          | .79 | .10  |     | .01 |     |     |     |     | .10  | .10  | .01 | .19  | T.   |      |    |     |     |     |     |     | .80 |     | .08  | .14 | T.   |     |      |     |     | 2.36 |       |
| Iyndman            | Potomac        | .22          | .38 | .16  |     |     |     |     |     |     | .28  | .18  |     |      | .27  |      |    |     |     |     |     |     |     | .30 |      | .51 | .33  |     |      |     | T.  | 2.63 |       |
| Jakeville          | Upper Del.     |              |     | .65  |     |     |     |     |     |     |      |      |     | .15  | T.   |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 0.80 |       |
| Jancaster          | Lower Susq.    | .32          | .58 |      |     |     |     |     | .10 |     | 1.16 |      |     |      | .14  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 2.55 |       |
| Jansford           | Lehigh         |              | .48 |      |     |     |     |     | T.  |     |      | .35  |     |      | .15  | 4.24 |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 5.41 |       |
| Jawrenceville      | N. Br. Susq.   | .12          | .20 |      |     |     |     |     |     | .45 |      |      |     |      | .08  |      |    |     |     |     |     |     |     |     |      |     |      |     | .02  |     |     | 0.85 |       |
| Jebanon            | Lower Susq.    | .37          |     | T.   | T.  |     | .45 |     | .42 | T.  |      | .28  | .48 |      |      |      |    | .09 |     |     |     |     |     | .01 | .20  |     |      | .78 |      |     |     | 3.08 |       |
| Jewisburg          | W. Br. Susq.   | .96          | T.  |      | .01 |     |     |     | T.  |     | T.   |      |     | .16  | .01  |      |    |     |     |     |     |     |     |     | .27  |     |      |     |      |     |     | 1.41 |       |
| Jloyd              | do.            |              | .04 | .08  |     |     |     |     |     |     |      |      |     |      |      |      |    |     |     |     |     |     |     |     | .08  |     |      |     |      |     |     | 0.20 |       |
| Jock Haven         | do.            |              | .18 |      |     |     |     |     |     |     |      | .01  |     |      | .19  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 0.98 |       |
| Jykens             | Susquehanna    | .21          | .60 |      |     | T.  |     |     | .48 | .49 | .29  |      | .07 | .79  |      |      |    |     |     |     |     |     |     |     |      |     |      |     | .63  |     |     | 3.86 |       |
| Jlauch Chunk       | Lehigh         | .71          |     | .01  |     |     |     | .03 | .36 |     | .07  | 2.34 |     |      | .75  |      |    |     |     |     |     |     |     |     |      |     |      |     | .06  |     |     | 3.74 |       |
| Jliffintown        | Juniata        | .41          | .03 |      |     |     |     | .11 | .33 |     |      |      |     |      | .75  |      |    |     |     |     |     |     |     |     | .08  |     | .21  |     |      | .20 |     |      | 2.12  |
| Jontrose           | N. Br. Susq.   |              | .28 | .19  |     |     |     |     | .30 |     |      |      |     |      | 1.63 | .72  |    |     |     |     |     |     |     |     |      |     |      |     |      |     | T.  | 3.12 |       |
| Jorris Run         | N. Br. Susq.   |              | .05 |      |     |     |     | .09 |     | .05 | .04  | .10  | .58 | .32  | .09  | .12  |    |     |     |     |     |     |     |     |      |     |      | .01 |      |     |     | 0.36 |       |
| Jount Pocono       | Upper Del.     | .20          | .42 |      |     |     |     |     |     |     |      |      |     |      |      |      |    |     |     |     |     |     |     |     | .10  | .02 |      |     |      |     |     | 4.13 |       |
| Juncy Valley       | W. Br. Susq.   |              | .73 |      |     |     |     | .12 | T.  |     |      |      |     | 1.38 | .09  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 2.66 |       |
| Jurberth           | Lower Del.     |              |     |      |     |     |     |     |     |     |      |      |     |      |      |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 4.22 |       |
| Jeshaminy          | Lower Del.     |              | .06 |      | .84 |     |     | .48 |     | .07 | .17  |      |     |      | 2.43 |      |    |     |     |     |     |     |     |     | .10  |     |      |     |      |     |     |      |       |
| Jew Park           | Lower Susq.    | .03          | .45 |      |     |     |     |     |     | .25 |      | .22  |     |      |      |      |    |     |     |     |     |     |     | .45 |      | .18 |      |     | .90  |     |     |      | 2.48  |
| Jalmertont         | Lehigh         |              | .39 |      |     | T.  |     | .05 |     |     | .41  | .34  |     | 3.88 |      |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 5.82 |       |
| Jaupack            | Upper Del.     |              | .43 | .43  |     |     |     |     |     |     |      |      |     |      | .60  |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     | 1.15 |       |
| Jhiladelphia       | Lower Del.     |              | .43 | .02  |     | T.  |     |     | .31 |     | .61  | T.   | T.  | 1.53 |      |      |    |     |     |     |     |     |     | .01 | .07  |     |      |     |      | T.  | .01 | 3.22 |       |
| Jhiladelphia-Ctn.  | do.            |              | .20 | .45  | .0  |     |     |     |     |     |      |      |     |      |      |      |    |     |     |     |     |     |     |     |      |     |      |     |      |     |     |      |       |



## Daily Precipitation for August, 1929—Continued from page 38

| Stations           | Drainage Basin    | Day of month |   |      |      |      |     |     |     |   |      |      |      |     |     |     |     |    |     |     |    |    |    |      |      |      |     |     |     |     |     |    | Total  |
|--------------------|-------------------|--------------|---|------|------|------|-----|-----|-----|---|------|------|------|-----|-----|-----|-----|----|-----|-----|----|----|----|------|------|------|-----|-----|-----|-----|-----|----|--------|
|                    |                   | 1            | 2 | 3    | 4    | 5    | 6   | 7   | 8   | 9 | 10   | 11   | 12   | 13  | 14  | 15  | 16  | 17 | 18  | 19  | 20 | 21 | 22 | 23   | 24   | 25   | 26  | 27  | 28  | 29  | 30  | 31 |        |
| Ohio Drainage.     |                   |              |   |      |      |      |     |     |     |   |      |      |      |     |     |     |     |    |     |     |    |    |    |      |      |      |     |     |     |     |     |    |        |
| Beaver Dam\|\|\| | Ohio.....         |              |   | .16  | .20  |      |     |     |     |   |      | .05  | .09  |     | .30 |     |     |    |     |     |    |    |    |      | .51  | 1.23 |     |     |     |     |     |    | 2.54   |
| Beaver Falls\|\|\| | Beaver.....       |              |   | .16  | .14  |      |     | T.  |     |   |      | .38  | T.   |     | .30 |     |     |    |     |     |    |    |    |      | .32  | .34  |     |     |     |     |     |    | 1.64   |
| Bradford.....      | Allegheny.....    |              |   | .04  | .10  | .02  |     |     |     |   |      | .05  |      |     | .03 |     | T.  |    |     |     |    |    |    |      | .32  |      |     |     |     |     |     |    | 0.56   |
| Brookville.....    | do.....           |              |   | .20  |      |      |     |     |     |   |      | .05  |      |     | .25 |     |     |    |     |     |    |    |    |      |      |      |     |     |     |     |     |    | 0.50   |
| Butler.....        | Ohio.....         |              |   | .20  |      |      |     |     |     |   |      | .99  |      |     | .32 |     |     |    |     |     |    |    |    | .20  | .72  |      |     |     |     |     |     |    | 2.43   |
| Claysville.....    | do.....           |              |   | .43  |      |      | T.  |     |     |   | T.   | .97  |      |     | .94 |     |     |    |     | .19 |    |    |    | .16  | .52  | .05  |     |     |     |     |     |    | 3.23   |
| Cloett.....        | Allegheny.....    |              |   | .42  |      |      |     |     |     |   |      | .23  |      |     | .18 |     |     |    |     |     |    |    |    |      | .20  |      |     |     |     |     |     |    | 1.03   |
| Clymer\|\|\| | Conemaugh.....    |              |   | .68  | .15  |      |     |     |     |   |      | T.   |      |     | .18 |     |     |    |     |     |    |    | T. | .46  | .13  |      |     |     |     |     |     |    | 1.60   |
| Confluence\|\|\| | Youghiogheny..... |              |   | 2.62 |      |      | T.  |     |     |   |      | .65  | 1.05 |     | .13 |     |     |    | .43 |     |    |    |    | .13  | 1.48 |      |     |     |     |     |     |    | 6.49   |
| Coraopolis\|\|\| | Ohio.....         |              |   | .16  | .20  |      |     |     |     |   |      | .01  |      |     | .26 |     |     |    |     |     |    |    |    |      | .29  | .38  |     |     |     |     |     |    | 1.30   |
| Corry.....         | Allegheny.....    |              |   | .18  |      |      | .01 |     |     |   |      |      |      |     | .20 | .03 |     |    |     |     |    |    |    |      | .71  |      |     |     | .27 |     | .03 |    | 1.43   |
| Coudersport.....   | do.....           |              |   |      |      |      | .01 |     | .18 |   |      |      |      |     | .10 |     |     |    |     |     |    |    |    |      | .44  |      |     |     |     |     |     |    | 0.73   |
| Creekside.....     | Allegheny.....    |              |   | .67  |      |      | T.  |     |     |   |      |      |      |     | .25 |     |     |    |     |     |    |    |    |      | .63  |      |     |     |     |     |     |    | 1.55   |
| Derry.....         | Conemaugh.....    |              |   | .40  | T.   |      |     |     |     |   | 1.59 |      |      |     | .67 |     |     |    |     | .09 |    |    |    | .18  | .66  | .22  |     |     |     |     |     |    | 3.81   |
| Donora\|\|\| | Monongahela.....  |              |   | .10  |      | 1.89 |     |     |     |   |      |      | .44  |     | .35 | .10 |     |    |     | .10 |    |    |    | .10  | 1.10 | .40  |     |     |     |     |     |    | 4.58   |
| Ebensburg.....     | Conemaugh.....    |              |   | .55  |      |      |     |     |     |   |      | .92  |      |     | .06 |     |     |    |     |     |    |    |    |      | .27  | .73  |     |     |     |     |     |    | 2.53   |
| Elk Lick.....      | Youghiogheny..... |              |   | 2.88 |      |      |     |     |     |   | 1.00 |      |      |     | .10 |     |     |    |     |     |    |    |    | .22  | .75  |      |     |     |     |     |     |    | 4.95   |
| Falls Creek.....   | Allegheny.....    |              |   | .22  |      |      |     |     | .32 |   |      |      |      |     | .21 |     |     |    |     |     |    |    |    |      | .39  |      |     |     |     |     |     |    | 1.14   |
| Franklin\|\|\| | Allegheny.....    |              |   | .04  | .21  |      |     |     |     |   |      | .15  |      |     | .08 | .07 | .03 |    |     |     |    |    |    |      | .27  | .35  |     |     |     |     |     |    | 1.20   |
| Freeport\|\|\| | do.....           |              |   | .14  | .18  |      |     | T.  |     |   |      | .66  |      |     | .23 |     |     |    |     |     |    |    |    |      | .36  | .78  |     |     |     |     | T.  |    | 2.35   |
| Greensboro.....    | Monongahela.....  |              |   | .11  | .89  |      | T.  | .01 |     |   |      | .60  |      |     | T.  | .10 |     |    |     | .36 |    |    |    | .14  | 1.85 |      |     |     |     |     |     |    | 4.06   |
| Greensburg.....    | Youghiogheny..... |              |   | 1.30 | .03  |      | T.  |     |     |   | T.   | .02  | .18  |     | .25 |     |     |    |     | .03 |    |    |    | .14  | 1.36 |      |     |     |     |     |     |    | 3.31   |
| Greenville.....    | Beaver.....       |              |   | .28  |      |      | T.  |     |     |   |      | .08  |      |     | .32 | .05 |     |    |     |     |    |    |    | .05  | .94  |      |     |     |     |     | T.  |    | 1.72   |
| Grove City.....    | Beaver.....       |              |   | .13  |      | .17  |     |     |     |   |      | .09  |      |     | .08 |     |     |    |     |     |    |    |    | .13  | .64  |      |     |     |     |     |     |    | 1.24   |
| Herrs Isl. Dam\|\|\| | Ohio.....         |              |   | .14  | .23  |      |     |     |     |   |      | .20  |      |     | .26 |     |     |    |     | .02 |    |    |    |      | .31  | .69  |     |     |     |     |     | T. | 1.85   |
| Ingram.....        | Ohio.....         |              |   | .58  | T.   |      |     |     |     |   |      | .03  |      |     | .25 |     |     |    |     | .11 |    |    |    |      | .03  | .95  | .08 |     |     |     |     |    | 2.03   |
| Irwin.....         | Youghiogheny..... |              |   | .40  | .01  |      |     |     |     |   |      | .01  |      |     | .41 |     |     |    |     |     |    |    |    | .26  | 2.00 |      |     |     |     |     | T.  |    | 3.09   |
| Johnstown.....     | Conemaugh.....    |              |   | .52  | .04  |      |     |     | .12 |   | 1.55 |      |      |     | .24 |     |     |    |     | .13 |    |    |    | .09  | .55  |      |     |     |     |     | T.  |    | 3.24   |
| Kregar\|\|\| | Youghiogheny..... |              |   | 1.45 |      |      | T.  |     |     |   | 1.71 | .61  |      |     | .05 |     |     |    |     | .40 |    |    |    | .12  | .35  |      |     |     |     |     |     |    | 4.69   |
| Lock No. 4\|\|\| | Monongahela.....  |              |   | .04  | 1.26 |      |     | T.  |     |   |      | .08  | .84  |     | .35 | .04 |     |    |     | .09 |    |    |    | .17  | 1.55 |      |     |     |     |     |     |    | 4.42   |
| Lycippus.....      | Conemaugh.....    |              |   | 1.50 | .45  |      |     |     |     |   |      | .62  | T.   |     | .06 |     |     |    |     | .62 |    |    |    | .11  | .99  |      |     |     |     |     |     |    | 4.35   |
| Meadville.....     | Allegheny.....    |              |   | .08  | .05  |      |     |     |     |   |      |      |      |     | .26 |     |     |    |     |     |    |    |    | .15  |      |      |     |     |     |     |     |    | 0.54   |
| Mount Lebanon..... | Ohio.....         |              |   | 1.33 |      |      |     |     |     |   |      | .06  |      |     | .39 |     |     |    |     | .20 |    |    |    | .18  | .59  | .09  |     |     |     |     |     |    | 2.84   |
| New Castle\|\|\| | Beaver.....       |              |   | .17  | .05  |      | .01 | .03 |     |   |      | .11  |      |     | .09 | .01 |     |    |     |     |    |    |    | .03  | .74  | .16  | .01 |     |     |     |     |    | 1.41   |
| Newell.....        | Monongahela.....  |              |   | .64  |      |      |     |     |     |   |      | .30  |      |     | .16 |     |     |    |     | .12 |    |    |    | .21  | .93  |      |     |     |     |     |     |    | 2.36   |
| Parkers Landing\|\|\| | Allegheny.....    |              |   | T.   | .24  |      |     | .04 |     |   |      |      | .12  |     | .14 |     |     |    |     |     |    |    |    | .97  | .25  |      |     |     |     |     | .03 |    | 1.79   |
| Pennline\|\|\| | Beaver.....       |              |   |      | .14  |      |     |     |     |   |      |      | .03  |     |     | .04 | .10 |    |     |     |    |    |    | .18  | .50  | .02  |     |     |     |     |     |    | 1.01   |
| Pittsburgh***      | Ohio.....         |              |   | .32  |      |      |     |     |     |   |      | .32  | T.   |     | .27 |     |     |    |     | .05 |    |    |    | .04  | .79  |      |     |     |     |     | T.  |    | 1.79   |
| Ridgway.....       | Allegheny.....    |              |   |      |      |      | T.  |     |     |   |      | T.   |      |     | .19 | T.  |     |    |     |     |    |    |    | .88  | T.   |      |     |     |     |     |     |    | \$1.07 |
| Saltsburg\|\|\| | Conemaugh.....    |              |   | .15  | .43  |      |     |     |     |   |      | .86  |      |     | .25 |     |     |    |     | .02 |    |    |    | .29  | .98  |      |     |     |     |     |     |    | 2.98   |
| Sharon\|\|\| | Beaver.....       |              |   | .12  | .09  |      |     |     |     |   |      |      |      |     | .09 | .05 |     |    |     |     |    |    |    | .34  | .30  |      |     |     |     |     |     |    | 0.99   |
| Somerset.....      | Youghiogheny..... |              |   |      |      |      |     |     |     |   |      |      |      |     |     |     |     |    |     |     |    |    |    |      |      |      |     |     |     |     |     |    |        |
| Springdale\|\|\| | Allegheny.....    |              |   | .12  | .36  |      |     |     |     |   |      |      | .41  |     | .25 |     |     |    |     |     |    |    |    |      | .70  | 1.29 |     |     |     |     |     |    | 3.13   |
| Uniontown.....     | Monongahela.....  |              |   | 1.80 |      |      | T.  |     |     |   |      | 1.11 |      |     | .02 |     |     |    |     | .35 |    |    |    | .04  | 1.67 |      |     |     |     |     |     |    | 4.99   |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |   | 1.22 | .05  |      |     |     |     |   |      | .06  | .18  |     | .37 |     |     |    |     | .16 |    |    |    | .08  | 1.21 |      |     |     |     |     |     |    | 3.33   |
| Vandersgrift\|\|\| | Conemaugh.....    |              |   | .63  |      |      |     |     |     |   |      | .62  |      |     | .26 |     |     |    |     |     |    |    |    | .42  | 1.26 |      |     |     |     |     |     |    | 3.19   |
| Warren.....        | Allegheny.....    |              |   | .12  |      |      | .01 |     |     |   | .12  | .07  |      |     | .12 |     | .04 |    |     |     |    |    |    | .70  |      |      |     | .01 |     | .01 |     |    | 1.20   |
| Westford\|\|\| | Beaver.....       |              |   | .18  |      |      |     |     |     |   |      | .22  |      | .11 | .35 |     |     |    |     |     |    |    |    | 1.10 |      |      |     |     |     |     |     |    | 1.96   |
| West Newton\|\|\| | Youghiogheny..... |              |   | .82  |      |      |     |     |     |   |      | .28  | .21  |     | .24 | .17 |     |    |     |     |    |    |    | .10  | 1.43 |      |     |     |     |     |     |    | 3.25   |
| Zellenople\|\|\| | Ohio.....         |              |   |      |      |      |     |     |     |   |      | .38  |      |     |     |     |     |    |     |     |    |    |    | .41  | .89  |      |     |     |     |     |     |    | 1.68   |
| Lake Drainage.     |                   |              |   |      |      |      |     |     |     |   |      |      |      |     |     |     |     |    |     |     |    |    |    |      |      |      |     |     |     |     |     |    |        |
| Erie***            | Lake Erie.....    |              |   | .23  |      |      | T.  |     |     |   |      | T.   |      |     | T.  | T.  |     |    |     |     |    |    |    | T.   | .02  |      |     | .04 |     |     | T.  |    | 0.29   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

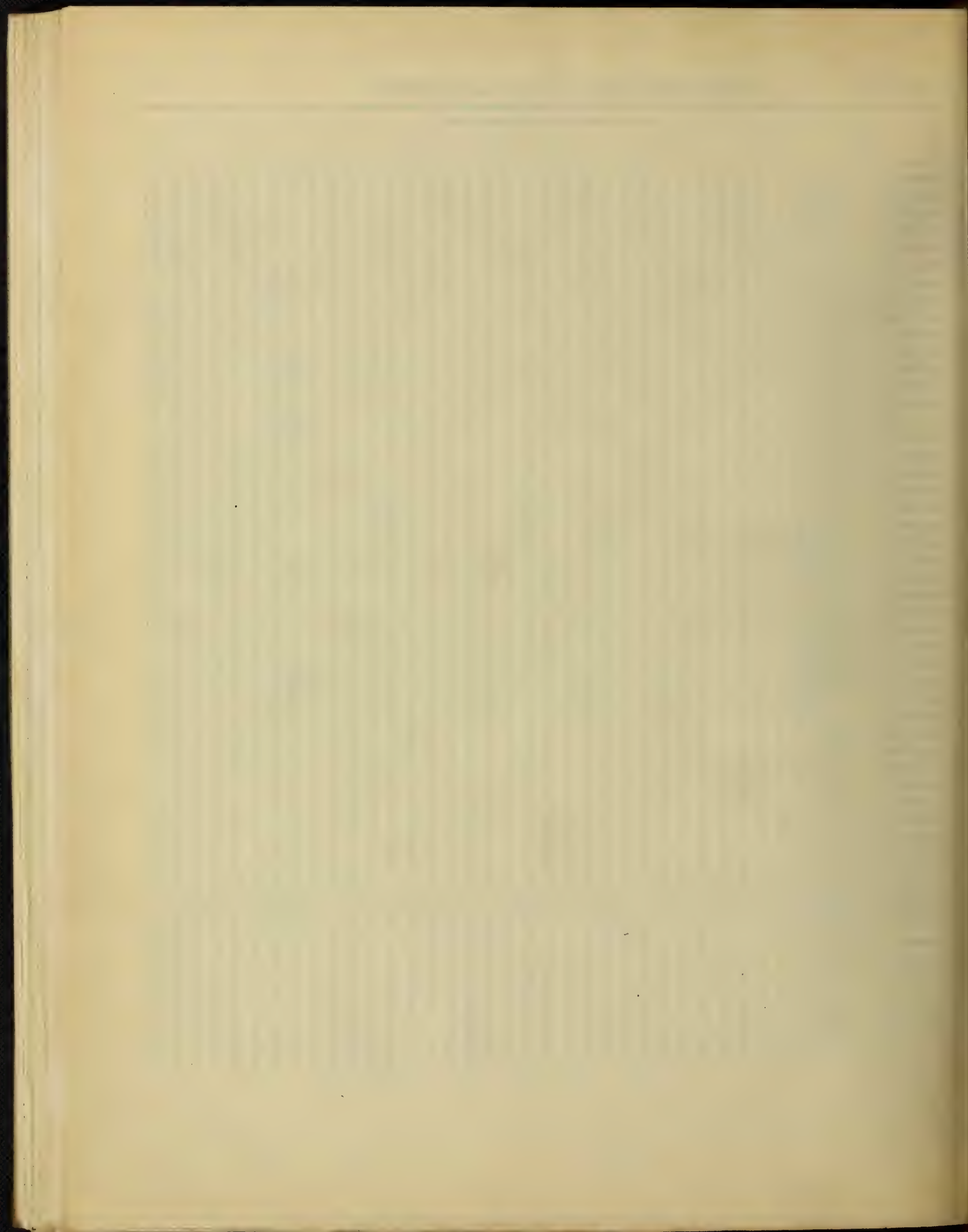
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville  
Newville; of Clos, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.



Daily Temperatures for August, 1929

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean              |      |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------------------|------|------|
| Allentown.....    | Maximum | 96 | 86 | 70 | 75 | 78 | 82 | 86 | 87 | 89 | 87 | 92 | 83 | 79 | 79 | 72 | 83 | 89 | 78 | 76 | 80 | 85 | 79 | 84 | 86 | 88 | 88 | 75 | 73 | 74 | 82   | 81.9              |      |      |
|                   | Minimum | 67 | 59 | 56 | 61 | 54 | 58 | 56 | 54 | 57 | 61 | 65 | 66 | 67 | 68 | 65 | 58 | 50 | 53 | 60 | 50 | 52 | 55 | 65 | 55 | 55 | 58 | 56 | 52 | 55 | 58   | 57.8              |      |      |
| Altoona.....      | Maximum | 88 | 83 | 76 | 68 | 73 | 74 | 79 | 84 | 89 | 88 | 86 | 87 | 85 | 75 | 76 | 88 | 85 | 77 | 77 | 84 | 83 | 81 | 83 | 85 | 89 | 83 | 74 | 67 | 78 | 82   | 80.8              |      |      |
|                   | Minimum | 65 | 42 | 52 | 54 | 50 | 53 | 50 | 51 | 50 | 59 | 67 | 63 | 58 | 57 | 51 | 54 | 49 | 53 | 56 | 41 | 45 | 53 | 54 | 49 | 55 | 61 | 45 | 45 | 49 | 40   | 52.7              |      |      |
| Beaver Dam.....   | Maximum | 87 | 81 | 80 | 73 | 76 | 76 | 78 | 85 | 84 | 87 | 86 | 82 | 86 | 85 | 77 | 76 | 86 | 84 | 76 | 75 | 86 | 85 | 79 | 80 | 81 | 86 | 87 | 73 | 66 | 75   | 82                | 80.6 |      |
|                   | Minimum | 62 | 53 | 61 | 49 | 49 | 58 | 54 | 51 | 53 | 59 | 66 | 62 | 55 | 63 | 53 | 52 | 57 | 56 | 56 | 44 | 49 | 52 | 65 | 58 | 52 | 53 | 59 | 49 | 50 | 49   | 46                | 54.7 |      |
| Bellefonte.....   | Maximum | 88 | 86 | 68 | 70 | 75 | 72 | 79 | 80 | 85 | 90 | 88 | 88 | 89 | 87 | 71 | 77 | 87 | 88 | 75 | 76 | 82 | 88 | 82 | 82 | 85 | 88 | 83 | 70 | 68 | 73   | 83                | 80.7 |      |
|                   | Minimum | 58 | 44 | 47 | 54 | 51 | 55 | 46 | 50 | 55 | 56 | 63 | 55 | 56 | 59 | 46 | 50 | 42 | 50 | 46 | 36 | 43 | 51 | 66 | 53 | 47 | 50 | 53 | 41 | 44 | 38   | 49.9              |      |      |
| Brookville.....   | Maximum | 80 | 69 | 67 | 75 | 77 | 77 | 77 | 82 | 85 | 89 | 87 | 83 | 84 | 66 | 76 | 85 | 85 | 74 | 75 | 84 | 81 | 74 | 87 | 77 | 66 | 72 | 66 | 72 | 66 | 72   | 78.5 <sup>f</sup> |      |      |
|                   | Minimum | 41 | 48 | 41 | 39 | 44 | 43 | 49 | 49 | 56 | 51 | 49 | 46 | 42 | 40 | 45 | 38 | 33 | 37 | 43 | 54 | 41 | 39 | 45 | 35 | 39 | 45 | 35 | 35 | 33 | 33   | 43.2 <sup>f</sup> |      |      |
| Butler.....       | Maximum | 85 | 85 | 75 | 74 | 75 | 79 | 86 | 87 | 89 | 90 | 84 | 87 | 89 | 81 | 67 | 87 | 89 | 80 | 87 | 74 | 82 | 85 | 80 | 89 | 86 | 75 | 74 | 78 | 84 | 81.9 |                   |      |      |
|                   | Minimum | 59 | 49 | 59 | 48 | 50 | 58 | 49 | 42 | 52 | 52 | 66 | 59 | 50 | 50 | 52 | 51 | 45 | 50 | 50 | 38 | 42 | 48 | 64 | 56 | 45 | 50 | 56 | 44 | 48 | 42   | 39                | 50.4 |      |
| Carlisle.....     | Maximum | 98 | 94 | 86 | 75 | 80 | 77 | 85 | 82 | 89 | 92 | 91 | 92 | 93 | 91 | 86 | 83 | 88 | 94 | 88 | 83 | 86 | 86 | 83 | 90 | 91 | 92 | 93 | 78 | 76 | 76   | 86                | 86.6 |      |
|                   | Minimum | 66 | 55 | 53 | 61 | 51 | 57 | 52 | 53 | 61 | 63 | 65 | 65 | 67 | 59 | 56 | 47 | 68 | 56 | 60 | 46 | 46 | 51 | 65 | 66 | 51 | 49 | 58 | 49 | 52 | 51   | 43                | 56.2 |      |
| Catawissa.....    | Maximum | 96 | 86 | 71 | 75 | 80 | 77 | 85 | 84 | 91 | 93 | 92 | 96 | 93 | 86 | 77 | 78 | 85 | 91 | 79 | 79 | 84 | 87 | 84 | 87 | 86 | 90 | 86 | 77 | 74 | 74   | 78                | 83.9 |      |
|                   | Minimum | 57 | 47 | 47 | 47 | 52 | 48 | 46 | 59 | 58 | 70 | 59 | 57 | 69 | 58 | 56 | 46 | 47 | 57 | 41 | 42 | 49 | 54 | 60 | 47 | 49 | 54 | 44 | 45 | 46 | 42   | 51.6              |      |      |
| Chambersburg..... | Maximum | 97 | 88 | 80 | 75 | 79 | 75 | 81 | 78 | 87 | 90 | 91 | 91 | 90 | 89 | 77 | 78 | 85 | 91 | 84 | 77 | 80 | 80 | 76 | 86 | 83 | 87 | 89 | 77 | 71 | 73   | 83                | 82.8 |      |
|                   | Minimum | 65 | 56 | 56 | 62 | 50 | 57 | 54 | 56 | 61 | 64 | 68 | 62 | 61 | 63 | 59 | 53 | 50 | 58 | 61 | 44 | 48 | 53 | 63 | 61 | 51 | 51 | 53 | 51 | 55 | 51   | 44                | 56.2 |      |
| Claysville.....   | Maximum | 88 | 85 | 78 | 78 | 76 | 76 | 81 | 90 | 89 | 90 | 89 | 87 | 89 | 85 | 84 | 79 | 87 | 85 | 83 | 78 | 87 | 81 | 80 | 84 | 85 | 87 | 81 | 74 | 71 | 74   | 85                | 82.5 |      |
|                   | Minimum | 58 | 47 | 60 | 51 | 45 | 57 | 53 | 48 | 49 | 57 | 66 | 65 | 51 | 61 | 49 | 48 | 47 | 57 | 56 | 42 | 43 | 53 | 65 | 57 | 48 | 50 | 54 | 42 | 42 | 44   | 41                | 51.8 |      |
| Clearfield.....   | Maximum | 90 | 86 | 70 | 69 | 77 | 76 | 83 | 86 | 89 | 93 | 88 | 89 | 90 | 88 | 90 | 90 | 91 | 89 | 90 | 87 | 89 | 86 | 79 | 85 | 89 | 92 | 88 | 79 | 69 | 75   | 83                | 84.7 |      |
|                   | Minimum | 57 | 46 | 48 | 54 | 45 | 49 | 56 | 53 | 46 | 55 | 60 | 65 | 55 | 60 | 65 | 50 | 46 | 50 | 54 | 52 | 37 | 48 | 65 | 70 | 45 | 43 | 53 | 42 | 50 | 45   | 50                | 52.2 |      |
| Coatesville.....  | Maximum | 90 | 81 | 76 | 73 | 77 | 79 | 81 | 83 | 83 | 88 | 87 | 92 | 89 | 84 | 78 | 76 | 84 | 87 | 77 | 75 | 82 | 83 | 81 | 84 | 82 | 87 | 88 | 77 | 72 | 72   | 81                | 81.6 |      |
|                   | Minimum | 66 | 57 | 53 | 62 | 48 | 56 | 59 | 55 | 60 | 64 | 71 | 66 | 64 | 69 | 65 | 52 | 50 | 60 | 62 | 52 | 49 | 52 | 65 | 64 | 55 | 53 | 56 | 56 | 50 | 54   | 49                | 57.9 |      |
| Corry.....        | Maximum | 79 | 79 | 73 | 65 | 73 | 70 | 76 | 82 | 86 | 88 | 88 | 82 | 85 | 77 | 65 | 75 | 83 | 81 | 74 | 75 | 84 | 85 | 76 | 79 | 85 | 87 | 79 | 62 | 63 | 72   | 83                | 77.8 |      |
|                   | Minimum | 58 | 45 | 52 | 51 | 45 | 55 | 44 | 52 | 50 | 50 | 63 | 60 | 51 | 61 | 52 | 46 | 46 | 52 | 52 | 37 | 46 | 48 | 65 | 51 | 46 | 48 | 54 | 50 | 52 | 41   | 37                | 50.0 |      |
| Emporium.....     | Maximum | 82 | 76 | 66 | 66 | 71 | 74 | 79 | 80 | 85 | 83 | 82 | 82 | 81 | 76 | 68 | 73 | 82 | 82 | 71 | 72 | 78 | 84 | 77 | 78 | 81 | 83 | 76 | 63 | 64 | 69   | 79                | 76.0 |      |
|                   | Minimum | 52 | 45 | 45 | 55 | 42 | 53 | 51 | 43 | 57 | 57 | 62 | 58 | 54 | 51 | 54 | 48 | 52 | 49 | 38 | 42 | 46 | 68 | 58 | 47 | 62 | 56 | 43 | 52 | 50 | 53   | 51.4              |      |      |
| Erie.....         | Maximum | 74 | 72 | 69 | 65 | 72 | 71 | 72 | 75 | 84 | 86 | 82 | 74 | 81 | 75 | 64 | 70 | 76 | 78 | 68 | 70 | 78 | 84 | 77 | 76 | 78 | 83 | 72 | 65 | 65 | 70   | 78                | 74.3 |      |
|                   | Minimum | 65 | 56 | 60 | 58 | 61 | 62 | 57 | 62 | 65 | 71 | 65 | 61 | 64 | 56 | 59 | 58 | 65 | 58 | 51 | 58 | 62 | 70 | 64 | 59 | 65 | 61 | 58 | 58 | 53 | 53   | 60.4              |      |      |
| Franklin.....     | Maximum | 83 | 83 | 70 | 67 | 75 | 68 | 80 | 86 | 87 | 87 | 87 | 86 | 89 | 78 | 63 | 80 | 85 | 84 | 76 | 80 | 89 | 78 | 76 | 81 | 88 | 88 | 75 | 66 | 68 | 77   | 85                | 79.5 |      |
|                   | Minimum | 57 | 51 | 53 | 54 | 45 | 55 | 51 | 46 | 46 | 54 | 57 | 54 | 53 | 55 | 53 | 48 | 47 | 49 | 50 | 40 | 43 | 45 | 53 | 55 | 48 | 51 | 53 | 50 | 54 | 45   | 40                | 50.2 |      |
| Freeland.....     | Maximum | 87 | 76 | 72 | 67 | 71 | 71 | 73 | 76 | 81 | 82 | 83 | 85 | 80 | 73 | 70 | 68 | 79 | 81 | 76 | 69 | 75 | 78 | 74 | 77 | 78 | 82 | 80 | 68 | 66 | 66   | 76                | 75.5 |      |
|                   | Minimum | 68 | 50 | 58 | 53 | 48 | 54 | 53 | 55 | 56 | 65 | 67 | 63 | 63 | 64 | 59 | 52 | 54 | 60 | 56 | 47 | 51 | 57 | 57 | 61 | 54 | 61 | 63 | 49 | 50 | 50   | 51                | 56.4 |      |
| Gettysburg.....   | Maximum | 95 | 87 | 78 | 75 | 79 | 76 | 82 | 79 | 86 | 90 | 89 | 92 | 91 | 92 | 79 | 79 | 86 | 91 | 84 | 76 | 82 | 84 | 81 | 85 | 84 | 88 | 91 | 79 | 74 | 74   | 83                | 83.8 |      |
|                   | Minimum | 69 | 59 | 56 | 63 | 53 | 61 | 57 | 57 | 64 | 65 | 70 | 66 | 64 | 69 | 63 | 55 | 51 | 59 | 60 | 50 | 50 | 54 | 66 | 66 | 58 | 53 | 56 | 54 | 56 | 53   | 47                | 58.8 |      |
| Greensburg.....   | Maximum | 89 | 85 | 84 | 75 | 71 | 75 | 80 | 85 | 83 | 84 | 89 | 88 | 87 | 88 | 83 | 74 | 78 | 83 | 84 | 86 | 75 | 84 | 79 | 73 | 79 | 82 | 86 | 80 | 73 | 69   | 74                | 81   | 80.7 |
|                   | Minimum | 62 | 51 | 60 | 53 | 51 | 62 | 50 | 53 | 53 | 59 | 68 | 64 | 55 | 62 | 53 | 54 | 50 | 57 | 57 | 44 | 49 | 56 | 65 | 60 | 52 | 54 | 58 | 45 | 46 | 47   | 49                | 54.8 |      |
| Grove City.....   | Maximum | 88 | 77 | 75 | 69 | 72 | 71 | 74 | 81 | 82 | 87 | 86 | 87 | 88 | 83 | 74 | 78 | 83 | 84 | 86 | 75 | 84 | 79 | 73 | 79 | 82 | 86 | 80 | 73 | 69 | 74   | 81                | 80.7 |      |
|                   | Minimum | 62 | 49 | 57 | 50 | 47 | 57 | 49 | 48 | 54 | 54 | 65 | 61 | 52 | 58 | 53 | 49 | 48 | 53 | 54 | 41 | 46 | 50 | 63 | 56 | 50 | 52 | 59 | 47 | 54 | 45   | 41                | 52.4 |      |
| Hamburg.....      | Maximum | 92 | 84 | 84 | 76 | 75 | 74 | 76 | 82 | 84 | 86 | 89 | 89 | 92 | 90 | 84 | 78 | 79 | 82 | 88 | 78 | 82 | 84 | 84 | 83 | 86 | 84 | 80 | 82 | 84 | 88   | 89                | 83.8 |      |
|                   | Minimum | 64 | 56 | 49 | 46 | 44 | 54 | 55 | 53 | 55 | 70 | 64 | 62 | 58 | 58 | 56 | 48 | 49 | 48 | 48 | 55 | 50 | 52 | 65 | 64 | 50 | 53 | 49 | 52 | 60 | 50   | 47                | 54.4 |      |
| Harrisburg.....   | Maximum | 93 | 82 | 71 | 72 | 77 | 73 | 80 | 78 | 84 | 88 | 89 | 88 | 89 | 88 | 76 | 78 | 84 | 91 | 76 | 76 | 80 | 85 | 80 | 84 | 84 | 87 | 88 | 74 | 70 | 72   | 84                | 81.3 |      |
|                   | Minimum | 71 | 61 | 59 | 59 | 56 | 63 | 61 | 59 | 61 | 66 | 70 | 68 | 66 | 69 | 62 | 60 | 56 | 64 | 60 | 55 | 52 | 59 | 67 | 69 | 62 | 58 | 62 | 56 | 58 | 57   | 50                | 61.2 |      |
| Hawley.....       | Maximum | 49 | 84 | 79 | 67 | 74 | 77 | 77 | 81 | 85 | 85 | 89 | 90 | 83 | 78 | 77 | 73 | 83 | 85 | 82 | 74 | 81 | 84 | 79 | 82 | 84 | 88 | 83 | 74 | 68 | 69   | 80                | 80.1 |      |
|                   | Minimum | 52 | 47 | 44 | 55 | 48 | 49 | 43 | 41 | 58 | 54 | 67 | 58 | 56 | 55 | 55 | 52 | 51 | 57 | 40 | 39 | 42 | 57 | 60 | 44 | 43 | 51 | 43 | 41 | 46 | 40   | 49.9              |      |      |
| Huntingdon.....   | Maximum | 93 | 84 | 75 | 72 | 77 | 74 | 82 | 81 | 87 | 94 | 91 | 90 | 92 | 91 | 80 | 80 | 90 | 91 | 85 | 77 | 84 | 84 | 77 | 84 | 86 | 90 | 87 | 77 | 71 | 73   | 85                | 83.4 |      |
|                   | Minimum | 60 | 48 | 50 | 58 | 53 | 53 | 51 | 51 | 55 | 58 | 64 | 58 | 60 | 58 | 51 | 55 | 45 | 58 | 60 | 40 | 45 | 50 | 63 | 54 | 46 | 49 | 53 | 44 | 44 | 52   | 37                | 52.2 |      |
| Johnstown.....    | Maximum | 90 | 86 | 75 | 70 | 77 | 69 | 77 | 82 | 87 | 93 | 89 | 86 | 90 | 87 | 79 | 80 | 82 | 87 | 80 | 80 | 88 | 77 | 74 | 84 | 88 | 89 | 82 | 72 | 69 | 75   | 83                | 81.5 |      |
|                   | Minimum | 62 | 54 | 67 | 56 | 52 | 5  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |                   |      |      |







U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV.

SEPTEMBER, 1929.

No. 9

GENERAL SUMMARY.

September temperatures averaged above the normal in nearly all parts of the State as a result of excessive heat during the first week. A new September maximum was established by a temperature of 101° at Lewisburg on the 3d. Before the beginning of the State Weather Service in 1888, a maximum of 102° was recorded at Philadelphia. This was on September 7, 1881. Frosts and freezing temperatures covered the greater portion of the State from the 19th to the 21st inclusive, doing some damage to late corn and killing garden vegetation in some sections. No unusual losses were sustained as such frosts after the middle of the month are normal in the northern counties and in a large portion of the mountain region. The drought that gradually developed during July and August was broken in the eastern portion of the State at the beginning of the second week, but continued in western counties until the middle of the month. Silo filling and the digging of the early potato crop progressed up to the end of the third week, after which the seeding of winter wheat became the chief occupation. The soil was generally in good condition for seeding and the work was well advanced at the end of the month. The drought stunted the late potato crop very badly and many of the vines dried up with only small tubers developed. Pastures improved rapidly after the breaking of the drought, and were mostly in good condition at the close of the month. Severe local storms accompanied the breaking of the drought in some sections, and damage resulted from lightning and high winds with some damage by the sudden flooding of small streams. The larger streams were not raised to flood stages. Lightning damage, chiefly from the burning of barns, probably exceeded \$100,000.

TEMPERATURE.

The mean temperature for the State, as shown by reports from 37 stations, was 65.7°, an excess of 1.7° as compared with the September normal. The highest monthly mean was 71.5° at Holtwood, and the lowest, 59.1° at Brookville. Extremes for the month ranged from a maximum of 101°, at Lewisburg on the 3d, to a minimum of 24°, at Brookville and Kylertown on the 19th. The greatest daily range of temperature was 51°, at Franklin on the 1st.

PRECIPITATION.

The average precipitation for the State, as determined by reports from 135 well-distributed stations, was 3.71 inches, which is 0.23 inch greater than the monthly normal. The greatest monthly amount was 8.72 inches, at Zelienople, while the lowest, 1.05 inches was reported from Pittsburgh. The greatest amount recorded in any 24 consecutive hours was 5.08 inches, at Hollisterville on the 7-8th.

SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                        |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|-------------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total move-<br>ment, in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                               | Average                     | *Highest | Direction | Date |
| Erie.....         | 201.2                   | 374.3                    | 54                     | 72               | 66       | 69      | 7,701                         | 10.7                        | 34       | sw.       | 10   |
| Harrisburg.....   | 235.2                   | 373.5                    | 63                     | 77               | 55       | 65      | 3,203                         | 4.4                         | 21       | ne.       | 7    |
| Philadelphia..... | 227.8                   | 373.5                    | 61                     | 76               | 57       | 68      | 7,644                         | 10.6                        | 44       | sw.       | 8    |
| Pittsburgh.....   | 222.1                   | 374.0                    | 59                     | 78               | 53       | 57      | 4,739                         | 6.6                         | 32       | w.        | 10   |
| Reading.....      | 226.8                   | 373.5                    | 61                     | 76               | 56       | 68      | 3,170                         | 4.4                         | 22       | w.        | 14   |
| Scranton.....     | 221.7                   | 374.0                    | 59                     | 81               | 56       | 69      | 3,475                         | 4.8                         | 22       | sw.       | 13   |

\* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR SEPTEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 59.6        |         |        | 4.84          |          |       |             |               |        |                        |
| 1889..... | 61.9        |         |        | 5.05          |          |       |             |               |        |                        |
| 1890..... | 62.2        | 91      | 25     | 4.57          | 8.54     | 2.05  | 10          | 9             | 11     | 11                     |
| 1891..... | 66.6        | 94      | 32     | 2.39          | 5.00     | 1.05  | 17          | 8             | 5      |                        |
| 1892..... | 62.4        | 90      | 29     | 2.81          | 4.85     | 1.18  | 16          | 7             | 7      | 7                      |
| 1893..... | 61.2        | 90      | 26     | 2.67          | 5.59     | 0.72  | 9           | 12            | 9      | 8                      |
| 1894..... | 66.6        | 95      | 24     | 6.30          | 12.36    | 2.82  | 10          | 10            | 10     | 10                     |
| 1895..... | 67.8        | 100     | 24     | 1.71          | 5.41     | 0.37  | 16          | 9             | 5      | 6                      |
| 1896..... | 63.6        | 98      | 26     | 4.82          | 8.57     | 1.73  | 13          | 8             | 9      | 10                     |
| 1897..... | 63.8        | 100     | 24     | 2.18          | 4.21     | 0.25  | 18          | 7             | 5      | 5                      |
| 1898..... | 66.0        | 100     | 25     | 1.70          | 3.95     | 0.38  | 16          | 8             | 6      | 6                      |
| 1899..... | 61.8        | 93      | 23     | 4.70          | 9.31     | 2.03  | 12          | 9             | 9      | 10                     |
| 1900..... | 68.4        | 100     | 27     | 1.77          | 6.90     | 0.48  | 13          | 10            | 7      | 6                      |
| 1901..... | 63.6        | 95      | 29     | 3.39          | 6.61     | 1.64  | 14          | 7             | 9      | 9                      |
| 1902..... | 62.7        | 99      | 28     | 4.66          | 11.95    | 1.50  | 12          | 8             | 10     | 11                     |
| 1903..... | 63.2        | 94      | 27     | 2.09          | 3.88     | 0.91  | 17          | 8             | 5      | 6                      |
| 1904..... | 63.7        | 95      | 21     | 3.37          | 7.40     | 0.82  | 13          | 10            | 7      | 9                      |
| 1905..... | 64.0        | 95      | 27     | 3.41          | 7.30     | 1.70  | 15          | 9             | 6      | 7                      |
| 1906..... | 67.0        | 99      | 30     | 2.46          | 6.57     | 0.36  | 15          | 9             | 6      | 7                      |
| 1907..... | 64.8        | 95      | 29     | 6.37          | 11.86    | 2.18  | 8           | 10            | 12     | 14                     |
| 1908..... | 65.6        | 99      | 26     | 1.60          | 4.06     | 0.51  | 17          | 9             | 4      | 3                      |
| 1909..... | 62.8        | 96      | 26     | 2.27          | 4.90     | 0.64  | 15          | 9             | 6      | 6                      |
| 1910..... | 65.5        | 95      | 32     | 4.49          | 8.45     | 2.26  | 13          | 8             | 9      | 10                     |
| 1911..... | 64.9        | 92      | 26     | 5.29          | 10.18    | 1.85  | 13          | 9             | 8      | 10                     |
| 1912..... | 65.5        | 95      | 25     | 5.57          | 11.43    | 2.47  | 12          | 7             | 11     | 12                     |
| 1913..... | 62.4        | 97      | 24     | 3.28          | 8.43     | 1.24  | 13          | 7             | 10     | 8                      |
| 1914..... | 61.5        | 98      | 21     | 0.99          | 2.67     | 0.03  | 18          | 7             | 5      | 5                      |
| 1915..... | 66.5        | 96      | 25     | 2.56          | 6.96     | 0.45  | 16          | 9             | 5      | 8                      |
| 1916..... | 62.5        | 98      | 23     | 3.77          | 8.18     | 0.91  | 17          | 8             | 5      | 8                      |
| 1917..... | 59.0        | 91      | 25     | 2.31          | 6.34     | 0.00  | 16          | 9             | 5      | 6                      |
| 1918..... | 58.7        | 88      | 28     | 3.97          | 7.52     | 1.82  | 12          | 8             | 10     | 10                     |
| 1919..... | 64.4        | 96      | 28     | 2.07          | 4.09     | 0.46  | 16          | 8             | 6      | 8                      |
| 1920..... | 64.5        | 91      | 24     | 3.99          | 9.40     | 0.97  | 16          | 8             | 6      | 9                      |
| 1921..... | 68.9        | 98      | 31     | 4.68          | 11.48    | 1.47  | 13          | 9             | 8      | 11                     |
| 1922..... | 66.3        | 100     | 22     | 1.48          | 3.73     | 0.17  | 19          | 7             | 4      | 4                      |
| 1923..... | 64.8        | 92      | 22     | 3.55          | 8.68     | 1.54  | 13          | 10            | 7      | 10                     |
| 1924..... | 59.8        | 99      | 26     | 6.44          | 11.72    | 3.46  | 11          | 7             | 12     | 11                     |
| 1925..... | 67.5        | 99      | 24     | 2.80          | 7.63     | 0.86  | 11          | 12            | 7      | 8                      |
| 1926..... | 64.2        | 99      | 26     | 5.81          | 13.90    | 2.23  | 11          | 7             | 12     | 12                     |
| 1927..... | 64.9        | 97      | 27     | 2.08          | 7.00     | 0.20  | 18          | 7             | 5      | 6                      |
| 1928..... | 60.4        | 94      | 25     | 2.33          | 5.73     | 0.71  | 12          | 9             | 9      | 9                      |
| 1929..... | 65.7        | 101     | 24     | 3.71          | 8.72     | 1.05  | 14          | 8             | 8      | 9                      |

RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
|                   |                   |            |               |      |              |      |             |
| Port Jervis.....  | Delaware.....     | 1.9        | 2.3           | 20   | 1.1          | 3    | 18          |
| Phillipsburg..... | Delaware.....     | 1.0        | 2.2           | 18   | 0.2          | 11   | 22          |
| Mauch Chunk.....  | Lehigh.....       | -3.7       | -1.7          | 14   | -4.1         | 1    | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 1.5        | 1.9           | 15   | 1.2          | 7    | 20          |
| Williamsport..... | Susquehanna.....  | 0.0        | 0.4           | 12   | -0.2         | 2    | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.2        | 3.5           | 16   | 3.0          | 4    | 17          |
| Greensboro.....   | Monongahela.....  | 11.1       | 12.5          | 19   | 9.6          | 7    | 30          |
| West Newton.....  | Youghiogheny..... | 0.6        | 1.9           | 8    | 0.3          | 4    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.6       | 14.0          | 20   | 12.0         | 7    | 31          |
| Pittsburgh.....   | Ohio.....         | 9.9        | 10.5          | 19   | 9.6          | 5    | 25          |
| Beaver Dam.....   | Ohio.....         | 7.5        | 7.8           | 20   | 7.2          | 6    | 30          |



## Climatological Data for September, 1929

| Stations            | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                          |       |            | Prevailing direction of wind | Observers |                              |
|---------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|--------------------------|-------|------------|------------------------------|-----------|------------------------------|
|                     |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation in or more | Clear | Pt. cloudy |                              |           | Cloudy                       |
| Atlantic Drainage.  |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                          |       |            |                              |           |                              |
| Allentown           | Lehigh       | 254             | 17                      | 66.8                         | .....                     | 96      | 3    | 40     | 19†  | 39                       | 5.09  | +1.74                     | 1.63                 | 0                         | 10                       | 13    | 16         | 1                            | ne.       | John A. Frick.               |
| Altoona             | Blair        | 1,615           | 42                      | 67.1                         | +4.4                      | 94      | 3    | 36     | 19   | 36                       | 2.70  | -0.08                     | 1.07                 | 0                         | 8                        | 17    | 6          | 7                            | e.        | F. E. Rooney.                |
| Arendtsville        | Adams        | 700             | 5                       | 67.1                         | .....                     | 98      | 1†   | 34     | 19†  | 40                       | 2.28  | .....                     | 0.65                 | 0                         | 10                       | 18    | 4          | 8                            | n.        | Dr. S. W. Frost.             |
| Bellefonte          | Center       | 1,050           | 24                      | 64.2                         | .....                     | 95      | 3    | 29     | 19   | 45                       | 3.19  | -0.10                     | 0.93                 | 0                         | 12                       | 9     | 11         | 10                           | s.        | U. S. Weather Bureau.        |
| Bethlehem           | Northampton  | 364             | 45                      | 63.6                         | +2.4                      | 96      | 2†   | 40     | 19†  | 38                       | 3.92  | +0.53                     | 1.18                 | 0                         | 10                       | 16    | 5          | 9                            | sw.       | Lehigh University.           |
| Carlisle            | Cumberland   | 467             | 62                      | 67.8                         | +3.1                      | 100     | 3†   | 32     | 21   | 44                       | 3.09  | -0.53                     | 0.89                 | 0                         | 9                        | 14    | 9          | 7                            | .....     | Prof. C. E. Miller.          |
| Catawissa           | Columbia     | 520             | 32                      | 65.0                         | +1.5                      | 97      | 3    | 31     | 21†  | 47                       | 4.32  | +0.92                     | 2.15                 | 0                         | 9                        | 20    | 5          | 5                            | .....     | H. H. Yetter.                |
| Center Hall         | Center       | 1,272           | 33                      | 64.2                         | +2.2                      | 96      | 3    | 30     | 21   | 43                       | 3.95  | +0.96                     | 0.78                 | 0                         | 9                        | 21    | 1          | 8                            | .....     | S. W. Smith.                 |
| Chambersburg        | Franklin     | 580             | 29                      | 66.6                         | +0.7                      | 93      | 3    | 34     | 19   | 40                       | 3.94  | +1.20                     | 1.59                 | 0                         | 7                        | 14    | 13         | 3                            | ne.       | William B. Spear.            |
| Clearfield          | Clearfield   | 1,120           | 19                      | 66.4                         | +3.2                      | 98      | 3    | 27     | 19   | 50                       | 3.21  | -0.57                     | 0.92                 | 0                         | 11                       | 15    | 6          | 9                            | w.        | E. W. Hess.                  |
| Coatesville         | Chester      | 380             | 41                      | 67.2                         | +1.1                      | 93      | 2†   | 35     | 21   | 40                       | 3.39  | -0.51                     | 0.90                 | 0                         | 8                        | 12    | 12         | 6                            | s.        | Prof. W. T. Gordon.          |
| Colebrook           | Lebanon      | 560             | 19                      | 64.6                         | +0.5                      | 94      | 2    | 33     | 19   | 38                       | 6.57  | +3.04                     | 1.65                 | 0                         | 9                        | 17    | 3          | 10                           | w.        | Wm. A. Rorer.                |
| Emporium            | Cameron      | 1,050           | 41                      | 62.6                         | +1.2                      | 88      | 3    | 28     | 21   | 39                       | 2.14  | -1.30                     | 0.68                 | 0                         | 8                        | 18    | 6          | 6                            | w.        | T. B. Lloyd.                 |
| Ephrata             | Lancaster    | 380             | 28                      | 66.9                         | +1.4                      | 94      | 2†   | 37     | 19   | 38                       | 4.79  | +1.31                     | 1.53                 | 0                         | 9                        | 13    | 9          | 8                            | s.        | Ira J. Keath.                |
| Freeland            | Luzerne      | 1,970           | 14                      | 64.8                         | .....                     | 90      | 3    | 33     | 19   | 28                       | 5.09  | .....                     | 2.46                 | 0                         | 10                       | 11    | 10         | 9                            | nw.       | Theo. Reichmann.             |
| George School       | Bucks        | 190             | 22                      | 68.0                         | +3.1                      | 98      | 3    | 37     | 19   | 43                       | 5.93  | +2.91                     | 2.94                 | 0                         | 9                        | 13    | 4          | 8                            | s.        | Prof. N. W. Swayne.          |
| Gettysburg          | Adams        | 553             | 55                      | 68.4                         | +3.4                      | 98      | 3    | 37     | 19   | 38                       | 2.16  | -1.21                     | 0.70                 | 0                         | 8                        | 14    | 9          | 7                            | s.        | Dr. Henry Stewart.           |
| Gordon              | Schuylkill   | 840             | 25                      | 63.8                         | +2.0                      | 94      | 3    | 28     | 21   | 45                       | 3.48  | -0.98                     | 1.56                 | 0                         | 8                        | 17    | 4          | 9                            | e.        | Capt. J. G. Johnson.         |
| Gouldsboro          | Wayne        | 1,875           | 5                       | 59.9                         | .....                     | 90      | 3†   | 26     | 20   | 48                       | 4.91  | +1.59                     | 1.65                 | 0                         | 11                       | 17    | 7          | 6                            | sw.       | Gustav Holtz.                |
| Hamburg             | Berks        | 535             | 36                      | 66.2                         | +0.7                      | 96      | 3    | 36     | 19†  | 41                       | 7.12  | +2.92                     | 2.15                 | 0                         | 9                        | 18    | 3          | 9                            | w.        | State Sanatorium.            |
| Hanover             | York         | 600             | 25                      | 68.6                         | +1.4                      | 97      | 3    | 38     | 19   | 36                       | 4.53  | +1.68                     | 0.88                 | 0                         | 8                        | 17    | 9          | 4                            | s.        | Thomas Y. Cooper.            |
| Harrisburg          | Dauphin      | 361             | 59                      | 67.4                         | +1.6                      | 96      | 3    | 41     | 21   | 32                       | 5.10  | +2.05                     | 1.60                 | 0                         | 9                        | 8     | 12         | 10                           | ne.       | U. S. Weather Bureau.        |
| Hawley              | Wayne        | 900             | 10                      | 63.2                         | .....                     | 94      | 3    | 28     | 21   | 44                       | 2.80  | .....                     | 1.55                 | 0                         | 6                        | 17    | 8          | 5                            | nw.       | Mrs. Della M. Pennell.       |
| Holtwood            | Lancaster    | 200             | 14                      | 71.5                         | .....                     | 100     | 3    | 45     | 19   | 36                       | 3.85  | +1.48                     | 1.40                 | 0                         | 10                       | 13    | 8          | 9                            | .....     | H. W. Lowy, C. E.            |
| Huntingdon          | Huntingdon   | 650             | 41                      | 66.1                         | +1.8                      | 97      | 3    | 30     | 19   | 48                       | 2.38  | -1.04                     | 0.69                 | 0                         | 11                       | 11    | 13         | 6                            | ne.       | Prof. H. A. Conner.          |
| Hyndman             | Bedford      | 977             | 18                      | 67.8                         | +3.3                      | 97      | 3†   | 30     | 19   | 46                       | 2.08  | -1.08                     | 0.45                 | 0                         | 11                       | 10    | 5          | 15                           | .....     | Horace A. Sheavly.           |
| Kylertown           | Clearfield   | 1,637           | .....                   | 63.1                         | .....                     | 90      | 3    | 24     | 19   | 41                       | 2.55  | .....                     | 0.96                 | 0                         | 8                        | 14    | 9          | 7                            | w.        | U. S. Bureau Plant Industry. |
| Lancaster           | Lancaster    | 255             | 41                      | 66.3                         | +1.8                      | 98      | 2    | 32     | 19   | 46                       | 3.32  | -0.02                     | 0.77                 | 0                         | 8                        | 21    | 2          | 7                            | s.        | Supt. of Water Works.        |
| Lawrenceville       | Tioga        | 1,000           | 31                      | 60.8                         | -0.5                      | 90      | 6    | 27     | 19   | 47                       | 3.83  | +0.80                     | 1.80                 | 0                         | 11                       | 16    | 7          | 7                            | .....     | C. P. Darling.               |
| Lebanon             | Lebanon      | 469             | 88                      | 66.4                         | +1.2                      | 95      | 2†   | 38     | 19   | 37                       | 6.23  | +3.05                     | 1.60                 | 0                         | 10                       | 13    | 14         | 3                            | ne.       | S. B. Benzing.               |
| Lewisburg           | Union        | 450             | 54                      | 68.8                         | +6.6                      | 101     | 3    | 34     | 19†  | 48                       | 4.05  | +0.52                     | 2.00                 | 0                         | 7                        | 10    | 12         | 8                            | s.        | Prof. W. G. Owens.           |
| Lock Haven          | Clinton      | 560             | 39                      | 66.8                         | +2.1                      | 94      | 2†   | 34     | 19†  | 40                       | 2.61  | -0.89                     | 0.69                 | 0                         | 11                       | 13    | 13         | 4                            | ne.       | Joseph Beaver.               |
| Lykens              | Dauphin      | 680             | 14                      | 65.4                         | +1.2                      | 96      | 3    | 30     | 21†  | 43                       | 6.29  | +1.66                     | 2.67                 | 0                         | 10                       | 17    | 9          | 4                            | ne.       | Susquehanna Collieries Co.   |
| Mauch Chunk         | Carbon       | 600             | 38                      | 62.2                         | -1.8                      | 100     | 3    | 30     | 21   | 49                       | 5.33  | +1.46                     | 1.87                 | 0                         | 9                        | 19    | 4          | 7                            | s.        | R. K. Wintermute.            |
| Mifflintown         | Juniata      | 445             | 25                      | 66.4                         | +2.6                      | 97      | 3    | 32     | 19   | 44                       | 4.45  | +0.66                     | 1.84                 | 0                         | 8                        | 13    | 4          | 13                           | w.        | Wellington Smith.            |
| Montrose            | Susquehanna  | 1,720           | 26                      | 62.6                         | +2.5                      | 92      | 3    | 31     | 19†  | 46                       | 2.40  | -1.52                     | 1.13                 | 0                         | 5                        | 17    | 7          | 6                            | s.        | Silas Jagger.                |
| Mt. Pocono          | Monroe       | 1,658           | 25                      | 62.5                         | +4.4                      | 88      | 4    | 28     | 19   | 32                       | 7.43  | +2.54                     | 3.30                 | 0                         | 11                       | 15    | 3          | 12                           | nw.       | Cecil J. Hoskinson.          |
| Muncy Valley        | Sullivan     | 1,045           | 17                      | 63.7                         | +2.3                      | 95      | 3    | 28     | 19   | 47                       | 3.57  | +0.09                     | 2.19                 | 0                         | 9                        | 16    | 9          | 5                            | sw.       | H. O. Hacker.                |
| Narberth            | Montgomery   | 300             | 10                      | 67.3                         | .....                     | 96      | 3    | 39     | 19   | 37                       | 5.47  | .....                     | 2.10                 | 0                         | 10                       | 13    | 6          | 11                           | sw.       | Charles Decker.              |
| Neshaminy Falls     | Bucks        | 60              | 40                      | 66.8                         | +1.4                      | 97      | 2†   | 40     | 21   | 40                       | 6.21  | .....                     | 3.12                 | 0                         | 9                        | 19    | 3          | 8                            | s.        | North Springfield Water Co.  |
| Palmerton           | Carbon       | 398             | 12                      | 64.4                         | .....                     | 94      | 3    | 33     | 21†  | 40                       | 3.80  | .....                     | 1.34                 | 0                         | 9                        | 9     | 13         | 8                            | ne.       | New Jersey Zinc Co.          |
| Philadelphia        | Philadelphia | 114             | 58                      | 70.3                         | +2.3                      | 94      | 3    | 45     | 19   | 27                       | 6.51  | +3.37                     | 3.00                 | 0                         | 9                        | 11    | 8          | 11                           | sw.       | U. S. Weather Bureau.        |
| Philadelphia-Gtn.   | Philadelphia | 113             | 5                       | 69.7                         | .....                     | 96      | 3    | 42     | 19   | 30                       | 6.78  | .....                     | 2.14                 | 0                         | 10                       | 11    | 10         | 9                            | .....     | Julius Bernstein.            |
| Phila. Navy Yard    | Philadelphia | 12              | 13                      | 69.2                         | +1.2                      | 93      | 4    | 43     | 19   | 32                       | 5.40  | +2.33                     | 2.12                 | 0                         | 9                        | 12    | 3          | 15                           | sw.       | Commandant, Navy Yard.       |
| Phila. Point Breeze | Philadelphia | 90              | 4                       | 70.2                         | .....                     | 96      | 3    | 45     | 19   | 31                       | 6.38  | .....                     | 3.47                 | 0                         | 9                        | 10    | 10         | 10                           | sw.       | Atlantic Refining Co.        |
| Phoenixville        | Chester      | 100             | 18                      | 68.7                         | +2.3                      | 98      | 3    | 35     | 22   | 40                       | 4.68  | +1.60                     | 1.05                 | 0                         | 8                        | 17    | 9          | 4                            | s.        | North Springfield Water Co.  |
| Quakertown          | Bucks        | 496             | 44                      | 66.1                         | +2.5                      | 94      | 2†   | 36     | 19†  | 43                       | 5.23  | +1.57                     | 2.04                 | 0                         | 11                       | 14    | 7          | 9                            | ne.       | John E. Benner.              |
| Reading             | Berks        | 325             | 59                      | 68.0                         | +1.7                      | 96      | 3    | 41     | 19   | 31                       | 4.31  | +1.10                     | 1.16                 | 0                         | 9                        | 13    | 8          | 9                            | se.       | U. S. Weather Bureau.        |
| Scranton            | Lackawanna   | 805             | 34                      | 65.6                         | +2.7                      | 96      | 3    | 35     | 21   | 40                       | 3.26  | +0.09                     | 1.54                 | 0                         | 8                        | 9     | 13         | 8                            | sw.       | U. S. Weather Bureau.        |
| Selinsgrove         | Snyder       | 455             | 39                      | 67.4                         | +3.0                      | 97      | 3    | 34     | 19†  | 46                       | 3.83  | +0.17                     | 1.73                 | 0                         | 7                        | 15    | 12         | 3                            | sw.       | Dr. George E. Fisher.        |
| Shawmont            | Philadelphia | 51              | 33                      | 68.8                         | .....                     | 93      | 2†   | 42     | 19†  | 32                       | 4.64  | +1.41                     | 1.83                 | 0                         | 10                       | 14    | 8          | 8                            | s.        | W. S. Guiles.                |
| State College       | Center       | 1,217           | 44                      | 65.5                         | +3.1                      | 95      | 3    | 32     | 19   | 37                       | 3.85  | +0.79                     | 1.09                 | 0                         | 12                       | 12    | 11         | 7                            | sw.       | C. A. Kern.                  |
| Stroudsburg         | Monroe       | 500             | 13                      | 64.0                         | +1.7                      | 95      | 2†   | 30     | 21   | 43                       | 3.51  | +0.56                     | 1.21                 | 0                         | 9                        | 15    | 5          | 10                           | w.        | State Normal School.         |
| Towanda             | Bradford     | 754             | 34                      | 64.4                         | +2.4                      | 95      | 2    | 31     | 21   | 41                       | 3.44  | +0.41                     | 1.57                 | 0                         | 9                        | 15    | 8          | 7                            | s.        | Hiram E. Bull, C. E.         |
| Wellsboro           | Tioga        | 1,419           | 63                      | 61.4                         | +1.7                      | 93      | 2†   | 28     | 19†  | 45                       | 4.27  | +1.06                     | 1.95                 | 0                         | 9                        | 19    | 3          | 8                            | w.        | George W. Hill.              |
| West Chester        | Chester      | 455             | 91                      | 67.2                         | +1.9                      | 91      | 2†   | 41     | 19†  | 31                       | 4.90  | +0.98                     | 1.45                 | 0                         | 9                        | 15    | 10         | 5                            | sw.       | Joseph W. Belt.              |
| Williamsport        | Lycoming     | 521             | 42                      | 66.8                         | +2.9                      | 98      | 3    | 34     | 20†  | 45                       | 2.64  | -0.57                     | 1.49                 | 0                         | 11                       | 11    | 9          | 10                           | se.       | Miss Veronica E. April.      |
| York                | York         | 400             | 41                      | 66.8                         | +1.2                      | 98      | 3    | 33     | 19   | 45                       | 3.98  | +0.65                     | 0.77                 | 0                         | 8                        | 17    | 10         | 3                            | n.        | York Water Co.               |
| Ohio Drainage.      |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                          |       |            |                              |           |                              |
| Beaver Dam          | Beaver       | 700             | 36                      | 66.6                         | +0.4                      | 91      | 3    | 35     | 19   | 37                       | 2.93  | +0.34                     | 0.72                 | 0                         | 11                       | 11    | 9          | 10                           | sw.       | U. S. Engineer.              |
| Bradford            | McKean       | 1,460           | 14                      | 64.2                         | .....                     | 92      | 2†   | 30     | 21   | 42                       | 4.57  | .....                     | 1.12                 | 0                         | 11                       | 11    | 9          | 10                           | s.        | Supt. Timber Pres. Plant.    |
| Brookville          | Jefferson    | 1,173           | 38                      | 59.1†                        | -0.6                      | 91      | 2    | 24     | 19   | 47                       | 2.55  | -0.77                     | 0.55                 | 0                         | 9                        | 16    | 9          | 5                            | .....     | John Fawcett.                |
| Butler              | Butler       | 1,152           | 4                       | 66.6                         | .....                     | 93      | 4    | 29     | 19   | 43                       | 5.98  | .....                     | 1.80                 | 0                         | 9                        | 15    | 2          | 13                           | nw.       | William C. Faust.            |
| Claysville          | Washington   | 1,150           | 25                      | 66.7                         | +1.5                      | 94      | 3†   | 28     | 19   | 44                       | 2.45  | -0.35                     | 0.75                 | 0                         | 12                       | 19    | 5          | 6                            | w.        | J. L. Melvin.                |



### Daily Precipitation for September, 1929

| Stations           | Drainage Basin | Day of month |   |   |     |        |      |      |      |      |      |     |    |     |      |      |     |      |     |     |    |    |    |    |    |    |    |    |     |     |      |      | Total |      |
|--------------------|----------------|--------------|---|---|-----|--------|------|------|------|------|------|-----|----|-----|------|------|-----|------|-----|-----|----|----|----|----|----|----|----|----|-----|-----|------|------|-------|------|
|                    |                | 1            | 2 | 3 | 4   | 5      | 6    | 7    | 8    | 9    | 10   | 11  | 12 | 13  | 14   | 15   | 16  | 17   | 18  | 19  | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28  | 29  | 30   | 31   |       |      |
| Atlantic Drainage. |                |              |   |   |     |        |      |      |      |      |      |     |    |     |      |      |     |      |     |     |    |    |    |    |    |    |    |    |     |     |      |      |       |      |
| Allentown\|\|\| | Lehigh         |              |   |   |     | .28    |      | 1.63 | 1.48 | .01  |      |     |    |     | .76  | .23  |     | .30  | .31 |     |    |    |    |    |    |    |    |    |     | .02 | .07  | 5.09 |       |      |
| Altoona            | Juniata        |              |   |   |     | .12    | T.   | 1.07 | .60  | .05  |      |     |    | .03 | T.   | .07  |     | .70  | .03 |     |    |    |    |    |    |    |    |    |     | .10 | T.   | 2.70 |       |      |
| Ansonia\|\|\| | W. Br. Susq.   |              |   |   |     |        |      | .74  | .92  | 1.17 | .02  |     |    |     | .20  | .07  |     | .26  | T.  |     |    |    |    |    |    |    |    |    |     | .06 | .35  | 3.86 |       |      |
| Arendtsville\|\|\| | Lower Susq.    |              |   |   | .52 |        |      | .09  | .07  | .02  | .06  |     |    |     | .50  | .13  |     | .32  | .10 |     |    |    |    |    |    |    |    |    |     |     |      | 2.28 |       |      |
| Baker's Summit     | Juniata        |              |   |   |     | .16    |      | .01  | 1.11 |      |      |     |    |     | .90  | .13  |     | .09  | .80 |     |    |    |    |    |    |    |    |    |     | .03 |      | 2.83 |       |      |
| Bellefonte***      | W. Br. Susq.   |              |   |   | .01 | T.     |      | .41  | .22  | .24  | .22  | T.  |    |     | .93  | .05  |     | .06  | .55 | T.  |    |    |    |    |    |    |    |    |     | .41 | .06  | 3.19 |       |      |
| Bethlehem          | Lehigh         |              |   |   |     | T.     |      | .26  |      | 1.18 | .93  | T.  |    |     | .01  | .46  | .25 | .06  | .66 | .08 |    |    |    |    |    |    |    |    |     | .05 | .04  | 3.92 |       |      |
| Blossersville†     | Lower Susq.    |              |   |   |     | .02    | .05  | .02  | .80  | .08  |      |     |    |     | .78  | .10  |     | 1.35 |     |     |    |    |    |    |    |    |    |    |     | .45 | .05  | 3.75 |       |      |
| Carlisle           | Lower Susq.    |              |   |   |     | T.     |      | .02  | .07  | .54  | .27  | .23 |    |     | T.   | .89  |     | .70  |     |     |    |    |    |    |    |    |    |    |     | .18 | .24  | 3.09 |       |      |
| Catawissa          | N. Br. Susq.   |              |   |   |     | .11    |      | .31  | .01  | T.   | .07  |     |    |     | 2.15 | .35  |     | .97  |     |     |    |    |    |    |    |    |    |    |     | .27 |      | 4.32 |       |      |
| Center Hall        | Susquehanna    |              |   |   |     |        |      | .65  | .51  | .22  |      |     |    |     | .62  | .15  |     | .78  |     |     |    |    |    |    |    |    |    |    | .08 | .12 | .48  | 3.95 |       |      |
| Chambersburg       | Potomac        |              |   |   |     |        |      | .04  | .20  | .79  |      |     |    |     | .76  |      |     | 1.59 |     |     |    |    |    |    |    |    |    |    |     | .39 | .17  | 3.94 |       |      |
| Clearfield         | W. Br. Susq.   |              |   |   |     |        |      | .05  | .02  | .52  | .54  | .05 |    |     | .92  | .10  | .03 | T.   | .06 |     |    |    |    |    |    |    |    |    |     | T.  | .82  | .10  | 3.21  |      |
| Coatesville        | Lower Del.     |              |   |   |     | .42    | .07  | T.   |      | .61  | .36  |     |    |     | .90  |      |     | T.   | .17 |     |    |    |    |    |    |    |    |    |     | .10 | .76  | 3.39 |       |      |
| Colebrook          | Lower Susq.    |              |   |   |     | 1.06   | .02  | T.   | 1.65 | .34  | .01  |     |    |     | 1.38 |      |     | .40  |     |     |    |    |    |    |    |    |    |    |     | .61 | 1.10 | 6.57 |       |      |
| Conshohocken       | Schuylkill     |              |   |   |     | .68    | .20  | .05  | .67  | .02  | .10  |     |    |     | .32  | .21  |     | .21  |     |     |    |    |    |    |    |    |    |    |     | T.  | .86  | 3.32 |       |      |
| Cresskill          | Juniata        |              |   |   |     |        |      | .40  | .42  | .40  |      |     |    |     | .10  | .12  |     | .38  | .43 |     |    |    |    |    |    |    |    |    |     |     | .07  | 2.32 |       |      |
| Doylestown         | Lower Del.     |              |   |   |     | .02    | .61  | .01  | .96  | .10  | .55  |     |    |     | T.   | .55  | .19 |      | .23 |     |    |    |    |    |    |    |    |    |     | .15 | .89  | 4.26 |       |      |
| Driftwood\|\|\| | W. Br. Susq.   |              |   |   |     |        |      | .40  | 2.70 |      | .32  |     |    |     | .30  | .30  | .14 |      | .35 | .15 |    |    |    |    |    |    |    |    |     | T.  | .12  | 4.81 |       |      |
| Emporium           | do.            |              |   |   |     |        |      | .07  | .08  | .15  | .68  | .08 |    |     | .40  | .26  |     | .42  |     |     |    |    |    |    |    |    |    |    |     | T.  | T.   | 2.14 |       |      |
| Exhata             | Lower Susq.    |              |   |   |     | .17    | .11  |      | .62  | .30  | .22  |     |    |     | .58  | T.   |     | 1.53 | T.  |     |    |    |    |    |    |    |    |    |     | .40 | .86  | 4.79 |       |      |
| Forest City        | N. Br. Susq.   |              |   |   |     |        | .05  |      | .55  |      |      |     |    |     | .85  | .40  |     | .65  |     |     |    |    |    |    |    |    |    |    |     | T.  | T.   | 2.50 |       |      |
| Freeland\|\|\| | Lehigh         |              |   |   |     | .17    |      | .98  | .23  |      | .55  |     |    |     | 2.10 | .36  |     | .40  | .11 |     |    |    |    |    |    |    |    |    |     | .09 | .10  | 5.09 |       |      |
| George School      | Lower Del.     |              |   |   |     | .01    | .88  |      | 2.94 | .19  | .09  |     |    |     | .52  |      |     | .32  | T.  |     |    |    |    |    |    |    |    |    |     | .22 | .76  | 5.93 |       |      |
| Hettysburg         | Potomac        |              |   |   |     | .24    | T.   |      | .01  | .06  | .01  |     |    |     | .70  |      |     | .45  |     |     |    |    |    |    |    |    |    |    |     | .25 | .44  | 2.16 |       |      |
| Irardville†        | Lower Susq.    |              |   |   |     | .13    | .05  | .32  | .38  | .10  | .05  |     |    |     | .83  | .69  |     | .96  |     |     |    |    |    |    |    |    |    |    |     | T.  | .16  | .52  | 4.21  |      |
| Jordon             | Lower Susq.    |              |   |   |     | .12    | .03  | .02  | .65  |      | .15  |     |    |     | 1.56 |      |     | .75  |     |     |    |    |    |    |    |    |    |    |     |     | .20  |      | 3.48  |      |
| Mouldsboro\|\|\| | Lehigh         |              |   |   |     | .08    | .22  |      | 1.32 | .10  |      | .54 |    |     | .02  | 1.20 | .45 |      | .71 | .02 |    |    |    |    |    |    |    |    |     |     | .25  |      | 4.91  |      |
| Waterford          | Schuylkill     |              |   |   |     | .18    | .49  |      | .38  |      | .67  |     |    |     | .96  | .78  |     | .26  |     |     |    |    |    |    |    |    |    |    |     |     | .97  |      | 4.69  |      |
| Lamburg            | Schuylkill     |              |   |   |     |        | .86  |      | 2.15 | 1.40 |      |     |    |     | .82  | .38  | .90 | .43  | .09 |     |    |    |    |    |    |    |    |    |     |     | .09  |      | 7.12  |      |
| Lanover            | Lower Susq.    |              |   |   |     | .29    |      |      | .01  | .69  | .60  |     |    |     | .82  |      |     | .56  |     |     |    |    |    |    |    |    |    |    |     |     | .88  | .68  | 4.53  |      |
| Larrisburg***      | do.            |              |   |   |     | .09    | T.   | T.   | 1.41 | .43  |      |     |    |     | .68  | .92  |     | T.   | .87 |     |    |    |    |    |    |    |    |    |     |     | .34  | .34  | 5.10  |      |
| Lawley\|\|\| | Upper Del.     |              |   |   |     | .09    |      | .46  |      |      | .05  |     |    |     | 1.55 | .25  |     | .40  | T.  |     |    |    |    |    |    |    |    |    |     | T.  | .02  |      | 2.80  |      |
| Millisterville     | Upper Del.     |              |   |   |     | .01    | .16  | T.   | 5.08 | T.   | T.   | .18 |    |     | 2.20 | .25  |     | .46  | .07 |     |    |    |    |    |    |    |    |    |     |     |      | .18  |       | 8.59 |
| Moltwood\|\|\| | Lower Susq.    |              |   |   |     |        | .24  |      | .07  | 1.40 | .04  | .20 |    |     | .33  | .40  |     | .52  | .05 |     |    |    |    |    |    |    |    |    |     |     | .60  |      | 3.85  |      |
| Muntingdon         | Juniata        |              |   |   |     | .17    | .05  | .40  | .53  | .01  |      |     |    |     | .35  | .04  |     | .04  | .65 |     |    |    |    |    |    |    |    |    |     |     | T.   | .13  | .01   | 2.38 |
| Pyndman            | Potomac        |              |   |   |     |        | .33  | .38  | .45  | .04  |      |     |    |     | .02  | .33  |     | .07  | .30 |     |    |    |    |    |    |    |    |    |     | .01 | .01  | .14  | 2.08  |      |
| Pyrtown            | W. B. Susq.    |              |   |   |     |        | .05  | T.   | .04  | .40  |      |     |    |     | .96  | .07  |     | .40  |     |     |    |    |    |    |    |    |    |    |     |     | .57  | .06  | 2.55  |      |
| Rakeville\|\|\| | Upper Del.     |              |   |   |     | .18    | T.   | 1.33 | .02  | T.   |      | .13 |    |     | 1.70 | .19  |     | .55  | T.  |     |    |    |    |    |    |    |    |    |     |     | T.   |      | 4.10  |      |
| Rancaster          | Lower Susq.    |              |   |   |     | .14    |      |      | .64  | .32  | .02  |     |    |     | .64  |      |     | .38  |     |     |    |    |    |    |    |    |    |    |     |     | .77  | .41  | 3.32  |      |
| Ransford\|\|\| | Lehigh         |              |   |   |     |        | .60  |      | .65  |      | .21  |     |    |     | 1.14 |      | .36 | .56  | .06 |     |    |    |    |    |    |    |    |    |     | *   | .72  |      | 4.30  |      |
| Lawrenceville      | N. Br. Susq.   |              |   |   |     |        | .10  | .68  | .30  | 1.80 | .10  |     |    |     | .15  | .10  |     | .25  | .10 |     |    |    |    |    |    |    |    |    |     | .05 | .20  |      | 3.83  |      |
| Shanon             | Lower Susq.    |              |   |   |     |        | T.   | .17  |      | 1.33 | 1.60 | .07 | T. |     | 1.27 | .18  |     | .54  | .66 |     |    |    |    |    |    |    |    |    |     |     | .30  | .11  | 6.23  |      |
| Shawburg           | W. Br. Susq.   |              |   |   |     |        | .08  |      | T.   | .81  | .03  | T.  |    |     | 2.00 |      |     | .50  |     |     |    |    |    |    |    |    |    |    |     |     | T.   | .54  | .09   | 4.05 |
| Soyd               | do.            |              |   |   |     |        |      |      | .62  |      |      |     |    |     | .36  |      |     | .52  |     |     |    |    |    |    |    |    |    |    |     |     | .45  |      | .08   | 2.03 |
| Jack Haven         | do.            |              |   |   |     | .02    |      | .03  | .33  | .13  | .25  |     |    |     | .69  | .01  | .02 | .62  |     |     |    |    |    |    |    |    |    |    |     |     | .44  | .07  | 2.61  |      |
| Stkens             | Susquehanna    |              |   |   |     | .34    | .04  | .01  | 2.67 | .21  | T.   |     |    |     | 1.31 | .07  |     | .84  |     |     |    |    |    |    |    |    |    |    |     |     | .78  | .02  | 6.29  |      |
| Sauch Chunk        | Lehigh         |              |   |   |     | .92    | .09  |      | .62  | .44  | .09  |     |    |     | .09  | 1.78 |     | .73  |     |     |    |    |    |    |    |    |    |    |     |     | .57  |      | 5.33  |      |
| Shillintown        | Juniata        |              |   |   |     |        |      | .20  | 1.50 | .19  |      |     |    |     | .05  | 1.89 |     | .45  |     |     |    |    |    |    |    |    |    |    |     |     | .12  | .05  | 4.45  |      |
| Montrose           | N. Br. Susq.   |              |   |   |     | .22    |      | .32  |      |      |      |     |    |     | 1.13 |      | .70 |      |     |     |    |    |    |    |    |    |    |    |     |     | .03  |      | 2.40  |      |
| Morris Run         | N. Br. Susq.   |              |   |   |     |        | .22  | .36  | .22  | .03  |      |     |    |     | .52  |      |     | .64  |     |     |    |    |    |    |    |    |    |    |     | .03 | .05  | .24  | 2.31  |      |
| Mount Pocono       | Upper Del.     |              |   |   |     | .03    | .37  | .30  | .15  | 3.30 | .90  |     |    |     | 1.60 | .10  |     | .60  |     |     |    |    |    |    |    |    |    |    |     |     | .03  | .05  | 7.43  |      |
| Muncy Valley       | W. Br. Susq.   |              |   |   |     | .02    |      | .10  | .09  | .27  |      |     |    |     | .05  | 2.19 |     | .69  |     |     |    |    |    |    |    |    |    |    |     |     | .09  | .07  | 3.57  |      |
| Murberth           | Lower Del.     |              |   |   |     | .26    | .72  |      | 2.10 | .53  | .09  |     |    |     | T.   | .79  | .08 | .23  |     |     |    |    |    |    |    |    |    |    |     |     | .08  | .64  | 5.47  |      |
| Mushaminy\|\|\| | Lower Del.     |              |   |   |     |        | .98  |      | 3.12 | .87  |      | .09 |    |     | .58  | .16  |     | .04  | .23 |     |    |    |    |    |    |    |    |    |     |     | .14  |      | 6.21  |      |
| Sw Park            | Lower Susq.    |              |   |   |     | .63    |      | .12  | 1.03 | .40  | .35  |     |    |     | .26  | .61  |     | .67  |     |     |    |    |    |    |    |    |    |    |     |     | .30  | .97  | 5.34  |      |
| Mlerton†           | Lehigh         |              |   |   |     | .35    | .05  | .32  | .42  | T.   | T.   |     |    |     | .03  | 1.22 |     | 1.34 |     |     |    |    |    |    |    |    |    |    |     |     | .05  | .02  | 3.80  |      |
| Mupack\|\|\| | Upper Del.     |              |   |   |     | .05    | .30  |      | 2.10 | .02  |      | .69 |    |     | 1.38 |      | .31 | .48  |     |     |    |    |    |    |    |    |    |    |     |     |      |      | 5.33  |      |
| Philadelphia***    | Lower Del.     |              |   |   |     | .82    | .23  | .25  | 2.94 | .07  | .12  |     |    |     | T.   | 1.01 |     | .24  |     |     |    |    |    |    |    |    |    |    |     |     | T.   | T.   | .83   | 6.51 |
| Philadelphia-Gtn   | do.            |              |   |   |     | * 1.23 |      |      | 2.14 | .71  | .11  |     |    |     | 1.24 | .38  |     | .35  | T.  |     |    |    |    |    |    |    |    |    |     |     | .01  | .61  | 6.78  |      |
| Phila. Navy Yard\|\|\| | do.            |              |   |   |     | .02    | .59  | T.   | 2.12 | 1.35 |      | .03 |    |     | .49  | .35  |     | .10  | .35 |     |    |    |    |    |    |    |    |    |     |     | T.   |      | 5.40  |      |
| Phila. Pnt Breeze† | Lower Del.     |              |   |   |     | .05    | .92  |      | 3.47 |      | .12  |     |    |     | .58  | .42  |     | .15  | .06 |     |    |    |    |    |    |    |    |    |     |     | T.   | .59  | 6.38  |      |
| Phoenixville       | Schuylkill     |              |   |   |     |        | 1.05 |      | .87  | .18  | T.   | .33 |    |     | T.   | .80  | .37 |      | .16 | T.  |    |    |    |    |    |    |    |    |     |     |      | .92  |       | 4.68 |
| Re Grove\|\|\| | Lower Susq.    |              |   |   |     | .10    | .03  | .60  | 1.05 | .04  |      |     |    |     | 1.00 | .86  |     | .50  |     |     |    |    |    |    |    |    |    |    |     |     | .03  | .45  | .10   | 4.76 |
| Reasant Mount.     | Upper Del.     |              |   |   |     |        | .14  | .20  |      |      |      |     |    |     | .85  | .19  |     | .71  |     |     |    |    |    |    |    |    |    |    |     |     | T.   |      | 2.09  |      |
| Reattstown         | Schuylkill     |              |   |   |     | .05    | .22  |      | .29  | .49  | .15  |     |    |     | .30  | .65  |     | .22  |     |     |    |    |    |    |    |    |    |    |     |     |      | .28  | .70   | 3.35 |
| Reatsville         | do.            |              |   |   |     | .56    | .04  | .02  | 2.78 | .47  | .12  |     |    |     | 2.31 |      |     | .55  |     |     |    |    |    |    |    |    |    |    |     |     |      |      |       |      |

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| Stations           | Drainage Basin    | Day of month |   |   |   |     |      |      |      |     |     |    |     |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     |     |      |      | Total |      |      |
|--------------------|-------------------|--------------|---|---|---|-----|------|------|------|-----|-----|----|-----|------|-----|-----|------|------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------|------|-------|------|------|
|                    |                   | 1            | 2 | 3 | 4 | 5   | 6    | 7    | 8    | 9   | 10  | 11 | 12  | 13   | 14  | 15  | 16   | 17   | 18  | 19 | 20 | 21 | 22 | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30   | 31   |       |      |      |
| Ohio Drainage.     |                   |              |   |   |   |     |      |      |      |     |     |    |     |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     |     |      |      |       |      |      |
| Beaver Dam\|\|\| | Ohio.....         |              |   |   |   |     | .01  | .70  | .01  | .01 | .02 | T. |     | .72  | .55 | .10 |      | .48  |     |    |    |    |    |    |     |     |     |     |     |     | .03  | .30  | 2.93  |      |      |
| Beaver Falls\|\|\| | Beaver.....       |              |   |   |   | .08 | 1.18 | .01  | .28  | .04 | .03 |    |     | .45  | .47 | .09 |      | .58  |     |    |    |    |    |    |     |     | T.  | T.  | T.  |     | .25  |      | 3.46  |      |      |
| Bradford.....      | Allegheny.....    |              |   |   |   | .24 | .30  | .75  | 1.12 |     |     |    |     | .72  | .10 |     |      | 1.12 | .06 |    |    |    |    |    |     |     |     |     | .05 |     | .06  | .05  | 4.57  |      |      |
| Brookville.....    | do.....           |              |   |   |   |     | .25  | .15  |      |     | .15 |    | .30 | .10  | .45 |     | .55  | .10  |     |    |    |    |    |    |     |     |     |     |     |     | .50  |      | 2.55  |      |      |
| Butler.....        | Ohio.....         |              |   |   |   | .25 | 1.80 |      |      | .10 | .35 |    |     | 1.05 | .53 |     | .75  |      |     |    |    |    |    |    |     |     |     |     | .15 |     | 1.00 |      | 5.95  |      |      |
| Claysville.....    | do.....           |              |   |   |   | .49 | T.   | .19  | .15  | T.  |     |    |     | .75  | .19 |     | .02  | .29  | .03 |    |    |    |    |    |     |     |     | .02 | .01 |     | .28  | .03  | 2.45  |      |      |
| Cloeff.....        | Allegheny.....    |              |   |   |   | .28 | 1.05 | T.   | T.   |     |     |    | .15 | .32  | .26 |     | .28  | .22  |     |    |    |    |    |    |     |     |     |     |     |     | .46  | .08  | 3.10  |      |      |
| Clymer\|\|\| | Conemaugh.....    |              |   |   |   | .26 | .41  | .06  |      | .07 |     |    |     | .48  | .15 |     |      | .51  |     |    |    |    |    |    |     |     |     |     | *   |     | .21  | .05  | 2.20  |      |      |
| Confluence\|\|\| | Youghiogheny..... |              |   |   |   |     | .05  | 3.90 | .10  | .09 |     |    |     |      |     | .14 |      | .89  |     |    |    |    |    |    |     |     |     |     |     |     |      | .12  |       | 5.29 |      |
| Corapolis\|\|\| | Ohio.....         |              |   |   |   | .03 | .01  | .03  | T.   | .11 | T.  |    |     | .80  | .20 | .13 |      | .30  |     |    |    |    |    |    |     |     | T.  | .03 | .04 | .02 |      | .44  |       | 2.11 |      |
| Corry.....         | Allegheny.....    |              |   |   |   | .19 |      | .37  | .84  | .02 |     |    |     | .56  | .59 |     | .82  |      |     |    |    |    |    |    |     |     |     | .07 | .03 |     | .19  | .03  | 3.71  |      |      |
| Coudersport.....   | do.....           |              |   |   |   |     | .68  | 1.36 |      | .03 |     |    | .19 | .07  | .16 |     | .70  |      |     |    |    |    |    |    |     |     |     | .06 | .10 | .36 | .07  |      | 3.78  |      |      |
| Creekside.....     | Allegheny.....    |              |   |   |   |     | .73  | .07  |      | .09 |     |    |     | .23  | .16 |     |      | .57  |     |    |    |    |    |    |     |     |     |     | .04 | T.  | .24  | .03  | 2.16  |      |      |
| Derry.....         | Conemaugh.....    |              |   |   |   | .11 |      | .44  | .20  |     |     |    |     | .15  | .20 |     | T.   | .73  |     |    |    |    |    |    |     |     |     |     |     | .21 |      |      | 2.04  |      |      |
| Donora\|\|\| | Monongahela.....  |              |   |   |   |     |      | *    | .55  | .35 |     |    |     | .23  |     | .08 | .15  | .46  |     |    |    |    |    |    |     |     | T.  |     |     |     | .19  |      | 2.01  |      |      |
| Ebensburg.....     | Conemaugh.....    |              |   |   |   | .06 |      | .21  | T.   | .08 |     |    |     | .85  | .08 |     |      | .90  |     |    |    |    |    |    |     |     |     |     |     |     | .31  | T.   |       | 2.49 |      |
| Elk Lick.....      | Youghiogheny..... |              |   |   |   |     | .63  | .50  | .48  |     |     |    |     | .10  | .35 |     | .10  | .04  |     |    |    |    |    |    |     |     |     |     |     |     |      |      | 2.20  |      |      |
| Falls Creek.....   | Allegheny.....    |              |   |   |   | .10 |      | .52  | .05  | .07 |     |    |     | .48  | .28 |     |      | .50  |     |    |    |    |    |    |     |     |     |     |     |     | .47  |      | 2.47  |      |      |
| Franklin\|\|\| | Allegheny.....    |              |   |   |   |     | .42  | .09  | .21  | .14 |     |    |     | .22  | .89 | .04 |      | .83  | .02 |    |    |    |    |    |     |     |     |     |     | .07 | .15  | .10  | 3.18  |      |      |
| Freeport\|\|\| | do.....           |              |   |   |   | T.  | .42  | .62  | .01  | .36 | .03 |    |     | .55  | .06 | .31 |      | .33  | .01 |    |    |    |    |    |     |     |     |     | .02 | .06 | .01  | .10  | 2.89  |      |      |
| Greensboro.....    | Monongahela.....  |              |   |   |   |     | .06  | 2.36 | .14  | .11 |     |    |     | .04  | .01 | .03 |      | 2.20 | .05 |    |    |    |    |    |     |     |     | .14 | .01 |     |      | .44  |       | 5.49 |      |
| Greensburg.....    | Youghiogheny..... |              |   |   |   |     |      | .29  | .40  | T.  |     |    |     | .20  | .12 | .04 | T.   | .60  | .03 |    |    |    |    |    |     |     |     | T.  | T.  | .12 | .23  | .03  | 2.06  |      |      |
| Greenville.....    | Beaver.....       |              |   |   |   | .41 | .03  | T.   |      |     |     |    |     | .85  | .02 |     |      | .54  | T.  |    |    |    |    |    |     |     |     | .02 | .08 |     |      | T.   | 1.95  |      |      |
| Grove City.....    | Beaver.....       |              |   |   |   | .35 |      | .28  | .23  | T.  |     |    |     | .70  | .08 | .45 |      | .91  | T.  |    |    |    |    |    |     |     |     |     | T.  |     | .64  | T.   | 3.64  |      |      |
| Herrs Isl. Dam\|\|\| | Ohio.....         |              |   |   |   |     | .01  | .07  | .02  | T.  |     |    |     | .48  | .10 | .20 |      | .20  | .03 |    |    |    |    |    |     |     |     |     | T.  | T.  |      | .09  |       | 1.20 |      |
| Ingram.....        | Ohio.....         |              |   |   |   | T.  | T.   | .08  | .02  |     |     |    |     | .58  | .32 |     | .02  | .32  |     |    |    |    |    |    |     |     |     | T.  | T.  |     | .09  | T.   | 1.43  |      |      |
| Irwin.....         | Youghiogheny..... |              |   |   |   |     | T.   | .30  | .22  | .12 |     |    |     | .20  | .21 |     |      | .61  |     |    |    |    |    |    |     |     |     |     | T.  | T.  | .20  | .06  |       | 1.92 |      |
| Johnstown.....     | Conemaugh.....    |              |   |   |   | .19 | .25  | .01  | .29  | .04 |     |    |     | .43  | .05 |     | .03  | .80  |     |    |    |    |    |    |     |     |     |     |     | .01 |      | .45  | .28   | 2.83 |      |
| Kregar\|\|\| | Youghiogheny..... |              |   |   |   | .01 | .68  | .07  | .21  |     |     |    | T.  | .14  | .42 |     | 1.03 | .19  |     |    |    |    |    |    |     |     |     |     |     |     | .08  | .15  | .09   | 3.07 |      |
| Lock No. 4\|\|\| | Monongahela.....  |              |   |   |   |     |      | .52  | .06  | .13 |     |    |     | .12  | .02 | .44 |      | .49  | .02 |    |    |    |    |    |     |     |     |     |     |     |      | .44  |       | 2.24 |      |
| Lycippus.....      | Conemaugh.....    |              |   |   |   | .10 |      | 1.28 | .21  |     |     |    |     | .04  | .31 | .04 |      | 1.05 | .09 |    |    |    |    |    |     |     |     |     |     |     | .10  | .20  | T.    | 3.42 |      |
| Meadville.....     | Allegheny.....    |              |   |   |   | .32 | .25  | T.   | .58  |     |     |    |     | .72  | .05 |     | .65  | .18  |     |    |    |    |    |    |     |     |     | .02 | .11 |     | .02  |      | 2.90  |      |      |
| Mount Lebanon..... | Ohio.....         |              |   |   |   |     | .16  | .03  | T.   |     |     |    |     | .62  | .24 |     | .25  |      |     |    |    |    |    |    |     |     |     |     |     |     | .16  | .06  | 1.55  |      |      |
| New Castle\|\|\| | Beaver.....       |              |   |   |   | .03 | .16  | .09  | .33  | .01 |     |    |     | .42  | .30 | .04 | .02  | .74  | .02 |    |    |    |    |    | .01 |     |     |     |     | .02 | .47  | .30  | 2.96  |      |      |
| Newell.....        | Monongahela.....  |              |   |   |   |     |      | .75  | .38  | .04 |     |    |     | .18  | .18 |     |      | .56  |     |    |    |    |    |    |     |     |     |     |     |     | .22  |      | 2.31  |      |      |
| Parkers Landing\|\|\| | Allegheny.....    |              |   |   |   | T.  | .82  |      | .79  | .05 |     |    |     | .52  | .52 | .18 |      | 1.35 | T.  |    |    |    |    |    |     |     |     |     |     | .05 |      | .30  | 4.58  |      |      |
| Pennline\|\|\|†† | Beaver.....       |              |   |   |   |     | .21  | .07  | .02  | .86 |     |    |     | .50  |     |     |      | .83  | .13 |    |    |    |    |    |     |     |     |     | .50 | .18 |      | .08  | .10   | 3.48 |      |
| Pittsburgh***      | Ohio.....         |              |   |   |   | T.  | .07  | .02  | T.   | T.  |     |    | .32 | .19  | .22 |     | .03  | .12  |     |    |    |    |    |    |     |     |     | T.  | .01 |     | .07  | T.   | 1.05  |      |      |
| Ridgway.....       | Allegheny.....    |              |   |   |   | .29 | T.   | .32  | 1.09 | T.  |     |    |     | .28  | .36 | T.  |      | 1.20 |     |    |    |    |    |    |     |     |     |     | T.  | T.  | .02  |      | .10   | 3.66 |      |
| Saltsburg\|\|\| | Conemaugh.....    |              |   |   |   |     | .15  | .16  | .01  | .12 |     |    |     | .17  | .02 | .09 |      | .55  |     |    |    |    |    |    |     |     |     |     |     |     | T.   |      | .05   | 1.32 |      |
| Sharon\|\|\| | Beaver.....       |              |   |   |   |     | .06  |      | .10  |     |     |    |     | .64  | .44 | .02 |      | .41  |     |    |    |    |    |    |     |     |     |     |     |     |      | .08  |       | 1.75 |      |
| Somerset.....      | Youghiogheny..... |              |   |   |   |     |      |      |      |     |     |    |     |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     |     |      |      |       |      |      |
| Springdale\|\|\| | Allegheny.....    |              |   |   |   | .07 | .05  | .13  | .01  | .08 |     |    |     | .54  | .08 | .33 | T.   | .35  | T.  |    |    |    |    |    |     |     |     |     |     |     | .01  | .04  |       | .12  | 1.81 |
| Uniontown.....     | Monongahela.....  |              |   |   |   | .03 | .04  | .59  | .54  | .05 |     |    |     | .06  | .21 | .08 | T.   | 1.94 | .07 |    |    |    |    |    |     |     |     |     |     | T.  |      | .23  | .26   | T.   | 3.74 |
| Unity Reservoir††  | Youghiogheny..... |              |   |   |   | .05 |      | .30  | .50  | .03 |     |    |     | .33  | .14 | .03 | T.   | .62  |     |    |    |    |    |    |     |     |     |     | T.  |     |      | .04  | .06   | .02  | 2.49 |
| Vandergrift†       | Conemaugh.....    |              |   |   |   | .48 |      | .16  | .01  |     |     |    |     | .18  | .38 |     |      | .02  |     |    |    |    |    |    |     |     |     |     |     |     |      |      |       | 1.35 |      |
| Warren.....        | Allegheny.....    |              |   |   |   | .80 | .55  | .15  | .20  | .16 |     |    |     | .92  | .08 |     |      | .96  | .02 |    |    |    |    |    |     |     |     |     |     | .01 | .10  | .30  | .15   | 4.50 |      |
| Westford\|\|\| | Beaver.....       |              |   |   |   | .62 | .05  | .10  | .15  |     |     |    |     | .83  | .48 | .16 |      | 1.30 | .10 |    |    |    |    |    |     | .14 | .15 |     |     |     |      |      |       | 4.08 |      |
| West Newton\|\|\| | Youghiogheny..... |              |   |   |   |     |      | .39  | .14  | .37 |     |    |     | .13  | .04 | .35 |      | .53  | .02 |    |    |    |    |    |     |     |     |     |     |     |      | .20  |       | 2.17 |      |
| Zelienople\|\|\| | Ohio.....         |              |   |   |   | .32 | .91  |      | .82  |     |     |    |     |      |     |     |      | T.   |     |    |    |    |    |    |     |     |     |     |     |     | .89  | 1.74 |       | 8.72 |      |
| Lake Drainage.     |                   |              |   |   |   |     |      |      |      |     |     |    |     |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     |     |      |      |       |      |      |
| Erie***            | Lake Erie.....    |              |   |   |   | .11 | .01  | T.   | .10  | .10 |     |    | .01 | .40  | T.  |     | .05  | .76  |     |    |    |    |    |    |     |     |     |     | T.  | .28 | .01  |      | .05   | .01  | 1.89 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

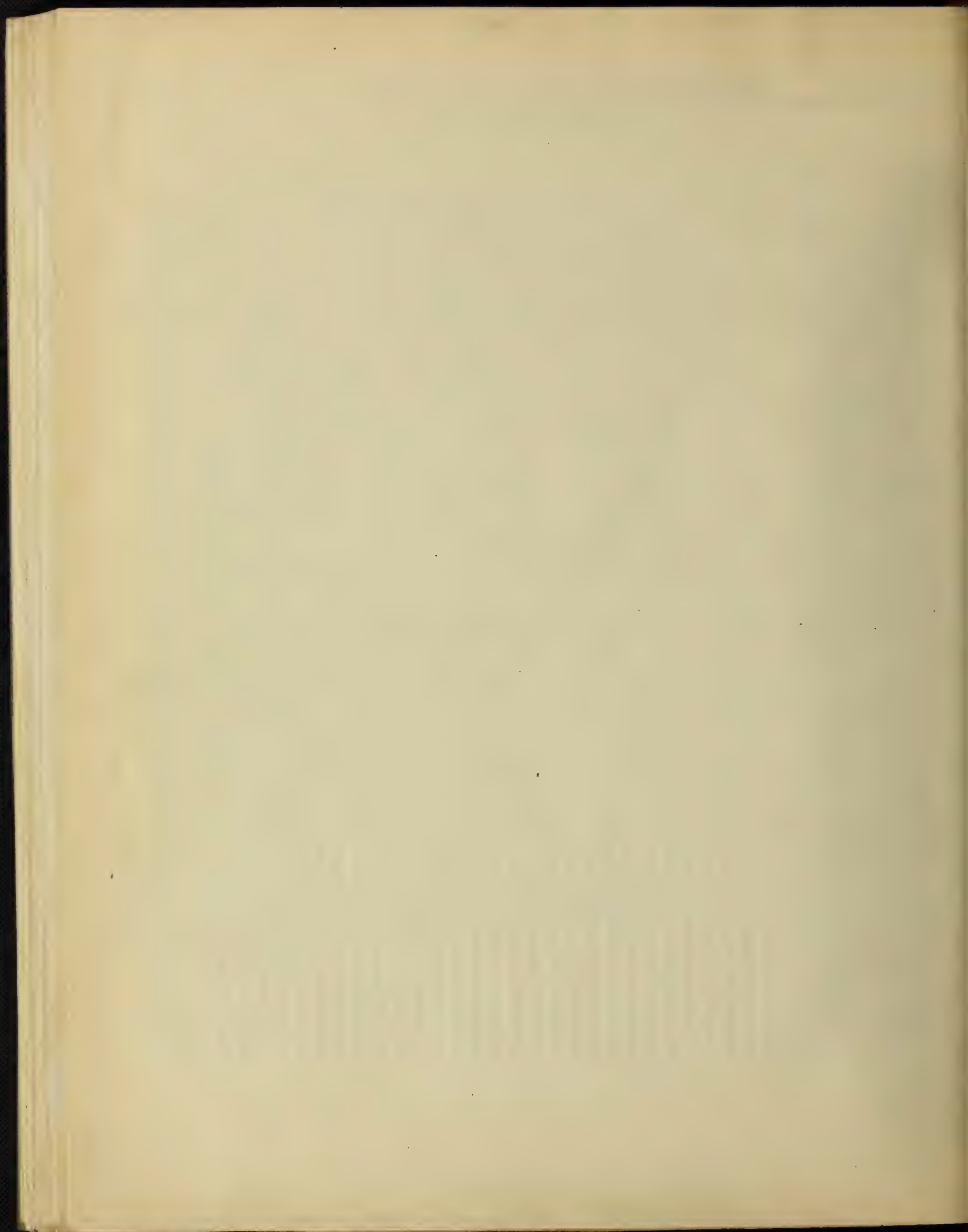
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Blossville  
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.



Daily Temperatures for September, 1929

| Stations          | 1       | 2  | 3  | 4   | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|-------------------|---------|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....    | Maximum | 93 | 95 | 96  | 94  | 82 | 78 | 87 | 85 | 89 | 87 | 77 | 80 | 85 | 74 | 78 | 75 | 67 | 64 | 62 | 64 | 65 | 73 | 78 | 85 | 82 | 79 | 75 | 86 | 62 | 78.9 |      |      |
|                   | Minimum | 54 | 63 | 61  | 62  | 63 | 64 | 65 | 67 | 69 | 71 | 59 | 45 | 49 | 64 | 55 | 49 | 50 | 53 | 40 | 40 | 41 | 42 | 42 | 48 | 47 | 48 | 53 | 58 | 59 | 54.7 |      |      |
| Altoona.....      | Maximum | 89 | 92 | 94  | 90  | 92 | 90 | 89 | 87 | 83 | 83 | 75 | 74 | 76 | 76 | 72 | 78 | 71 | 65 | 59 | 58 | 60 | 58 | 67 | 76 | 79 | 77 | 77 | 86 | 84 | 77.8 |      |      |
|                   | Minimum | 63 | 62 | 60  | 60  | 61 | 61 | 66 | 66 | 67 | 67 | 56 | 42 | 59 | 60 | 47 | 42 | 59 | 44 | 36 | 45 | 40 | 45 | 53 | 51 | 57 | 62 | 67 | 62 | 68 | 64   | 56.4 |      |
| Beaver Dam.....   | Maximum | 88 | 90 | 91  | 89  | 89 | 87 | 85 | 84 | 84 | 83 | 78 | 81 | 80 | 72 | 71 | 80 | 75 | 73 | 56 | 62 | 65 | 69 | 76 | 82 | 85 | 75 | 76 | 85 | 85 | 73   | 79.0 |      |
|                   | Minimum | 56 | 56 | 54  | 56  | 60 | 62 | 67 | 67 | 65 | 73 | 49 | 46 | 66 | 50 | 44 | 46 | 55 | 42 | 35 | 45 | 41 | 42 | 45 | 48 | 56 | 64 | 62 | 60 | 60 | 55   | 54.3 |      |
| Bellefonte.....   | Maximum | 91 | 94 | 95  | 91  | 90 | 88 | 89 | 84 | 83 | 83 | 72 | 71 | 75 | 77 | 72 | 79 | 74 | 59 | 57 | 59 | 63 | 64 | 71 | 77 | 82 | 81 | 78 | 84 | 79 | 64   | 77.5 |      |
|                   | Minimum | 62 | 55 | 50  | 53  | 65 | 65 | 65 | 66 | 68 | 60 | 44 | 41 | 62 | 56 | 49 | 42 | 51 | 35 | 29 | 31 | 32 | 35 | 39 | 43 | 45 | 54 | 61 | 61 | 57 | 49   | 50.8 |      |
| Brookville.....   | Maximum | 89 | 91 | 90  | 88  | 85 | 85 | 88 | 88 | 85 | 82 | 71 | 76 | 71 | 71 | 70 | 82 | 72 | 59 | 57 | 63 | 67 | 69 | 77 | 73 | 80 | 80 | 82 | 87 | 83 | 69   | 81.6 |      |
|                   | Minimum | 46 | 46 | 46  | 46  | 54 | 51 | 64 | 63 | 65 | 52 | 35 | 39 | 56 | 41 | 38 | 35 | 43 | 26 | 24 | 23 | 27 | 28 | 31 | 38 | 43 | 56 | 45 | 43 | 56 | 45   | 43.0 |      |
| Butler.....       | Maximum | 91 | 87 | 90  | 93  | 90 | 90 | 87 | 88 | 89 | 84 | 82 | 79 | 80 | 79 | 81 | 79 | 72 | 70 | 62 | 65 | 67 | 75 | 83 | 86 | 87 | 80 | 82 | 87 | 83 | 69   | 81.6 |      |
|                   | Minimum | 54 | 52 | 52  | 51  | 59 | 58 | 66 | 70 | 72 | 70 | 49 | 42 | 58 | 52 | 39 | 39 | 59 | 41 | 29 | 41 | 34 | 36 | 41 | 43 | 53 | 63 | 59 | 55 | 54 | 53   | 51.5 |      |
| Carlisle.....     | Maximum | 95 | 97 | 100 | 100 | 85 | 87 | 92 | 86 | 90 | 89 | 86 | 75 | 82 | 83 | 77 | 77 | 76 | 74 | 64 | 66 | 67 | 62 | 77 | 80 | 85 | 86 | 83 | 83 | 87 | 71   | 82.1 |      |
|                   | Minimum | 56 | 63 | 55  | 56  | 65 | 68 | 67 | 68 | 70 | 67 | 56 | 39 | 59 | 62 | 48 | 45 | 63 | 51 | 33 | 35 | 32 | 34 | 43 | 45 | 43 | 50 | 58 | 62 | 55 | 55   | 53.4 |      |
| Catawissa.....    | Maximum | 94 | 96 | 97  | 95  | 83 | 84 | 90 | 81 | 88 | 88 | 75 | 79 | 79 | 84 | 78 | 77 | 74 | 66 | 62 | 64 | 68 | 69 | 75 | 79 | 83 | 83 | 83 | 82 | 83 | 61   | 80.0 |      |
|                   | Minimum | 59 | 60 | 50  | 52  | 64 | 65 | 64 | 65 | 65 | 69 | 43 | 38 | 38 | 49 | 44 | 49 | 62 | 48 | 32 | 34 | 31 | 31 | 32 | 44 | 46 | 50 | 49 | 57 | 54 | 52   | 49.9 |      |
| Chambersburg..... | Maximum | 89 | 92 | 93  | 87  | 80 | 86 | 91 | 84 | 81 | 87 | 81 | 75 | 80 | 81 | 73 | 78 | 75 | 71 | 61 | 61 | 62 | 60 | 73 | 78 | 82 | 81 | 80 | 79 | 89 | 71   | 79.1 |      |
|                   | Minimum | 52 | 56 | 53  | 55  | 63 | 68 | 68 | 68 | 68 | 67 | 55 | 43 | 56 | 62 | 50 | 46 | 65 | 50 | 34 | 38 | 38 | 41 | 50 | 46 | 46 | 54 | 60 | 57 | 56 | 57   | 54.0 |      |
| Claysville.....   | Maximum | 91 | 92 | 94  | 93  | 94 | 93 | 94 | 84 | 84 | 87 | 87 | 76 | 86 | 77 | 74 | 76 | 78 | 77 | 72 | 61 | 65 | 67 | 70 | 81 | 86 | 86 | 81 | 82 | 91 | 82   | 70   | 81.5 |
|                   | Minimum | 51 | 50 | 53  | 56  | 56 | 60 | 67 | 64 | 62 | 61 | 48 | 42 | 61 | 58 | 38 | 46 | 59 | 41 | 28 | 40 | 36 | 33 | 45 | 45 | 57 | 64 | 61 | 59 | 61 | 56   | 51.9 |      |
| Clearfield.....   | Maximum | 94 | 96 | 98  | 96  | 95 | 93 | 91 | 90 | 88 | 85 | 78 | 76 | 72 | 73 | 78 | 86 | 78 | 78 | 67 | 68 | 70 | 74 | 80 | 86 | 85 | 84 | 81 | 90 | 79 | 72   | 82.7 |      |
|                   | Minimum | 48 | 55 | 48  | 50  | 60 | 65 | 67 | 65 | 58 | 48 | 40 | 60 | 55 | 44 | 39 | 60 | 43 | 27 | 30 | 28 | 30 | 42 | 45 | 47 | 55 | 61 | 59 | 58 | 52 | 52   | 50.0 |      |
| Coatesville.....  | Maximum | 92 | 93 | 93  | 92  | 78 | 79 | 89 | 83 | 88 | 88 | 76 | 77 | 84 | 83 | 74 | 80 | 77 | 74 | 62 | 64 | 73 | 61 | 73 | 80 | 82 | 83 | 78 | 77 | 84 | 74   | 79.7 |      |
|                   | Minimum | 58 | 64 | 60  | 59  | 68 | 66 | 64 | 70 | 69 | 71 | 54 | 44 | 60 | 62 | 52 | 45 | 63 | 53 | 36 | 36 | 35 | 39 | 50 | 45 | 42 | 50 | 54 | 55 | 59 | 56   | 54.6 |      |
| Corry.....        | Maximum | 89 | 90 | 92  | 90  | 83 | 83 | 82 | 82 | 77 | 70 | 75 | 67 | 75 | 70 | 80 | 71 | 62 | 58 | 62 | 65 | 72 | 78 | 82 | 84 | 73 | 76 | 85 | 74 | 57 | 76.2 |      |      |
|                   | Minimum | 56 | 53 | 53  | 52  | 55 | 64 | 65 | 63 | 66 | 60 | 48 | 42 | 56 | 54 | 40 | 44 | 54 | 38 | 29 | 26 | 31 | 32 | 40 | 43 | 45 | 58 | 61 | 60 | 55 | 48   | 49.7 |      |
| Emporium.....     | Maximum | 86 | 86 | 88  | 87  | 86 | 84 | 85 | 81 | 83 | 80 | 68 | 69 | 69 | 72 | 67 | 78 | 70 | 57 | 55 | 58 | 62 | 65 | 71 | 75 | 75 | 76 | 76 | 83 | 74 | 65   | 74.4 |      |
|                   | Minimum | 53 | 58 | 49  | 53  | 56 | 62 | 67 | 67 | 68 | 64 | 53 | 39 | 58 | 55 | 45 | 40 | 57 | 37 | 31 | 30 | 28 | 30 | 36 | 45 | 50 | 55 | 60 | 60 | 62 | 52   | 50.7 |      |
| Erie.....         | Maximum | 84 | 84 | 85  | 85  | 87 | 86 | 82 | 84 | 84 | 81 | 75 | 68 | 76 | 69 | 66 | 69 | 82 | 70 | 55 | 55 | 59 | 58 | 65 | 70 | 75 | 81 | 70 | 75 | 78 | 71   | 75.5 |      |
|                   | Minimum | 68 | 79 | 73  | 68  | 69 | 68 | 67 | 66 | 69 | 61 | 54 | 52 | 59 | 57 | 48 | 55 | 55 | 46 | 40 | 40 | 43 | 47 | 51 | 56 | 60 | 63 | 63 | 65 | 53 | 48   | 57.8 |      |
| Franklin.....     | Maximum | 94 | 94 | 93  | 94  | 92 | 87 | 87 | 85 | 84 | 83 | 78 | 72 | 68 | 73 | 82 | 74 | 68 | 73 | 82 | 75 | 60 | 62 | 70 | 71 | 73 | 77 | 84 | 84 | 71 | 75   | 79   | 79.4 |
|                   | Minimum | 43 | 54 | 51  | 53  | 55 | 59 | 66 | 67 | 66 | 63 | 44 | 42 | 53 | 44 | 43 | 44 | 48 | 43 | 35 | 32 | 31 | 37 | 43 | 47 | 52 | 60 | 61 | 60 | 62 | 49.3 |      |      |
| Freeland.....     | Maximum | 86 | 89 | 90  | 89  | 80 | 79 | 80 | 78 | 80 | 78 | 80 | 72 | 68 | 72 | 68 | 78 | 68 | 70 | 68 | 63 | 55 | 59 | 62 | 63 | 72 | 75 | 80 | 81 | 79 | 74   | 80   | 74.5 |
|                   | Minimum | 67 | 67 | 66  | 70  | 64 | 61 | 66 | 65 | 66 | 68 | 51 | 46 | 56 | 55 | 48 | 50 | 60 | 47 | 33 | 35 | 36 | 37 | 44 | 52 | 56 | 60 | 61 | 57 | 60 | 51   | 55.0 |      |
| Gettysburg.....   | Maximum | 92 | 95 | 98  | 91  | 83 | 83 | 91 | 85 | 90 | 89 | 83 | 77 | 82 | 84 | 74 | 76 | 74 | 73 | 62 | 66 | 65 | 62 | 73 | 79 | 82 | 85 | 80 | 78 | 89 | 69   | 80.3 |      |
|                   | Minimum | 57 | 61 | 60  | 59  | 68 | 67 | 71 | 70 | 69 | 70 | 55 | 46 | 58 | 63 | 51 | 47 | 67 | 54 | 37 | 39 | 40 | 44 | 53 | 46 | 47 | 54 | 60 | 63 | 59 | 57   | 56.4 |      |
| Greensburg.....   | Maximum | 81 | 89 | 91  | 89  | 92 | 91 | 91 | 87 | 84 | 81 | 71 | 80 | 74 | 70 | 73 | 82 | 74 | 68 | 59 | 64 | 65 | 68 | 77 | 85 | 85 | 83 | 82 | 90 | 84 | 70   | 79.3 |      |
|                   | Minimum | 60 | 61 | 55  | 59  | 63 | 61 | 68 | 65 | 66 | 70 | 53 | 47 | 61 | 58 | 44 | 49 | 60 | 46 | 31 | 40 | 37 | 43 | 49 | 49 | 57 | 65 | 65 | 50 | 55 | 56   | 54.8 |      |
| Grove City.....   | Maximum | 87 | 89 | 91  | 89  | 87 | 81 | 82 | 82 | 81 | 79 | 73 | 75 | 69 | 65 | 66 | 75 | 61 | 66 | 54 | 58 | 63 | 63 | 75 | 80 | 80 | 74 | 72 | 85 | 79 | 67   | 75.3 |      |
|                   | Minimum | 55 | 53 | 54  | 54  | 57 | 64 | 65 | 66 | 66 | 70 | 50 | 47 | 57 | 57 | 40 | 45 | 57 | 41 | 31 | 38 | 37 | 41 | 46 | 45 | 55 | 63 | 64 | 61 | 61 | 51   | 53.9 |      |
| Hamburg.....      | Maximum | 91 | 95 | 96  | 94  | 86 | 84 | 81 | 88 | 86 | 86 | 80 | 80 | 80 | 82 | 82 | 75 | 70 | 71 | 61 | 61 | 63 | 62 | 77 | 77 | 82 | 83 | 78 | 71 | 76 | 70   | 78.9 |      |
|                   | Minimum | 59 | 54 | 58  | 54  | 66 | 65 | 65 | 65 | 70 | 68 | 60 | 41 | 61 | 62 | 54 | 45 | 54 | 49 | 36 | 40 | 36 | 37 | 43 | 42 | 43 | 50 | 56 | 58 | 55 | 55   | 53.4 |      |
| Harrisburg.....   | Maximum | 92 | 94 | 96  | 86  | 78 | 81 | 88 | 81 | 86 | 87 | 70 | 73 | 79 | 73 | 74 | 69 | 64 | 59 | 57 | 61 | 62 | 71 | 77 | 79 | 81 | 76 | 77 | 83 | 68 | 73   | 77.1 |      |
|                   | Minimum | 64 | 66 | 64  | 63  | 67 | 67 | 70 | 69 | 69 | 70 | 53 | 47 | 62 | 60 | 56 | 53 | 60 | 48 | 42 | 44 | 41 | 44 | 51 | 52 | 52 | 56 | 64 | 64 | 63 | 52   | 57.8 |      |
| Hawley.....       | Maximum | 90 | 93 | 94  | 93  | 87 | 79 | 86 | 79 | 82 | 86 | 75 | 69 | 70 | 79 | 75 | 74 | 69 | 64 | 59 | 57 | 61 | 62 | 71 | 77 | 79 | 81 | 76 | 77 | 84 | 73   | 76.7 |      |
|                   | Minimum | 49 | 57 | 50  | 52  | 65 | 63 | 62 | 64 | 66 | 71 | 56 | 38 | 54 | 62 | 47 | 38 | 61 | 41 | 30 | 31 | 28 | 29 | 33 | 41 | 43 | 47 | 54 | 50 | 55 | 54   | 49.8 |      |
| Huntingdon.....   | Maximum | 93 | 96 | 97  | 91  | 91 | 91 | 89 | 87 | 86 | 85 | 74 | 75 | 79 | 80 | 73 | 81 | 75 | 69 | 61 | 61 | 64 | 65 | 72 | 80 | 82 | 83 | 81 | 86 | 82 | 71   | 80.0 |      |
|                   | Minimum | 55 | 54 | 49  | 52  | 60 | 61 | 66 | 67 | 69 | 66 | 57 | 39 | 62 | 59 | 47 | 41 | 61 | 48 | 30 | 34 | 33 | 33 | 43 | 47 | 47 | 57 | 61 | 60 | 57 | 56   | 52.2 |      |
| Johnstown.....    | Maximum | 91 | 93 | 94  | 90  | 92 | 93 | 91 | 91 | 88 | 86 | 75 | 79 | 78 | 75 | 80 | 80 | 75 | 65 | 63 | 68 | 70 | 77 | 84 | 86 | 83 | 83 | 84 | 78 | 66 | 59   | 81.6 |      |
|                   | Minimum | 53 | 56 | 53  | 57  | 62 | 63 | 63 | 67 | 68 | 66 | 55 | 45 | 60 | 57 | 47 | 43 | 55 | 47 | 33 | 40 | 36 | 36 | 54 | 51 | 51 | 57 | 61 | 57 | 62 | 55   | 53.7 |      |
| Lancaster.....    | Maximum | 95 | 98 | 97  | 95  | 85 | 83 | 90 | 87 | 90 | 88 | 83 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |







U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. OCTOBER, 1929. No. 10

## GENERAL SUMMARY.

Moderate temperature changes were frequent during the month with no unusual extremes. A large excess in rainfall was due to heavy general rains at the beginning of the month, and again on the 21st and 22d. There was much fair and fine weather during the remainder of the month, and outdoor work made good progress. Each period of heavy rains flooded many small streams and some of the larger ones. The first rains flooded streams in the western part of the State, including the Monongahela, bringing a flood stage to Pittsburgh and doing damage to the extent of about \$10,000. The second period of rains seemed to be the heaviest in the central part of the State, flooding the Juniata and its tributaries and doing considerable damage in Mifflin County. This period of rains was accompanied by severe local windstorms. At the Shamokin airport a damage of \$15,000 was reported. The path of destruction was narrow, but no funnel cloud was observed. Williamsport and Newberry suffered heavy damage to wire service of all kinds, and many large trees were uprooted. Lesser damage was reported from many places in the central and eastern portions of the State. The crop season practically ended with October, although corn husking was only about half done at the close of the month. Reports revealed the fact that the yields of each and every crop were below the average excepting potatoes. The better showing of that crop was due to early varieties which did not suffer much from the summer drought. Late varieties yielded below the average. The hay crop was nearly up to the normal due to heavy first cuttings. The yields of orchard fruits were far below the average, the apple crop being the lightest for many years.

## TEMPERATURE.

The mean temperature for the State, as determined from observations taken at 88 stations, was 50.6°, which is 1.8° lower than the normal for the month. The highest monthly mean was 56.2°, at Philadelphia-Point Breeze, and the lowest 44.6°, at Gouldsboro. The highest recorded during the month was 55°, at Beaver Dam on the 19th, while the lowest, 14°, occurred at Gouldsboro on the 11th. The greatest daily range of temperature was 52°, at Clearfield on the 19th.

## PRECIPITATION.

The average precipitation for the State, as shown by reports from 136 well-distributed stations, was 5.59 inches: an excess of 2.41 inches over the October normal. The greatest monthly total was 10.40 inches at Weikert, and the least was 1.65 inches at Erie. The greatest amount reported as falling in any 24 consecutive hours was 4.70 inches at Weikert on the 2d. Snowfall for the month averaged a "trace" as compared with an October normal of 0.1 inch. But one station reported a measurable fall, 0.2 inch falling at Morris Run on the 17th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 103.9                   | 343.1                    | 30                     | 71               | 70       | 73      | 10,908                   | 14.7                        | 55        | e.        |
| Harrisburg.....   | 190.2                   | 345.2                    | 55                     | 75               | 56       | 60      | 4,844                    | 6.5                         | 29        | se.       |
| Philadelphia..... | 210.6                   | 345.2                    | 61                     | 76               | 55       | 63      | 9,815                    | 13.2                        | 46        | s.        |
| Pittsburgh.....   | 159.1                   | 344.1                    | 46                     | 81               | 66       | 64      | 7,127                    | 9.6                         | 41        | s.        |
| Reading.....      | 195.7                   | 345.2                    | 57                     | 74               | 51       | 62      | 4,430                    | 5.8                         | 31        | se.       |
| Scranton.....     | 166.2                   | 344.1                    | 48                     | 78               | 56       | 60      | 4,877                    | 6.6                         | 27        | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR OCTOBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888..... | 46.3        | 74      | 19     | 4.02          | 9.18     | 2.04  | 9           | 6             | 16     | 16                     |
| 1889..... | 47.3        | 83      | 13     | 3.85          | 8.61     | 1.88  | 8           | 8             | 14     | 10                     |
| 1890..... | 50.9        | 81      | 21     | 5.87          | 8.41     | 4.03  | 6           | 9             | 17     | 15                     |
| 1891..... | 50.6        | 91      | 15     | 3.06          | 4.46     | 0.84  | 11          | 9             | 11     | 8                      |
| 1892..... | 50.8        | 93      | 16     | 0.72          | 2.93     | 0.00  | 13          | 11            | 7      | 8                      |
| 1893..... | 53.0        | 91      | 17     | 3.26          | 6.38     | 1.18  | 14          | 8             | 9      | 8                      |
| 1894..... | 53.6        | 88      | 24     | 4.26          | 7.66     | 0.65  | 12          | 8             | 11     | 9                      |
| 1895..... | 47.3        | 76      | 17     | 1.99          | 4.63     | 0.45  | 17          | 8             | 6      | 5                      |
| 1896..... | 48.9        | 86      | 18     | 3.19          | 5.70     | 0.94  | 11          | 8             | 12     | 5                      |
| 1897..... | 54.2        | 95      | 16     | 1.32          | 5.93     | T.    | 14          | 8             | 9      | 5                      |
| 1898..... | 53.8        | 92      | 20     | 5.20          | 8.62     | 2.36  | 11          | 7             | 13     | 12                     |
| 1899..... | 54.6        | 94      | 15     | 1.55          | 3.81     | 0.53  | 13          | 8             | 10     | 6                      |
| 1900..... | 58.6        | 95      | 19     | 2.74          | 5.10     | 0.80  | 11          | 9             | 11     | 8                      |
| 1901..... | 52.2        | 83      | 20     | 1.23          | 3.35     | 0.23  | 16          | 10            | 5      | 5                      |
| 1902..... | 53.1        | 89      | 19     | 4.64          | 8.12     | 1.65  | 12          | 9             | 10     | 9                      |
| 1903..... | 53.4        | 91      | 20     | 4.64          | 10.53    | 2.07  | 12          | 8             | 11     | 9                      |
| 1904..... | 50.6        | 91      | 12     | 2.87          | 7.11     | 1.26  | 15          | 8             | 8      | 7                      |
| 1905..... | 53.2        | 90      | 16     | 4.23          | 7.06     | 2.18  | 14          | 7             | 10     | 9                      |
| 1906..... | 52.0        | 87      | 14     | 4.46          | 8.39     | 1.97  | 7           | 7             | 17     | 14                     |
| 1907..... | 48.2        | 87      | 13     | 3.16          | 5.64     | 1.01  | 16          | 8             | 7      | 7                      |
| 1908..... | 54.6        | 93      | 19     | 1.95          | 5.48     | 0.08  | 16          | 7             | 8      | 8                      |
| 1909..... | 48.4        | 87      | 15     | 2.27          | 4.60     | 0.70  | 13          | 7             | 11     | 7                      |
| 1910..... | 55.6        | 91      | 14     | 1.91          | 5.23     | 0.62  | 16          | 8             | 7      | 7                      |
| 1911..... | 52.3        | 83      | 18     | 4.83          | 9.23     | 2.59  | 11          | 7             | 13     | 11                     |
| 1912..... | 54.2        | 90      | 23     | 2.74          | 5.27     | 0.90  | 15          | 7             | 9      | 6                      |
| 1913..... | 54.9        | 88      | 16     | 5.44          | 9.62     | 3.15  | 10          | 6             | 15     | 13                     |
| 1914..... | 56.4        | 91      | 11     | 2.35          | 4.37     | 0.89  | 11          | 9             | 11     | 8                      |
| 1915..... | 54.2        | 85      | 17     | 2.65          | 5.33     | 1.00  | 15          | 7             | 9      | 9                      |
| 1916..... | 52.1        | 92      | 16     | 2.25          | 4.45     | 0.76  | 18          | 7             | 6      | 6                      |
| 1917..... | 47.2        | 84      | 12     | 6.38          | 9.80     | 3.33  | 10          | 10            | 11     | 13                     |
| 1918..... | 55.5        | 85      | 19     | 3.17          | 2.20     | 0.24  | 15          | 8             | 8      | 10                     |
| 1919..... | 57.5        | 92      | 21     | 4.77          | 8.04     | 2.28  | 9           | 8             | 14     | 17                     |
| 1920..... | 57.6        | 88      | 22     | 1.67          | 4.67     | 0.50  | 19          | 7             | 5      | 5                      |
| 1921..... | 52.6        | 84      | 3      | 2.16          | 6.55     | 0.40  | 17          | 7             | 7      | 8                      |
| 1922..... | 54.8        | 94      | 12     | 2.51          | 5.60     | 0.65  | 18          | 6             | 7      | 7                      |
| 1923..... | 51.0        | 87      | 12     | 2.38          | 6.01     | 0.90  | 15          | 8             | 8      | 8                      |
| 1924..... | 52.9        | 87      | 14     | 0.28          | 2.30     | 0.00  | 21          | 7             | 3      | 2                      |
| 1925..... | 46.1        | 83      | 9      | 4.83          | 8.90     | 2.02  | 6           | 8             | 17     | 15                     |
| 1926..... | 51.9        | 90      | 16     | 4.51          | 7.98     | 2.56  | 10          | 9             | 12     | 14                     |
| 1927..... | 55.6        | 99      | 21     | 6.40          | 11.91    | 1.58  | 17          | 5             | 9      | 9                      |
| 1928..... | 55.1        | 91      | 15     | 1.78          | 5.24     | 0.43  | 14          | 8             | 9      | 8                      |
| 1929..... | 50.6        | 85      | 14     | 5.59          | 10.40    | 1.65  | 12          | 8             | 11     | 9                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |         | Highest stage |        | Lowest stage |       | Flood stage |       |
|-------------------|-------------------|------------|---------|---------------|--------|--------------|-------|-------------|-------|
|                   |                   | Mean       | Highest | Date          | Lowest | Date         | Flood | Stage       | Stage |
| Port Jervis.....  | Delaware.....     | 2.6        | 4.9     | 6             | 1.3    | 2            | 18    |             |       |
| Phillipsburg..... | Delaware.....     | 2.4        | 6.3     | 4             | 0.9    | 1            | 22    |             |       |
| Mauch Chunk.....  | Lehigh.....       | 2.3        | 2.3     | 3             | -3.4   | 19           | 12    |             |       |
| Wilkes-Barre..... | Susquehanna.....  | 3.9        | 9.5     | 5             | 1.3    | 1            | 20    |             |       |
| Williamsport..... | Susquehanna.....  | 2.3        | 6.9     | 24            | 0.0    | 1            | 20    |             |       |
| Harrisburg.....   | Susquehanna.....  | 4.6        | 7.6     | 24            | 3.1    | 1            | 17    |             |       |
| Greensboro.....   | Monongahela.....  | 13.4       | 36.5    | 3             | 10.6   | 16           | 30    |             |       |
| West Newton.....  | Youghiogheny..... | 2.3        | 14.7    | 3             | 0.4    | 1            | 20    |             |       |
| Lock No. 4.....   | Monongahela.....  | 15.5       | 35.4    | 1             | 12.3   | 1            | 31    |             |       |
| Pittsburgh.....   | Ohio.....         | 11.9       | 23.9    | 3             | 9.8    | 1            | 25    |             |       |
| Beaver Dam.....   | Ohio.....         | 9.5        | 26.6    | 4             | 7.4    | 22           | 80    |             |       |



## Climatological Data for October, 1929

| Stations                | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                              |
|-------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|------------------------------|
|                         |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                       |
| Atlantic Drainage.      |                   |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Allentown.....          | Lehigh.....       | 254             | 17                      | 50.7                         | .....                     | 74      | 21   | 30     | 10†  | 36                       | 4.67  | +1.26                     | 1.87                 | 0                         | 8                            | 20    | 7                            | 4         | ne.        | John A. Frick.               |
| Altoona.....            | Blair.....        | 1,615           | 42                      | 50.4                         | -1.5                      | 77      | 20   | 30     | 9†   | 44                       | 9.39  | +6.90                     | 3.79                 | 0                         | 10                           | 19    | 6                            | 6         | w.         | F. E. Rooney.                |
| Arendtsville.....       | Adams.....        | 700             | 5                       | 50.4                         | .....                     | 75      | 27   | 29     | 18   | 38                       | 6.43  | .....                     | 2.03                 | 0                         | 8                            | 17    | 7                            | 7         | nw.        | Dr. S. W. Frost.             |
| Bellefonte.....         | Center.....       | 1,050           | 24                      | 48.0                         | .....                     | 79      | 20   | 26     | 10   | 47                       | 7.44  | +4.32                     | 3.87                 | T.                        | 10                           | 6     | 10                           | 15        | sw.        | U. S. Weather Bureau.        |
| Bethlehem.....          | Northampton.....  | 364             | 45                      | 54.0                         | -1.5                      | 76      | 20   | 30     | 11   | 36                       | 4.35  | +1.12                     | 2.68                 | 0                         | 7                            | 10    | 3                            | 18        | w.         | Lehigh University.           |
| Carlisle.....           | Cumberland.....   | 467             | 62                      | 52.1                         | -0.2                      | 75      | 27   | 26     | 11   | 42                       | 7.73  | +4.47                     | 4.26                 | 0                         | 7                            | 18    | 4                            | 9         | nw.        | Prof. C. E. Miller.          |
| Catawissa.....          | Columbia.....     | 520             | 32                      | 49.0                         | -4.6                      | 73      | 20†  | 24     | 11   | 42                       | 5.40  | +2.30                     | 3.88                 | T.                        | 7                            | 20    | 5                            | 6         | .....      | H. H. Yetter.                |
| Center Hall.....        | Center.....       | 1,272           | 33                      | 50.5                         | -0.9                      | 80      | 19   | 24     | 10   | 38                       | 6.47  | +3.42                     | 2.65                 | 0                         | 8                            | 18    | 3                            | 10        | .....      | S. W. Smith.                 |
| Chambersburg.....       | Franklin.....     | 580             | 29                      | 51.4                         | -1.4                      | 76      | 20   | 31     | 11†  | 41                       | 6.30  | +3.10                     | 3.48                 | T.                        | 8                            | 11    | 13                           | 7         | sw.        | William B. Spear.            |
| Clearfield.....         | Clearfield.....   | 1,120           | 19                      | 50.4                         | -2.6                      | 82      | 19   | 26     | 9†   | 52                       | 6.19  | +2.87                     | 2.15                 | T.                        | 10                           | 9     | 11                           | 11        | nw.        | E. W. Hess.                  |
| Coatesville.....        | Chester.....      | 380             | 41                      | 50.8                         | -3.5                      | 79      | 7    | 23     | 11   | 40                       | 6.11  | +2.59                     | 3.18                 | 0                         | 7                            | 12    | 13                           | 6         | nw.        | Prof. W. T. Gordon.          |
| Colebrook.....          | Lebanon.....      | 560             | 19                      | 50.0                         | -3.0                      | 73      | 21   | 27     | 11   | 38                       | 6.13  | +3.12                     | 3.24                 | 0                         | 10                           | 17    | 6                            | 8         | w.         | Wm. A. Rorer.                |
| Emporium.....           | Cameron.....      | 1,050           | 41                      | 47.0                         | -3.0                      | 74      | 20   | 22     | 10†  | 46                       | 5.07  | +1.77                     | 2.02                 | T.                        | 8                            | 12    | 6                            | 13        | sw.        | T. B. Lloyd.                 |
| Ephrata.....            | Lancaster.....    | 380             | 28                      | 51.8                         | -3.3                      | 75      | 7    | 29     | 11   | 39                       | 4.16  | +0.99                     | 2.47                 | 0                         | 8                            | 15    | 7                            | 9         | w.         | Ira J. Keath.                |
| Freeland.....           | Luzerne.....      | 1,970           | 14                      | 49.2                         | .....                     | 77      | 20   | 26     | 29   | 33                       | 7.88  | .....                     | 3.80                 | T.                        | 12                           | 8     | 6                            | 17        | nw.        | Theo. Reichmann.             |
| George School.....      | Bucks.....        | 190             | 22                      | 53.2                         | -1.7                      | 77      | 20   | 30     | 11†  | 42                       | 4.15  | +0.90                     | 1.86                 | 0                         | 7                            | 20    | 6                            | 5         | sw.        | Prof. N. W. Swayne.          |
| Gettysburg.....         | Adams.....        | 553             | 55                      | 52.8                         | +0.6                      | 75      | 7    | 31     | 11†  | 35                       | 6.01  | +2.81                     | 3.58                 | 0                         | 9                            | 15    | 6                            | 10        | s.         | Dr. Henry Stewart.           |
| Gordon.....             | Schuylkill.....   | 840             | 25                      | 48.4                         | -2.3                      | 76      | 20   | 21     | 10†  | 46                       | 6.31  | +1.93                     | 3.30                 | T.                        | 9                            | 16    | 5                            | 10        | w.         | Capt. J. G. Johnson.         |
| Gouldsboro.....         | Wayne.....        | 1,875           | 5                       | 44.6                         | .....                     | 70      | 20   | 14     | 11   | 46                       | 6.25  | +2.80                     | 1.70                 | T.                        | 8                            | 14    | 7                            | 10        | w.         | Gustav Holtz.                |
| Hamburg.....            | Berks.....        | 535             | 36                      | 51.4                         | -2.5                      | 79      | 28   | 24     | 11   | 42                       | 3.58  | -0.48                     | 2.00                 | T.                        | 8                            | 16    | 9                            | 6         | w.         | State Sanatorium.            |
| Hanover.....            | York.....         | 600             | 25                      | 53.8                         | -2.3                      | 76      | 20   | 32     | 11†  | 35                       | 6.33  | +3.47                     | 3.57                 | T.                        | 9                            | 17    | 6                            | 8         | n.         | Thomas Y. Cooper.            |
| Harrisburg.....         | Dauphin.....      | 361             | 59                      | 52.4                         | -2.4                      | 73      | 27   | 34     | 11   | 29                       | 7.10  | +4.17                     | 4.08                 | 0                         | 9                            | 10    | 9                            | 12        | w.         | U. S. Weather Bureau.        |
| Hawley.....             | Wayne.....        | 900             | 10                      | 47.7                         | .....                     | 76      | 20   | 18     | 11   | 46                       | 5.85  | .....                     | 1.95                 | T.                        | 6                            | 12    | 14                           | 5         | w.         | Mrs. Della M. Pennell.       |
| Holtwood.....           | Lancaster.....    | 200             | 14                      | 55.7                         | .....                     | 75      | 8†   | 37     | 11†  | 34                       | 5.60  | +3.32                     | 1.95                 | 0                         | 10                           | 14    | 8                            | 9         | nw.        | H. W. Lowy, C. E.            |
| Huntingdon.....         | Huntingdon.....   | 650             | 41                      | 50.4†                        | -2.1                      | 77†     | 20   | 27†    | 10†  | 48†                      | 7.80  | +4.79                     | 3.48                 | 0                         | 7                            | 11    | 7                            | 13        | w.         | Prof. H. A. Conner.          |
| Hyndman.....            | Bedford.....      | 977             | 18                      | 51.8                         | -1.5                      | 79      | 20   | 28     | 18   | 46                       | 7.03  | +4.17                     | 3.27                 | T.                        | 12                           | 12    | 7                            | 12        | nw.        | Horace A. Sheavly.           |
| Kylertown.....          | Clearfield.....   | 1,637           | 41                      | 48.1                         | .....                     | 76      | 20   | 22     | 10   | 42                       | 6.14  | .....                     | 2.59                 | T.                        | 9                            | 13    | 5                            | 13        | nw.        | U. S. Bureau Plant Industry. |
| Lancaster.....          | Lancaster.....    | 255             | 41                      | 51.4                         | -2.0                      | 78      | 7†   | 25     | 11   | 47                       | 4.65  | +1.57                     | 2.66                 | 0                         | 9                            | 20    | 3                            | 8         | .....      | Supt. of Water Works.        |
| Lawrenceville.....      | Tioga.....        | 1,000           | 31                      | 46.2                         | -4.3                      | 67      | 20†  | 22     | 10   | 40                       | 3.87  | +1.11                     | 1.85                 | 0                         | 9                            | 8     | 11                           | 12        | .....      | C. P. Darling.               |
| Lebanon.....            | Lebanon.....      | 449             | 88                      | 51.4                         | -1.8                      | 75      | 27   | 30     | 11   | 37                       | 5.50  | +1.98                     | 2.17                 | T.                        | 10                           | 16    | 8                            | 7         | sw.        | S. B. Benzing.               |
| Lewisburg.....          | Union.....        | 450             | 54                      | 51.3                         | +1.1                      | 76      | 26   | 26     | 11   | 44                       | 6.87  | +3.63                     | 3.77                 | 0                         | 7                            | 11    | 8                            | 12        | w.         | Prof. W. G. Owens.           |
| Lock Haven.....         | Clinton.....      | 560             | 39                      | 51.0                         | -2.3                      | 72      | 21   | 26     | 18   | 37                       | 5.57  | +2.32                     | 2.83                 | T.                        | 7                            | 15    | 9                            | 7         | nw.        | Joseph Beaver.               |
| Lykens.....             | Dauphin.....      | 680             | 14                      | 50.8                         | -2.6                      | 78      | 1    | 22     | 10†  | 43                       | 9.04  | +5.81                     | 3.76                 | T.                        | 5                            | 14    | 7                            | 10        | sw.        | Susquehanna Collieries Co.   |
| Mauch Chunk.....        | Carbon.....       | 600             | 38                      | 49.4                         | -2.9                      | 77      | 20   | 20     | 11   | 47                       | 5.77  | +2.01                     | 3.60                 | 0                         | 8                            | 16    | 2                            | 13        | w.         | R. K. Wintermute.            |
| Midlinton.....          | Juniata.....      | 445             | 25                      | 50.2                         | -2.2                      | 74      | 20   | 27     | 11   | 43                       | 8.06  | +4.82                     | 3.85                 | 0                         | 4                            | 8     | 12                           | 11        | w.         | Wellington Smith.            |
| Montrose.....           | Susquehanna.....  | 1,720           | 26                      | 46.6                         | -2.4                      | 72      | 20   | 23     | 10   | 36                       | 3.85  | +0.33                     | 2.13                 | 0                         | 8                            | 16    | 2                            | 13        | nw.        | Silas Jagger.                |
| Mt. Pocono.....         | Monroe.....       | 1,658           | 25                      | 46.2                         | -1.2                      | 73      | 20   | 20     | 10†  | 39                       | 8.23  | +3.21                     | 4.25                 | T.                        | 8                            | 12    | 6                            | 13        | nw.        | Cecil J. Hoskinson.          |
| Muncy Valley.....       | Sullivan.....     | 1,045           | 17                      | 48.2                         | -2.4                      | 78      | 22   | 23     | 18   | 46                       | 4.92  | +1.56                     | 2.77                 | 0                         | 9                            | 11    | 9                            | 11        | nw.        | H. O. Hacker.                |
| Narberth.....           | Montgomery.....   | 300             | 10                      | 52.4                         | .....                     | 76      | 7    | 29     | 18   | 36                       | 5.03  | .....                     | 2.58                 | 0                         | 8                            | 12    | 8                            | 11        | sw.        | Charles Decker.              |
| Neshaminy Falls II..... | Bucks.....        | 60              | 40                      | 51.6                         | -2.4                      | 77      | 21   | 27     | 11   | 43                       | 4.96  | .....                     | 1.53                 | 0                         | 11                           | 19    | 5                            | 7         | w.         | North Springfield Water Co.  |
| Palmerston.....         | Carbon.....       | 398             | 12                      | 49.6                         | .....                     | 75      | 20   | 24     | 9†   | 41                       | 5.65  | .....                     | 2.44                 | 0                         | 6                            | 5     | 10                           | 16        | ne.        | New Jersey Zinc Co.          |
| Philadelphia.....       | Philadelphia..... | 114             | 58                      | 55.8                         | -2.0                      | 77      | 7    | 37     | 18   | 27                       | 3.59  | +0.78                     | 2.04                 | 0                         | 8                            | 13    | 10                           | 8         | .....      | U. S. Weather Bureau.        |
| Philadelphia-Gtn.....   | Philadelphia..... | 113             | 5                       | 55.2                         | .....                     | 77      | 7    | 35     | 18   | 31                       | 3.75  | .....                     | 1.56                 | 0                         | 8                            | 13    | 10                           | 8         | .....      | Julius Bernstein.            |
| Phila. Navy Yard.....   | Philadelphia..... | 12              | 13                      | 54.2                         | -3.2                      | 79      | 7    | 34     | 11   | 31                       | 4.75  | +2.10                     | 1.45                 | 0                         | 11                           | 15    | 4                            | 12        | ne.        | Commandant, Navy Yard.       |
| Phila-Point Breeze..... | Philadelphia..... | 90              | 4                       | 56.2                         | .....                     | 76      | 7†   | 35     | 18   | 29                       | 3.18  | .....                     | 1.35                 | 0                         | 6                            | 11    | 7                            | 13        | sw.        | Atlantic Refining Co.        |
| Phoenixville.....       | Chester.....      | 100             | 18                      | 53.8                         | -0.6                      | 78      | 13   | 27     | 9    | 41                       | 6.37  | +3.57                     | 3.87                 | 0                         | 7                            | 18    | 7                            | 6         | .....      | North Springfield Water Co.  |
| Quakertown.....         | Bucks.....        | 496             | 44                      | 51.2                         | -0.9                      | 74      | 20   | 24     | 11   | 42                       | 5.04  | +1.67                     | 3.12                 | 0                         | 9                            | 11    | 12                           | 9         | nw.        | John E. Benner.              |
| Reading.....            | Berks.....        | 325             | 59                      | 53.3                         | -1.4                      | 76      | 20   | 34     | 11   | 35                       | 5.45  | +2.33                     | 3.61                 | 0                         | 8                            | 11    | 11                           | 9         | nw.        | U. S. Weather Bureau.        |
| Scranton.....           | Lackawanna.....   | 805             | 34                      | 50.2                         | -1.6                      | 77      | 20   | 28     | 11   | 39                       | 4.20  | +1.17                     | 2.97                 | T.                        | 8                            | 5     | 13                           | 13        | sw.        | U. S. Weather Bureau.        |
| Selinsgrove.....        | Snyder.....       | 455             | 39                      | 51.4                         | -1.2                      | 74      | 20   | 28     | 10   | 41                       | 7.30  | +3.76                     | 4.48                 | 0                         | 5                            | 14    | 8                            | 9         | nw.        | Dr. George E. Fisher.        |
| Shawmont II.....        | Philadelphia..... | 51              | 33                      | 53.8                         | .....                     | 79      | 22   | 31     | 18   | 34                       | 4.45  | +1.11                     | 2.60                 | T.                        | 7                            | 14    | 9                            | 11        | w.         | W. S. Gules.                 |
| State College.....      | Center.....       | 1,217           | 44                      | 49.5                         | -1.5                      | 76      | 20   | 27     | 10   | 38                       | 7.06  | +4.17                     | 2.99                 | 0                         | 5                            | 11    | 13                           | 7         | w.         | C. A. Kern.                  |
| Stroudsburg.....        | Monroe.....       | 500             | 13                      | 48.1                         | -4.9                      | 74      | 20†  | 21     | 11   | 44                       | 4.98  | +0.88                     | 2.40                 | 0                         | 5                            | 11    | 6                            | 14        | nw.        | State Normal School.         |
| Towanda.....            | Bradford.....     | 754             | 34                      | 48.2                         | -2.6                      | 76      | 20   | 24     | 10   | 43                       | 4.22  | +1.12                     | 3.01                 | T.                        | 10                           | 11    | 6                            | 14        | sw.        | Hiram E. Bull, C. E.         |
| Wellsboro.....          | Tioga.....        | 1,419           | 63                      | 46.0                         | -3.1                      | 69      | 20   | 20     | 10   | 39                       | 5.89  | +2.69                     | 2.26                 | T.                        | 7                            | 16    | 6                            | 9         | w.         | George W. Hill.              |
| West Chester.....       | Chester.....      | 455             | 91                      | 52.8                         | -1.7                      | 75      | 7    | 32     | 18   | 32                       | 5.51  | +1.77                     | 2.90                 | 0                         | 8                            | 17    | 9                            | 5         | nw.        | Joseph W. Belt.              |
| Williamsport.....       | Lycoming.....     | 521             | 42                      | 50.4                         | -2.2                      | 73      | 7    | 26     | 11   | 40                       | 8.81  | +5.44                     | 3.45                 | T.                        | 12                           | 6     | 4                            | 21        | sw.        | Miss Veronica E. April.      |
| York.....               | York.....         | 400             | 41                      | 51.5                         | -2.1                      | 75      | 20†  | 28     | 11   | 42                       | 8.55  | +5.67                     | 4.45                 | 0                         | 9                            | 11    | 13                           | 7         | e.         | York Water Co.               |
| Ohio Drainage.          |                   |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Beaver Dam II.....      | Beaver.....       | 700             | 36                      | 52.0                         | -3.5                      | 85      | 19   | 29     | 18   | 51                       | 3.78  | +1.27                     | 1.93                 | T.                        | 12                           | 8     | 9                            | 14        | sw.        | U. S. Engineer.              |
| Bradford.....           | McKean.....       | 1,460           | 14                      | 49.0                         | .....                     | 72      | 12†  | 20     | 18   | 38                       | 4.47  | .....                     | 2.10                 | T.                        | 12                           | 7     | 14                           | 10        | nw.        | Supt. Timber Pres. Plant.    |
| Brookville.....         | Jefferson.....    | 1,173           | 38                      | 45.5†                        | -4.9                      | 79†     | 12   | 21†    | 10†  | 48†                      | 7.39  | +4.42                     | 3.00                 | 0                         | 7                            | 20    | 7                            | 4         | nw.        | John Fawcett.                |
| Butler.....             | Butler.....       | 1,152           | 4                       | 50.2                         | .....                     | 76      | 12†  | 27     | 18   | 48                       | 4.68  | .....                     | 3.01                 | T.                        | 5                            | 15    | 6                            | 10        | nw.        | William C. Faust             |



## Daily Precipitation for October, 1929

| Stations           | Drainage Basin | Day of month |      |      |     |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     |      |      |      |     |     |    |     |     |     |      | Total |      |
|--------------------|----------------|--------------|------|------|-----|----|----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|------|------|-----|-----|----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2    | 3    | 4   | 5  | 6  | 7   | 8   | 9  | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22   | 23   | 24   | 25  | 26  | 27 | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |      |      |     |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     |      |      |      |     |     |    |     |     |     |      |       |      |
| Allentown          | Lehigh         | .04          | 1.07 | 1.85 | .02 |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | .07  | 1.18 |      |     |     |    |     |     | .06 | .38  | 4.67  |      |
| Altoona            | Juniata        | T.           | 3.15 | 1.50 | .03 |    |    |     |     |    |    |     | .08 |     | .03 | .02 |     |     |     |     |    |     | 3.79 | .30  |      |     |     |    |     |     | .35 | .14  | 9.39  |      |
| Ansonia            | W. Br. Susq.   | .08          | .83  | 1.56 | .02 |    |    | T.  |     |    |    | .14 |     |     |     |     |     | T.  |     |     |    | .14 | 1.27 | T.   | .04  |     |     |    |     |     | T.  | .11  | 4.19  |      |
| Arendtsville       | Lower Susq.    | .37          | 2.03 | 1.54 | .15 |    |    |     |     |    |    |     |     |     |     | .01 |     | .17 |     |     |    |     | 1.91 | .03  |      | T.  |     |    |     |     |     | .39  | 6.43  |      |
| Baker's Summit     | Juniata        |              | .26  | .35  | .24 |    |    |     |     |    |    |     | .01 |     | .17 |     |     |     |     |     |    |     | 3.72 | .15  |      | .02 |     |    |     |     | .22 | .10  | 7.61  |      |
| Bellefonte         | W. Br. Susq.   | .12          | 3.87 | .31  | T.  |    |    |     |     |    |    | T.  | .04 | T.  |     | .05 | T.  |     |     |     |    | .02 | 2.70 | T.   | T.   |     |     |    | .01 | .27 | .05 | 7.44 |       |      |
| Bethlehem          | Lehigh         | .07          | 2.68 | .06  | T.  |    |    |     |     |    |    |     | T.  |     |     |     |     |     |     |     |    |     | .86  | .24  | T.   | T.  |     |    |     |     | .33 | .11  | 4.35  |      |
| Bloersville        | Lower Susq.    |              | 2.90 | .60  |     |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | 2.76 | .05  | T.   | T.  |     |    |     |     | .50 | .05  | 6.86  |      |
| Carlisle           | Lower Susq.    | .07          | 4.26 | T.   | .08 |    |    |     |     |    |    |     |     |     |     | T.  |     |     |     |     |    |     | 2.93 |      | .02  |     |     |    |     |     | .26 | .11  | 7.73  |      |
| Catawissa          | N. Br. Susq.   | T.           | 3.88 | .27  |     |    |    |     |     |    |    |     |     | .08 |     |     | T.  |     |     |     |    |     | .55  | .10  |      |     |     |    |     |     | .30 | .22  | 5.40  |      |
| Center Hall        | Susquehanna    | .10          | 2.56 | .48  |     |    |    |     |     |    |    |     |     | .24 |     |     | .18 |     |     |     |    |     | 2.65 | .10  |      | .10 |     |    |     |     | .16 |      | 6.47  |      |
| Chambersburg       | Potomac        | .23          | 3.48 | .35  | .14 |    |    |     |     |    |    |     |     |     |     |     | .02 |     |     |     |    |     | 1.73 |      | T.   |     |     |    |     | T.  | .25 | .10  | 6.30  |      |
| Clearfield         | W. Br. Susq.   | T.           | 2.15 | 1.20 |     |    |    | .02 |     | T. |    |     |     | .25 | .03 |     | T.  |     |     |     |    |     | 1.51 | .30  | T.   | .15 |     |    |     |     | .23 | .35  | 6.19  |      |
| Coatesville        | Lower Del.     | .61          | 3.18 | .08  | .16 |    |    |     |     |    |    |     |     |     |     |     | T.  |     |     |     |    |     | 1.16 |      | T.   |     |     |    |     |     | .55 | .37  | 6.11  |      |
| Colebrook          | Lower Susq.    | .47          | 3.24 | .25  | .03 |    |    |     |     |    |    |     |     |     | .21 | .02 |     |     |     |     |    |     | 1.44 |      | .04  |     |     |    |     |     | .36 | .07  | 6.13  |      |
| Conshohocken       | Schuylkill     | .55          | 1.54 | T.   | .11 |    |    |     |     |    |    |     |     |     | .18 | .05 | T.  |     |     |     |    |     | .92  |      |      |     |     |    |     |     | .54 | .17  | 4.06  |      |
| Cresson            | Juniata        | .70          | 4.18 |      | .07 |    |    |     |     |    |    |     |     |     | .21 |     |     |     |     |     |    |     | 4.45 |      |      |     |     |    |     |     | .31 |      | 9.92  |      |
| Doylestown         | Lower Del.     | .38          | 1.94 | .06  | .01 |    |    |     |     |    |    |     |     | T.  |     | T.  | .13 | T.  |     |     |    |     | .92  |      |      | T.  |     |    |     |     | .47 | .14  | 4.05  |      |
| Driftwood          | W. Br. Susq.   |              | 3.10 |      |     |    |    |     |     |    |    |     | .30 |     |     |     |     |     |     |     |    |     | 1.20 | .84  |      |     |     |    |     |     | .10 | .30  | 5.84  |      |
| Emporium           | do.            |              | 2.02 | .83  | T.  |    |    | T.  | T.  |    |    |     |     | .32 | .07 |     |     | T.  | T.  |     |    |     | 1.46 |      | T.   | .09 |     |    |     |     | .15 | .13  | 5.07  |      |
| Ephrata            | Lower Susq.    | .40          | 2.47 | .07  | .08 |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | .63  |      | T.   |     |     |    |     |     | .39 | .10  | 4.16  |      |
| Forest City        | N. Br. Susq.   |              | 1.28 | 2.05 | .05 |    |    |     | .06 |    |    |     |     | T.  |     |     | T.  | .07 |     |     |    |     |      | 1.17 | T.   | .02 |     |    |     |     | T.  | .15  | 4.85  |      |
| Freeland           | Lehigh         | .08          | 1.65 | 3.80 | .20 |    |    |     |     |    |    |     |     | .01 |     | .01 |     | .01 |     |     |    |     | T.   | .32  | 1.41 |     | .06 |    |     |     | .03 | .28  | 7.88  |      |
| George School      | Lower Del.     | .27          | 1.86 | .04  |     |    |    |     |     |    |    |     |     |     |     |     | T.  | .27 |     |     |    |     | 1.06 | T.   |      |     |     |    |     |     | .48 | .17  | 4.15  |      |
| Gettysburg         | Potomac        | .22          | 3.58 | .24  | .18 | T. |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | 1.10 | .15  | .02  |     |     |    |     | T.  | .26 | .26  | 6.01  |      |
| Girardville        | Lower Susq.    | 3.07         | 1.33 | .51  |     |    |    |     |     |    |    |     |     |     | T.  | T.  |     | T.  | .08 |     |    |     | .10  | 1.22 |      | .15 | T.  |    |     |     | .37 | .23  | 7.06  |      |
| Gordon             | Lower Susq.    |              | 3.30 | .75  |     |    |    |     |     |    |    |     |     | .02 |     |     |     | T.  |     |     |    |     | 1.54 | .13  | .06  | .02 |     |    |     |     | .30 | .19  | 6.31  |      |
| Gouldsboro         | Lehigh         | .08          | 1.20 | 1.50 | .30 |    |    |     |     |    |    |     |     |     |     |     |     |     | .05 |     |    |     | 1.20 | 1.70 |      |     |     |    |     |     | .22 |      | 6.25  |      |
| Graterford         | Schuylkill     | .28          | 2.97 | .11  | .07 |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | 1.27 |      |      |     |     |    |     |     | .65 | .11  | 5.46  |      |
| Hamburg            | Schuylkill     | .02          | 2.00 | .22  |     |    |    |     |     |    |    |     |     |     |     | .05 |     | T.  |     |     |    |     | .66  |      |      | .03 |     |    |     |     | .45 | .15  | 3.58  |      |
| Hanover            | Lower Susq.    | .37          | 3.57 | .25  | .17 |    |    |     |     |    |    |     |     |     |     |     | .01 | T.  |     |     |    |     | 1.49 |      | .02  |     |     |    |     |     | .24 | .21  | 6.33  |      |
| Harrisburg         | do.            | .24          | 3.95 | .05  | .05 |    |    |     |     |    |    |     |     |     |     |     |     | T.  |     |     |    |     | 2.18 |      | .03  |     |     |    |     |     | T.  | .46  | .10   | 7.10 |
| Hawley             | Upper Del.     | .04          | 1.73 | 1.95 |     |    |    |     | .03 |    |    |     |     |     |     |     |     |     |     |     |    |     |      | 1.93 |      |     |     |    |     |     |     | T.   | .17   | 5.85 |
| Hollisterville     | Upper Del.     | T.           | 1.70 | 2.32 | .14 |    |    |     |     |    |    |     |     | .03 |     |     |     |     |     |     |    |     | T.   | 1.85 |      |     | T.  |    |     |     | T.  | .16  | 6.24  |      |
| Holtwood           | Lower Susq.    | 1.03         | 1.95 | .90  | .18 |    |    |     |     |    |    |     |     |     |     | .03 | .02 | .04 |     |     |    |     | .65  | .45  |      |     |     |    |     |     | .07 | .32  | 5.60  |      |
| Huntingdon         | Juniata        | .01          | 3.48 | .83  |     |    |    | T.  |     |    |    |     |     |     |     |     | .02 |     |     |     |    |     | 2.85 |      |      | T.  |     |    |     |     | T.  | .41  | .20   | 7.80 |
| Hyndman            | Potomac        | .20          | 3.27 | .45  | .20 |    |    |     |     |    |    |     |     | .01 |     | .18 | .07 |     |     |     |    |     | 2.22 |      | T.   | .04 |     |    |     |     | .26 | .09  | 7.03  |      |
| Kylertown          | W. Br. Susq.   |              | 2.59 | .97  |     |    |    |     |     |    |    |     |     |     | .02 | .05 |     |     |     |     |    |     | 2.00 |      | .02  | .03 |     |    |     |     | .23 | .23  | 6.14  |      |
| Lakeville          | Upper Del.     | .05          | 1.53 | 2.32 | .05 |    | T. |     |     |    |    |     |     |     |     |     | T.  |     |     |     |    |     | 1.73 |      |      |     |     |    |     |     | .20 | .58  |       |      |
| Lancaster          | Lower Susq.    | .45          | 2.66 |      | .10 |    |    |     |     |    |    |     |     |     |     |     | .11 | .03 | .03 |     |    |     | .70  |      |      |     |     |    |     |     | .40 | .17  | 4.65  |      |
| Lansford           | Lehigh         | .04          | 1.65 | 2.47 | .04 |    |    |     |     |    |    |     |     |     |     |     | .01 |     |     |     |    |     | 1.19 | 1.35 |      | .01 |     |    |     |     | .03 | .31  | 6.10  |      |
| Lawrenceville      | N. Br. Susq.   |              | 1.85 | .60  | T.  |    |    | .10 |     |    |    |     |     |     | .20 | .10 |     |     |     |     |    |     | .40  |      | .37  | T.  |     |    |     |     | .15 | .10  | 3.87  |      |
| Lebanon            | Lower Susq.    | 2.17         | 1.52 | .05  |     |    |    |     |     |    |    |     |     |     |     |     | .01 | T.  |     |     |    |     | .20  | .97  |      | .05 | T.  |    |     |     | .21 | .27  | .05   | 5.50 |
| Lewisburg          | W. Br. Susq.   | T.           | 3.77 | .65  |     |    |    |     |     |    |    |     |     |     |     |     |     | T.  |     |     |    |     | 1.69 | .27  | .06  |     |     |    |     |     | .21 | .22  | 6.87  |      |
| Lloyd              | do.            |              | 1.40 | 1.51 |     |    |    |     |     |    |    |     |     |     |     |     |     |     | .01 |     |    |     | .31  | 1.80 | .60  |     |     |    |     |     | .12 | .57  |       |      |
| Lock Haven         | do.            |              | 2.83 | .58  |     |    |    |     |     |    |    |     |     |     | .01 |     |     |     | .02 |     |    |     | 1.56 | .09  | .02  | .01 |     |    |     |     | .19 | .26  | 5.57  |      |
| Lykens             | Susquehanna    | .04          | 3.76 | .96  | T.  |    |    |     |     |    |    |     |     |     |     |     | T.  | T.  | T.  |     |    |     | 3.00 | T.   | .75  | T.  |     |    |     |     | .41 | .12  | 9.04  |      |
| Mauch Chunk        | Lehigh         |              | 3.60 | .23  |     |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | 1.46 |      |      |     |     |    |     |     | .31 | .17  | 5.77  |      |
| Mifflintown        | Juniata        | .05          | 3.85 | .37  |     |    |    |     |     |    |    |     |     |     |     |     | .05 |     |     |     |    |     | 2.88 |      | .07  |     |     |    |     |     | .42 | .37  | 8.06  |      |
| Montrose           | N. Br. Susq.   |              | 2.13 | .47  |     |    |    |     |     |    |    |     |     |     |     |     |     |     |     |     |    |     | 1.20 |      |      |     |     |    |     |     | .05 |      | 3.85  |      |
| Morris Run         | N. Br. Susq.   |              | 2.52 | .92  |     |    |    |     |     |    |    |     |     | T.  | .10 |     |     | .06 |     |     |    |     | 1.10 | .60  | .06  |     |     |    |     |     | .06 | .05  | 5.47  |      |
| Mount Pocono       | Upper Del.     |              | 4.25 | .57  |     |    |    |     |     |    |    |     |     |     |     |     |     | T.  | .22 | .02 |    |     | 2.70 |      | .02  |     |     |    |     |     | .35 | .10  | 8.23  |      |
| Muncy Valley       | W. Br. Susq.   |              | 2.77 | .47  |     |    |    |     |     |    |    |     |     |     |     |     |     | T.  | .09 | T.  |    |     | 1.09 | .14  | .13  | T.  |     |    |     |     | .04 | .15  | 4.92  |      |
| Narberth           | Lower Del.     | .57          | 2.58 | .02  | .06 |    |    |     |     |    |    |     |     |     |     |     |     | T.  | .34 | T.  |    |     | .73  |      |      |     |     |    |     |     | .41 | .32  | 5.    |      |



## Daily Precipitation for October, 1929—Continued from page 48

| Stations          | Drainage Basin | Day of month |      |      |     |     |     |     |     |    |    |    |      |     |     |     |     |     |     |    |    |    |      |      |     |     |     |    |    |     |      |      | Total |      |
|-------------------|----------------|--------------|------|------|-----|-----|-----|-----|-----|----|----|----|------|-----|-----|-----|-----|-----|-----|----|----|----|------|------|-----|-----|-----|----|----|-----|------|------|-------|------|
|                   |                | 1            | 2    | 3    | 4   | 5   | 6   | 7   | 8   | 9  | 10 | 11 | 12   | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20 | 21 | 22   | 23   | 24  | 25  | 26  | 27 | 28 | 29  | 30   | 31   |       |      |
| Ohio Drainage.    |                |              |      |      |     |     |     |     |     |    |    |    |      |     |     |     |     |     |     |    |    |    |      |      |     |     |     |    |    |     |      |      |       |      |
| Beaver Dam\|\|\| | Ohio           | T.           | .44  | 1.93 | .12 |     |     |     |     |    |    |    | .02  | .23 |     |     |     |     |     |    |    |    |      | .23  | .38 | .05 | .11 |    |    |     | .01  | .04  | .22   | 3.78 |
| Beaver Falls\|\|\| | Beaver         | T.           | .45  | 1.63 | .03 |     |     |     |     |    |    |    | T.   | .11 |     | T.  | .02 |     |     |    |    |    |      | .20  | .39 | .05 | .08 |    |    |     | T.   | .01  | .23   | 3.20 |
| Bradford          | Allegheny      |              | 2.10 | .80  |     |     |     |     | T.  |    |    |    |      | .23 | .05 |     | .02 | .03 |     |    |    |    |      | .66  | .04 | .02 | .12 |    |    |     |      | .26  | .14   | 4.47 |
| Brookville        | do             | .14          | 3.00 | .25  |     |     |     |     |     |    |    |    | .30  |     |     |     |     |     |     |    |    |    | 3.00 |      | .35 |     |     |    |    |     | .35  |      | 7.39  |      |
| Butler            | Ohio           |              | 3.01 |      |     |     |     |     |     |    |    |    |      |     | .10 |     |     |     |     |    |    |    | 1.00 |      | .29 |     |     |    |    |     |      | .28  | 4.68  |      |
| Claysville        | do             |              | 2.92 | .55  | .48 |     |     | T.  | T.  |    |    |    | .04  | .04 |     |     | .47 |     |     |    |    |    | .19  | .70  |     | .13 | .02 |    |    | .14 | .29  | .04  | 6.01  |      |
| Cloeff            | Allegheny      | .07          | 2.90 | .55  |     |     |     | T.  |     |    |    |    | .24  | .12 | .06 |     |     |     |     |    |    |    | 2.07 |      |     | .06 | T.  |    |    |     | T.   | .44  | T.    | 6.51 |
| Clymer††          | Conemaugh      | .06          | 2.39 | 1.07 | .07 |     |     | T.  |     |    |    |    | .12  | T.  | .03 |     |     |     |     |    |    |    | 1.02 | .06  | .03 | .06 |     |    |    |     | .28  | .08  | 5.27  |      |
| Confluence\|\|\| | Youghiogheny   |              | 1.40 | 3.12 | .29 |     |     |     |     |    |    |    |      | .01 |     |     | .50 |     |     |    |    |    | .40  |      |     | .10 |     |    |    | .05 | .08  | .10  | 6.14  |      |
| Coraopolis\|\|\| | Ohio           | .02          | .89  | 2.48 | .22 | T.  |     |     | T.  |    |    |    | T.   | .02 | .18 |     | .05 |     |     |    |    |    | .22  | .88  | .05 | .11 |     |    |    | .02 | .02  | .19  | 5.35  |      |
| Corry             | Allegheny      |              | 1.01 | 1.06 | T.  |     |     | .12 |     |    |    |    | .11  | .10 |     |     |     |     |     |    |    |    | 1.77 |      | .12 |     |     |    |    | .05 | .09  | .03  | 4.87  |      |
| Coudersport       | do             |              | 3.26 |      |     |     |     | .03 |     |    |    |    | .18  |     |     |     | .05 | T.  |     |    |    |    | .82  | .74  | .02 | .09 | .01 |    |    |     | .05  | .09  | .03   | 4.87 |
| Creekside         | Allegheny      |              | *    | 3.18 | .07 |     |     | .03 |     |    |    |    |      |     | .10 |     |     | .02 |     |    |    |    | 1.51 |      |     | .13 |     |    |    |     | .11  |      | 5.04  |      |
| Derry             | Conemaugh      | .04          | 2.89 | .35  | .22 |     |     | .03 |     |    |    |    | .13  | .10 |     |     | .09 |     |     |    |    |    | .47  |      | T.  |     |     |    |    | .01 | .15  | .10  | 5.67  |      |
| Donora\|\|\| | Monongahela    | 1.83         | 1.90 | .30  |     |     |     |     |     |    |    |    | T.   | .02 | T.  | T.  | T.  | .02 |     |    |    |    | .60  | .70  | T.  | .04 |     |    |    |     | .24  |      | 6.02  |      |
| Ebensburg         | Conemaugh      | .08          | 3.05 | 1.34 | .10 |     |     |     |     |    |    |    |      | .09 | T.  |     | .60 |     |     |    |    |    | 1.00 | T.   |     |     |     |    |    |     | .05  | .12  | 7.94  |      |
| Elk Lick          | Youghiogheny   | .78          | 4.00 | .32  | .53 |     |     |     |     |    |    |    |      | .12 |     |     |     |     |     |    |    |    | .75  | .04  |     | .33 |     |    |    | .30 | .05  | .12  | 6.14  |      |
| Falls Creek       | Allegheny      | .05          | 1.94 | 1.40 |     |     |     |     |     |    |    |    | .42  |     |     |     |     |     |     |    |    |    | 1.59 | .21  | .03 | .09 |     |    |    |     | .10  | .31  |       |      |
| Franklin\|\|\| | Allegheny      | .04          | .10  | 2.75 |     | .04 |     | .04 | .05 |    |    |    | .03  | .19 |     |     |     | .04 |     |    |    |    | .05  | .94  | .05 | .28 | .05 |    |    |     | .12  | .30  | 5.07  |      |
| Freeport\|\|\| | do             | .01          | 1.19 | 2.56 | .04 | T.  |     | T.  |     |    |    |    | T.   | .26 |     | .03 |     | T.  |     |    |    |    | .20  | .84  | .01 | .11 |     |    |    | .02 | .06  | .19  | 5.52  |      |
| Greensboro        | Monongahela    | 1.24         | 2.76 |      | .03 | T.  |     |     |     |    |    |    | .18  |     |     | T.  | T.  | .45 |     |    |    |    | T.   | .92  |     | T.  |     |    |    | .03 | .04  | T.   | 5.65  |      |
| Greensburg        | Youghiogheny   | T.           | 2.46 | .66  | .15 |     |     | .03 |     |    |    |    | T.   | .12 | .09 |     | .02 | T.  |     |    |    |    | T.   | .40  | .02 | T.  | .02 |    |    |     | .05  | .14  | .06   | 4.22 |
| Greenville        | Beaver         | 1.55         | .05  | .05  |     |     |     |     |     |    |    |    | .06  | .03 | .07 |     | T.  |     |     |    |    |    | T.   | .81  | .58 | .22 | .42 |    |    |     | T.   | .12  | .11   | 4.07 |
| Grove City        | Beaver         | 2.16         | .56  | .02  |     |     |     | .03 |     |    |    |    | .22  |     |     |     |     |     |     |    |    |    | T.   | .75  | .05 | .09 | .28 |    |    |     | .20  | .24  |       | 4.60 |
| Herr's Isl. Dam\|\|\| | Ohio           | T.           | 1.20 | 2.13 | .12 | T.  |     |     | T.  |    |    |    | T.   | .14 |     |     |     | T.  |     |    |    |    | .30  | .89  | .01 | .08 |     |    |    |     | .01  | .08  | .17   | 5.13 |
| Ingram            | Ohio           |              | 3.48 | .45  | .10 |     |     | .01 |     |    |    |    | .02  | .17 |     |     | .04 |     |     |    |    |    | .02  | 1.58 | .04 | .09 | .01 |    |    |     | .05  | .23  | .08   | 6.37 |
| Irwin             | Youghiogheny   | T.           | 1.60 | .24  | .10 |     |     |     |     |    |    |    | .03  | .07 |     |     | .05 |     |     |    |    |    | T.   | .56  | .09 | .05 | T.  |    |    |     |      | .35  | .14   | 3.28 |
| Johnstown         | Conemaugh      | .10          | 2.90 | .75  | .16 |     |     | .04 |     |    |    |    | .08  | .20 |     |     | .06 |     |     |    |    |    | 1.56 | .05  | .03 |     |     |    |    |     | .32  | .02  | 6.27  |      |
| Kregar\|\|\| | Youghiogheny   | 1.11         | 3.24 | .40  | .01 |     |     | .04 |     |    |    |    | .12  | T.  | .02 |     | .22 |     |     |    |    |    | T.   | .55  |     | .12 |     |    |    |     | T.   | .10  | T.    | 5.93 |
| Lock No. 4\|\|\| | Monongahela    | .02          | .98  | 2.28 | .40 |     |     |     |     |    |    |    | .11  |     |     |     | .03 | .05 |     |    |    |    | .29  | 1.16 | .09 |     |     |    |    |     | .02  | .12  | .11   | 5.66 |
| Lycippus          | Conemaugh      | T.           | 2.94 | .41  | .22 |     |     |     |     |    |    |    | .24  | .08 |     |     | .04 |     |     |    |    |    | .50  |      | .02 |     |     |    |    |     | .13  |      | 4.58  |      |
| Meadville         | Allegheny      |              | 1.10 | .75  |     |     |     |     |     |    |    |    | .10  |     |     |     |     |     |     |    |    |    | .14  | .28  | .24 | .30 |     |    |    |     | .02  | .05  | 2.98  |      |
| Mount Lebanon     | Ohio           |              | 3.00 | .48  |     |     |     |     |     |    |    |    | .40  | .02 |     |     |     |     |     |    |    |    | .06  | 1.35 |     | .10 |     |    |    |     | .07  | .18  | .06   | 5.72 |
| New Castle\|\|\| | Beaver         | .02          | .40  | 1.58 | .03 | .02 | .02 | .02 |     |    |    |    | .02  | .18 |     |     | .22 | .01 |     |    |    |    | .19  | 1.39 | .16 | .08 | .02 |    |    |     | .08  | .01  | .23   | 4.63 |
| Newell            | Monongahela    |              | 1.88 | .48  | .28 |     |     |     |     |    |    |    | .13  |     |     |     |     |     |     |    |    |    | 1.17 |      |     |     |     |    |    |     | .26  |      | 4.20  |      |
| Parkers Landing\|\|\| | Allegheny      | T.           | .85  | 2.67 |     |     |     | T.  |     |    |    |    |      | T.  | .22 |     |     |     |     |    |    |    | .10  | 1.07 | .05 | .40 | T.  |    |    |     | .08  | .50  |       | 5.94 |
| Pennline\|\|\|†† | Beaver         |              | T.   | .60  |     | .07 |     | .04 |     |    |    |    | .03  |     | .13 |     |     |     |     |    |    |    | .14  | .76  | .26 | .45 |     |    |    |     |      | .07  | 2.55  |      |
| Pittsburgh***     | Ohio           | .03          | 3.22 | .05  | .10 |     |     | T.  |     |    |    |    | .01  | .13 |     |     | T.  |     | .02 |    |    |    | .01  | 1.12 | .02 | .08 |     |    |    | .03 | .24  | .01  | 5.07  |      |
| Ridgway           | Allegheny      | .71          | 1.80 |      |     |     |     |     |     |    |    |    | .32  |     |     |     | .05 |     |     |    |    |    | .18  | 1.53 | .02 | .16 |     |    |    |     | .07  | .23  | .03   | 5.10 |
| Saltsburg\|\|\| | Conemaugh      | .02          | 1.12 | 2.00 | .15 |     |     |     | T.  |    |    |    | T.   | .05 |     |     | T.  |     |     |    |    |    | .03  | .69  |     | .10 |     |    |    |     |      | .03  | .06   | 4.53 |
| Sharon\|\|\| | Beaver         | .04          | .09  | 1.06 |     |     |     |     | T.  |    |    |    |      | .23 |     |     |     |     |     |    |    |    | .32  | .51  | .11 | .21 |     |    |    |     | .02  | .15  |       | 2.74 |
| Somerset          | Youghiogheny   |              |      |      |     |     |     |     |     |    |    |    |      |     |     |     |     |     |     |    |    |    |      |      |     |     |     |    |    |     |      |      |       |      |
| Springdale\|\|\| | Allegheny      |              | 1.30 | 2.08 | .10 |     |     | T.  | T.  |    |    |    | T.   | .13 |     |     | .05 | .04 |     |    |    |    | .29  | .49  | .01 | .10 |     |    |    |     | .04  | .08  | .25   | 4.96 |
| Uniontown         | Monongahela    | .02          | 2.83 | .71  | .38 |     |     | T.  |     |    |    |    | .22  | .03 |     |     | .33 |     |     |    |    |    | T.   | .58  | .01 | T.  |     |    |    |     | .02  | .11  | T.    | 5.24 |
| Unity Reservoir†† | Youghiogheny   |              | 2.50 | .55  | .18 |     |     | T.  |     |    |    |    |      | .15 | .14 |     | T.  |     |     |    |    |    |      | .08  | .06 | .03 |     |    |    |     | .06  | .10  | .07   | 3.92 |
| Vandergrift†      | Conemaugh      | .05          | 3.66 | .04  | .12 |     |     |     |     |    |    |    | .16  |     |     |     | .06 |     |     |    |    |    | .91  | .01  | .09 | .01 |     |    |    |     | .03  | .02  | 5.16  |      |
| Warren            | Allegheny      | .06          | 1.50 | 1.15 |     |     |     | .03 |     |    |    |    | .06  | .05 | .04 |     |     |     |     |    |    |    | 1.50 | .13  | .08 | .26 |     |    |    |     | .10  | .20  | 5.16  |      |
| Westford\|\|\| | Beaver         |              | 1.15 |      | .09 |     |     | .02 |     |    |    |    | .29  |     |     |     |     |     |     |    |    |    | 1.00 | .21  | .40 |     |     |    |    |     | .02  | .09  | 3.27  |      |
| West Newton\|\|\| | Youghiogheny   |              | .90  | 1.27 | .27 |     |     |     |     |    |    |    |      | .10 |     |     |     | .06 |     |    |    |    | .22  | .54  |     | .06 |     |    |    |     | .16  | .15  | 3.73  |      |
| Zelienople\|\|\| | Ohio           |              |      | *    |     |     |     |     |     |    |    |    | 1.60 |     |     |     |     |     |     |    |    |    |      |      |     |     |     |    |    |     | 1.89 | 1.77 | 7.65  |      |
| Lake Drainage.    |                |              |      |      |     |     |     |     |     |    |    |    |      |     |     |     |     |     |     |    |    |    |      |      |     |     |     |    |    |     |      |      |       |      |
| Erie***           | Lake Erie      |              | .78  |      | T.  |     |     | .10 |     | T. |    | T. | .12  | T.  | .02 |     |     |     |     |    |    |    | T.   | .46  | .05 | .06 |     |    |    |     | .02  | .03  | .01   | 1.65 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

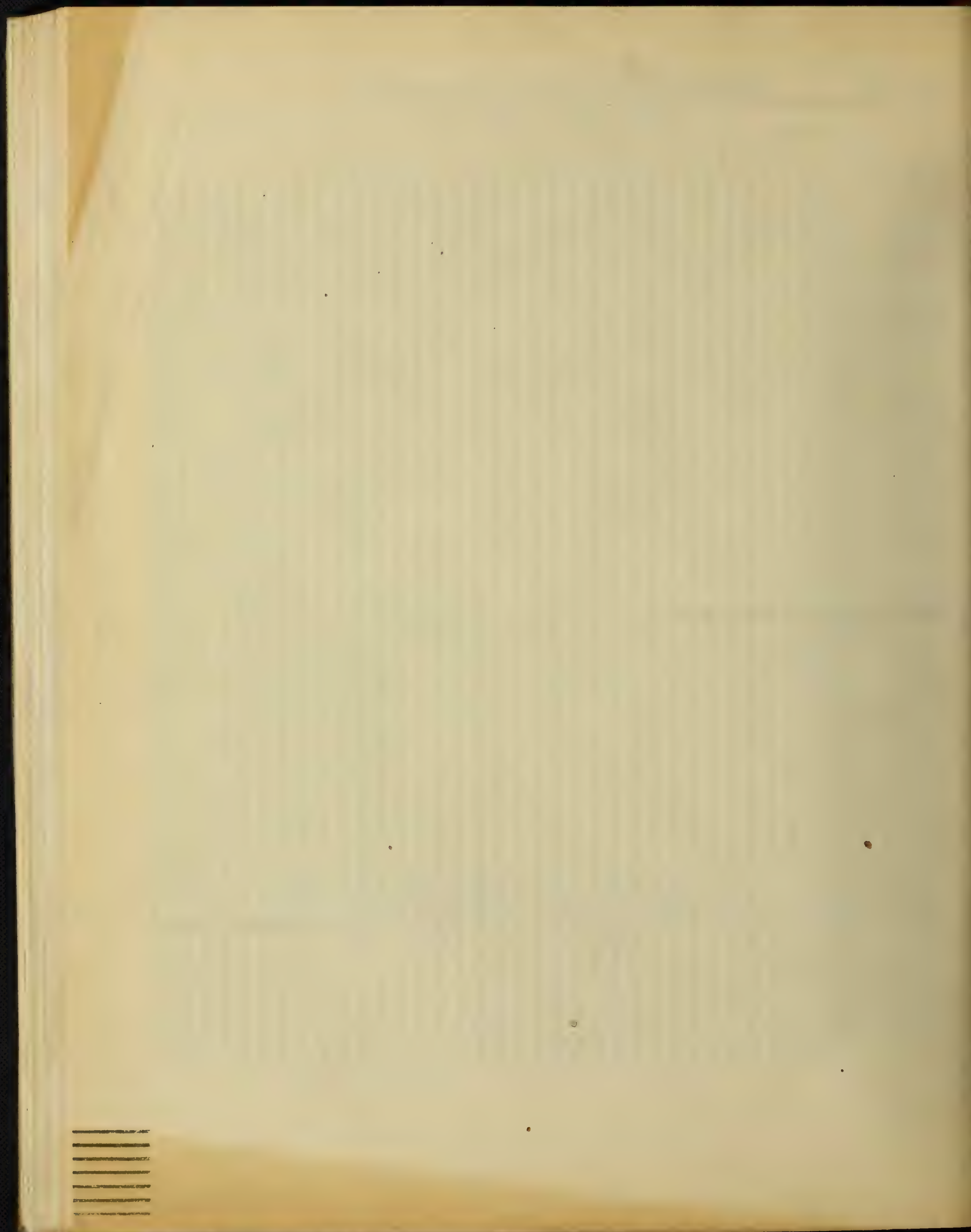
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville  
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.



## Daily Temperatures for October, 1929

| Stations          |              | 1  | 2  | 3  | 4  | 5  | 6    | 7  | 8  | 9  | 10 | 11 | 12   | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24  | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean              |      |
|-------------------|--------------|----|----|----|----|----|------|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|-------------------|-------------------|------|
| Allentown.....    | Maximum..... | 59 | 71 | 56 | 56 | 59 | 70   | 73 | 59 | 58 | 55 | 60 | 66   | 72 | 63 | 63 | 66 | 51 | 54 | 70 | 68 | 74 | 69 | 65 | 58  | 58 | 65 | 72 | 55 | 45 | 48 | 55                | 61.7              |      |
|                   | Minimum..... | 51 | 47 | 47 | 41 | 37 | 36   | 39 | 41 | 32 | 30 | 30 | 31   | 45 | 43 | 42 | 41 | 43 | 34 | 34 | 32 | 40 | 52 | 52 | 40  | 40 | 39 | 42 | 41 | 34 | 36 | 37                | 39.7              |      |
| Altoona.....      | Maximum..... | 73 | 68 | 63 | 58 | 57 | 72   | 67 | 63 | 59 | 53 | 54 | 66   | 66 | 58 | 60 | 68 | 61 | 57 | 69 | 77 | 74 | 66 | 62 | 60  | 48 | 48 | 62 | 68 | 59 | 46 | 42                | 52                | 61.1 |
|                   | Minimum..... | 58 | 58 | 55 | 51 | 32 | 36   | 50 | 35 | 30 | 32 | 32 | 31   | 33 | 35 | 37 | 35 | 32 | 31 | 36 | 33 | 46 | 58 | 44 | 42  | 35 | 41 | 50 | 32 | 30 | 36 | 42                | 39.6              |      |
| Beaver Dam.....   | Maximum..... | 60 | 57 | 60 | 60 | 64 | 68   | 68 | 65 | 56 | 59 | 59 | 72   | 72 | 59 | 60 | 66 | 62 | 60 | 85 | 72 | 78 | 63 | 60 | 48  | 54 | 66 | 66 | 64 | 50 | 52 | 70                | 63.0              |      |
|                   | Minimum..... | 48 | 48 | 45 | 41 | 33 | 32   | 52 | 38 | 35 | 38 | 45 | 43   | 49 | 43 | 35 | 38 | 37 | 29 | 34 | 37 | 52 | 58 | 44 | 34  | 39 | 42 | 44 | 33 | 35 | 43 | 51                | 41.1              |      |
| Bellefonte.....   | Maximum..... | 56 | 50 | 59 | 53 | 60 | 70   | 70 | 51 | 54 | 58 | 52 | 67   | 64 | 61 | 57 | 64 | 50 | 59 | 62 | 64 | 49 | 59 | 73 | 74  | 67 | 67 | 61 | 45 | 47 | 66 | 68                | 51.9 <sup>a</sup> |      |
|                   | Minimum..... | 47 | 46 | 40 | 34 | 31 | 30   | 47 | 33 | 29 | 26 | 29 | 45   | 49 | 42 | 32 | 30 | 33 | 30 | 30 | 32 | 52 | 55 | 40 | 36  | 38 | 41 | 41 | 32 | 31 | 36 | 42                | 37.4              |      |
| Brookville.....   | Maximum..... | 60 | 45 | 61 | 54 | 63 | 71   | 69 | 54 | 57 | 61 | 57 | 59   | 50 | 59 | 62 | 64 | 49 | 59 | 73 | 74 | 70 | 66 | 51 | 40  | 51 | 65 | 65 | 49 | 45 | 47 | ....              | 59.1 <sup>a</sup> |      |
|                   | Minimum..... | 43 | 41 | 36 | 28 | 26 | 25   | 31 | 27 | 26 | 21 | 34 | 39   | 43 | 30 | 28 | 29 | 22 | 21 | 25 | 27 | 20 | 40 | 45 | 38  | 34 | 38 | 35 | 29 | 26 | 31 | 38                | 31.9 <sup>a</sup> |      |
| Butler.....       | Maximum..... | 59 | 52 | 62 | 60 | 61 | 68   | 67 | 66 | 59 | 60 | 60 | 76   | 70 | 67 | 61 | 66 | 66 | 65 | 70 | 75 | 69 | 68 | 62 | 47  | 54 | 65 | 63 | 61 | 49 | 52 | 74                | 63.2              |      |
|                   | Minimum..... | 45 | 46 | 42 | 39 | 30 | 31   | 35 | 34 | 33 | 31 | 44 | 42   | 38 | 33 | 29 | 34 | 38 | 27 | 28 | 32 | 45 | 60 | 42 | 33  | 34 | 29 | 50 | 34 | 32 | 32 | 48                | 37.1              |      |
| Carlisle.....     | Maximum..... | 57 | 55 | 64 | 57 | 63 | 73   | 71 | 69 | 61 | 57 | 64 | 68   | 73 | 72 | 60 | 74 | 64 | 64 | 73 | 74 | 72 | 68 | 67 | 52  | 52 | 72 | 75 | 70 | 48 | 48 | 54                | 64.2              |      |
|                   | Minimum..... | 50 | 48 | 46 | 43 | 33 | 33   | 48 | 49 | 32 | 29 | 26 | 43   | 47 | 45 | 44 | 46 | 46 | 35 | 31 | 32 | 48 | 60 | 42 | -35 | 40 | 32 | 34 | 35 | 35 | 38 | 40                | 40.0              |      |
| Catawissa.....    | Maximum..... | 61 | 53 | 56 | 59 | 62 | 70   | 69 | 55 | 59 | 56 | 60 | 68   | 71 | 65 | 63 | 64 | 48 | 53 | 70 | 73 | 72 | 69 | 68 | 47  | 52 | 64 | 73 | 56 | 45 | 53 | 62                | 61.2              |      |
|                   | Minimum..... | 49 | 45 | 45 | 33 | 31 | 31   | 49 | 35 | 28 | 25 | 24 | 39   | 47 | 36 | 42 | 32 | 34 | 27 | 28 | 32 | 40 | 56 | 46 | 33  | 37 | 36 | 40 | 34 | 30 | 35 | 42                | 36.8              |      |
| Chambersburg..... | Maximum..... | 57 | 52 | 66 | 58 | 61 | 69   | 71 | 60 | 59 | 57 | 61 | 66   | 73 | 62 | 60 | 72 | 66 | 66 | 69 | 76 | 70 | 69 | 67 | 53  | 48 | 70 | 69 | 49 | 48 | 43 | 54                | 62.6              |      |
|                   | Minimum..... | 50 | 48 | 44 | 42 | 33 | 36   | 46 | 36 | 32 | 35 | 31 | 43   | 48 | 41 | 44 | 31 | 42 | 32 | 32 | 35 | 47 | 61 | 43 | 39  | 41 | 40 | 41 | 34 | 36 | 37 | 42                | 40.1              |      |
| Claysville.....   | Maximum..... | 58 | 54 | 63 | 58 | 71 | 73   | 71 | 73 | 71 | 64 | 65 | 63   | 64 | 75 | 68 | 64 | 64 | 73 | 57 | 64 | 79 | 79 | 71 | 66  | 53 | 46 | 55 | 66 | 68 | 60 | 69                | 76                | 64.4 |
|                   | Minimum..... | 48 | 46 | 42 | 38 | 33 | 38   | 56 | 32 | 32 | 38 | 45 | 46   | 50 | 38 | 30 | 35 | 34 | 26 | 32 | 41 | 53 | 51 | 41 | 33  | 36 | 39 | 48 | 28 | 38 | 44 | 57                | 40.3              |      |
| Clearfield.....   | Maximum..... | 59 | 55 | 65 | 55 | 68 | 77   | 75 | 62 | 63 | 65 | 63 | 75   | 68 | 60 | 68 | 66 | 60 | 74 | 82 | 75 | 80 | 66 | 65 | 55  | 51 | 67 | 69 | 56 | 47 | 45 | 57                | 64.3              |      |
|                   | Minimum..... | 47 | 45 | 43 | 35 | 29 | 29   | 48 | 31 | 26 | 28 | 28 | 45   | 40 | 42 | 34 | 30 | 37 | 26 | 30 | 31 | 41 | 57 | 44 | 36  | 34 | 38 | 45 | 28 | 30 | 35 | 42                | 36.6              |      |
| Coatesville.....  | Maximum..... | 62 | 74 | 62 | 57 | 61 | 69   | 79 | 66 | 55 | 56 | 63 | 67   | 72 | 63 | 61 | 69 | 65 | 56 | 63 | 74 | 76 | 68 | 69 | 58  | 52 | 66 | 73 | 64 | 46 | 48 | 59                | 63.6              |      |
|                   | Minimum..... | 42 | 50 | 45 | 37 | 30 | 32   | 45 | 36 | 26 | 24 | 23 | 38   | 46 | 42 | 45 | 42 | 38 | 28 | 29 | 43 | 41 | 60 | 44 | 35  | 36 | 36 | 33 | 36 | 35 | 37 | 44                | 38.0              |      |
| Corry.....        | Maximum..... | 61 | 54 | 59 | 52 | 63 | 70   | 67 | 52 | 54 | 61 | 60 | 74   | 66 | 56 | 63 | 62 | 56 | 57 | 72 | 76 | 73 | 64 | 65 | 43  | 52 | 62 | 62 | 49 | 47 | 55 | 62                | 60.3              |      |
|                   | Minimum..... | 37 | 44 | 42 | 32 | 28 | 32   | 51 | 33 | 31 | 24 | 38 | 48   | 48 | 46 | 27 | 33 | 37 | 25 | 30 | 36 | 49 | 59 | 42 | 32  | 32 | 41 | 41 | 34 | 29 | 38 | 44                | 37.5              |      |
| Emporium.....     | Maximum..... | 58 | 55 | 58 | 52 | 58 | 70   | 68 | 48 | 54 | 56 | 55 | 71   | 65 | 56 | 58 | 50 | 50 | 55 | 69 | 74 | 68 | 67 | 57 | 45  | 48 | 63 | 65 | 48 | 47 | 48 | 55                | 57.8              |      |
|                   | Minimum..... | 43 | 48 | 42 | 32 | 30 | 28   | 45 | 33 | 28 | 22 | 28 | 43   | 49 | 43 | 35 | 33 | 32 | 22 | 26 | 28 | 42 | 56 | 40 | 36  | 36 | 36 | 42 | 34 | 32 | 37 | 45                | 36.3              |      |
| Erie.....         | Maximum..... | 57 | 52 | 58 | 51 | 60 | 70   | 65 | 51 | 51 | 53 | 61 | 74   | 57 | 56 | 58 | 62 | 51 | 53 | 69 | 76 | 73 | 70 | 51 | 43  | 53 | 57 | 58 | 46 | 49 | 52 | 67                | 58.2              |      |
|                   | Minimum..... | 46 | 45 | 47 | 45 | 40 | 47   | 51 | 39 | 39 | 34 | 46 | 52   | 53 | 46 | 41 | 46 | 41 | 41 | 46 | 53 | 58 | 51 | 37 | 35  | 43 | 45 | 46 | 33 | 34 | 43 | 51                | 44.3              |      |
| Franklin.....     | Maximum..... | 59 | 49 | 62 | 54 | 66 | 69   | 68 | 55 | 58 | 65 | 56 | 74   | 61 | 56 | 68 | 65 | 55 | 61 | 75 | 76 | 74 | 65 | 50 | 45  | 53 | 66 | 65 | 49 | 46 | 50 | 64                | 60.6              |      |
|                   | Minimum..... | 39 | 41 | 43 | 35 | 31 | 32   | 37 | 36 | 31 | 26 | 27 | 44   | 47 | 39 | 32 | 32 | 39 | 26 | 27 | 30 | 35 | 48 | 43 | 35  | 34 | 39 | 42 | 30 | 32 | 35 | 41                | 35.7              |      |
| Freeland.....     | Maximum..... | 67 | 58 | 60 | 50 | 57 | 67   | 66 | 59 | 59 | 52 | 62 | 63   | 65 | 59 | 56 | 64 | 58 | 50 | 70 | 77 | 67 | 64 | 64 | 52  | 46 | 57 | 68 | 57 | 44 | 41 | 52                | 58.8              |      |
|                   | Minimum..... | 46 | 42 | 43 | 36 | 34 | 42   | 54 | 39 | 31 | 27 | 34 | 42   | 50 | 43 | 42 | 37 | 33 | 27 | 37 | 46 | 49 | 57 | 46 | 35  | 34 | 37 | 49 | 34 | 26 | 33 | 40                | 39.5              |      |
| Gettysburg.....   | Maximum..... | 58 | 56 | 63 | 60 | 63 | 70   | 75 | 66 | 58 | 56 | 62 | 67   | 74 | 66 | 60 | 70 | 66 | 60 | 69 | 72 | 71 | 68 | 64 | 57  | 52 | 70 | 74 | 69 | 49 | 45 | 55                | 63.4              |      |
|                   | Minimum..... | 50 | 48 | 45 | 44 | 34 | 38   | 50 | 43 | 35 | 36 | 31 | 44   | 53 | 45 | 46 | 37 | 43 | 31 | 36 | 37 | 48 | 61 | 46 | 41  | 39 | 42 | 48 | 38 | 37 | 38 | 44                | 42.2              |      |
| Greensburg.....   | Maximum..... | 52 | 58 | 64 | 55 | 67 | 70   | 67 | 58 | 58 | 64 | 59 | 74   | 68 | 59 | 60 | 68 | 61 | 59 | 74 | 76 | 68 | 68 | 55 | 48  | 51 | 65 | 67 | 58 | 46 | 63 | 75                | 62.3              |      |
|                   | Minimum..... | 49 | 46 | 44 | 39 | 34 | 38   | 57 | 36 | 32 | 35 | 42 | 45   | 52 | 43 | 47 | 52 | 38 | 28 | 33 | 40 | 52 | 54 | 44 | 35  | 36 | 37 | 47 | 31 | 36 | 42 | 54                | 41.9              |      |
| Grove City.....   | Maximum..... | 62 | 57 | 62 | 53 | 62 | 67   | 67 | 58 | 57 | 55 | 74 | 68   | 62 | 62 | 64 | 60 | 59 | 73 | 75 | 70 | 66 | 62 | 59 | 52  | 64 | 64 | 60 | 45 | 48 | 65 | 61.6              |                   |      |
|                   | Minimum..... | 42 | 43 | 43 | 38 | 31 | 34   | 55 | 35 | 32 | 32 | 43 | 48   | 48 | 34 | 29 | 33 | 38 | 26 | 31 | 36 | 59 | 53 | 40 | 33  | 33 | 37 | 39 | 31 | 34 | 41 | 48                | 38.8              |      |
| Hamburg.....      | Maximum..... | 58 | 65 | 67 | 58 | 57 | 66   | 70 | 67 | 55 | 66 | 60 | 64   | 70 | 64 | 61 | 63 | 64 | 55 | 70 | 74 | 76 | 67 | 67 | 65  | 51 | 68 | 70 | 79 | 68 | 66 | 60                | 64.7              |      |
|                   | Minimum..... | 51 | 47 | 46 | 37 | 30 | 32   | 40 | 37 | 27 | 26 | 24 | 36   | 38 | 39 | 47 | 40 | 41 | 34 | 31 | 32 | 39 | 60 | 40 | 33  | 39 | 34 | 35 | 40 | 34 | 44 | 45                | 38.0              |      |
| Harrisburg.....   | Maximum..... | 56 | 57 | 62 | 56 | 60 | 69   | 70 | 58 | 56 | 55 | 59 | 66   | 71 | 62 | 58 | 66 | 54 | 60 | 69 | 72 | 71 | 68 | 63 | 52  | 50 | 69 | 73 | 54 | 45 | 46 | 55                | 60.7              |      |
|                   | Minimum..... | 51 | 49 | 48 | 46 | 40 | 41   | 52 | 45 | 38 | 36 | 34 | 46   | 55 | 48 | 43 | 41 | 47 | 41 | 43 | 48 | 53 | 56 | 51 | 42  | 42 | 42 | 48 | 39 | 37 | 38 | 45                | 44.1              |      |
| Hawley.....       | Maximum..... | 58 | 55 | 59 | 49 | 57 | 68   | 67 | 61 | 52 | 53 | 58 | 63   | 65 | 59 | 60 | 66 | 59 | 46 | 67 | 76 | 70 | 65 | 65 | 58  | 48 | 57 | 70 | 64 | 47 | 43 | 51                | 59.2              |      |
|                   | Minimum..... | 48 | 45 | 46 | 37 | 30 | 27   | 48 | 37 | 28 | 20 | 18 | 30   | 47 | 36 | 41 | 32 | 34 | 29 | 25 | 30 | 36 | 59 | 53 | 31  | 37 | 39 | 42 | 35 | 28 | 33 | 40                | 36.2              |      |
| Huntingdon.....   | Maximum..... | 57 | 54 | 64 | 58 | 63 | .... | 73 | 65 | 58 | 56 | 58 | 69   | 69 | 67 | 59 | 70 | 54 | 61 | 72 | 77 | 70 | 70 | 65 | 57  | 50 | 60 | 72 | 64 | 49 | 43 | 54                | 61.8 <sup>a</sup> |      |
|                   | Minimum..... | 50 | 48 | 44 | 42 | 29 | .... | 33 | 35 | 29 | 27 | 30 | .... | 50 | 45 | 40 | 29 | 44 | 30 | 29 | 42 | 61 | 50 | 40 | 40  | 48 | 51 | 50 | 35 | 37 | 41 | 39.1 <sup>b</sup> |                   |      |
| Hyndman.....      | Maximum..... | 59 | 52 | 62 | 59 | 64 | 76   | 71 | 65 | 63 | 60 | 63 | 75   | 74 | 64 | 60 | 75 | 63 | 62 | 76 | 79 | 73 | 72 | 65 | 56  | 53 | 70 | 75 | 65 | 53 | 47 | 59                | 64.8              |      |
|                   | Minimum..... | 48 | 47 | 43 | 42 | 31 | 33   | 43 | 33 | 29 | 35 | 32 | 43   | 57 | 39 | 33 | 31 | 38 | 28 | 31 | 33 | 42 | 62 | 48 | 39  | 39 | 39 | 30 | 39 | 30 | 35 | 47                |                   |      |







# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. NOVEMBER, 1929. No. 11

## GENERAL SUMMARY.

November temperatures were mostly above the normal up to the 20th, after which there were two cold periods. The last cold period assumed the proportions of a cold wave, and established a new November minimum for the State and for a large number of stations. A temperature 10° below zero was recorded at Elk Lick on the 30th. Heavy snow fell at several stations in the western portion of the State with a maximum of 13.8 inches at Erie, while Elk Lick, in Somerset County, reported 12.0 inches. The average precipitation for the State was above the November normal, due quite largely to heavy rains in the western part from the 16th to the 18th inclusive. These rains raised the Monongahela and Youghiogheny rivers nearly to flood stages, and there was a near flood stage in the Ohio river at Pittsburgh. In the remainder of the State heavy rains were reported locally, but not generally. Winter grains continued to grow during the first three weeks, and became well rooted and in good condition for the coming winter. Pastures were fair to good during the fore part of the month, especially in the southeastern counties. The month as a whole was favorable for outdoor work and building operations proceeded with few interruptions. Field work made good progress. Corn husking was nearly finished and a large portion of the fodder was hauled in at the close of the month. Potato digging was finished during the first week. The month was comparatively free from severe or damaging local storms, and no special reports of damage by either wind or rains were received.

## TEMPERATURE.

The mean temperature for the State, as determined from reports of 88 stations, was 41.1°, which is 0.1° above the normal for the month. The highest monthly mean was 47.8°, at Philadelphia-Point Breeze, and the lowest 35.5° at Brookville. The highest temperature recorded during the month was 81°, at Uniontown on the 1st and at Holtwood and Narberth on the 2d. The lowest was -10°, at Elk Lick on the 30th. The greatest daily range of temperature was 40°, at Brookville on the 12th and at Corry on the 23d.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations taken at 134 stations, was 3.39 inches; an excess of 0.58 inch as compared with the November normal. The greatest monthly total was 5.07 inches at Pennline, while the least, 1.89 inches, fell at Weikert. The greatest amount recorded in any 24 consecutive hours was 2.33 inches, at Mount Pocono on the 17-18th. Snowfall for the month averaged 1.9 inches, which is 1.2 inches more than the normal for November. The greatest monthly snowfall was 13.8 inches at Erie, where 9.5 inches fell during the storm of the 21st.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 32.2                    | 294.9                    | 11                     | 75               | 76       | 77      | 10.062                   | 14.0                        | 34        | se.       |
| Harrisburg.....   | 136.3                   | 299.4                    | 46                     | 78               | 60       | 64      | 4.187                    | 5.8                         | 23        | sw.       |
| Philadelphia..... | 124.6                   | 299.4                    | 42                     | 75               | 63       | 70      | 8.273                    | 11.5                        | 36        | w.        |
| Pittsburgh.....   | 109.9                   | 297.0                    | 37                     | 82               | 65       | 83      | 6.273                    | 8.7                         | 34        | w.        |
| Reading.....      | 121.6                   | 299.4                    | 41                     | 76               | 59       | 64      | 3.979                    | 5.5                         | 21        | nw.       |
| Scranton.....     | 95.8                    | 297.0                    | 32                     | 81               | 63       | 69      | 4.451                    | 6.2                         | 31        | w.        |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR NOVEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 42.2        | 79      | 4      | 3.37          | 6.22     | 1.99  | 9           | 7             | 14     | 11                     |
| 1889..... | 41.8        | 73      | 10     | 6.72          | 10.16    | 2.72  | 5           | 8             | 17     | 15                     |
| 1890..... | 41.8        | 78      | 10     | 1.49          | 4.29     | 0.78  | 9           | 10            | 11     | 8                      |
| 1891..... | 39.7        | 76      | 6      | 2.65          | 5.70     | 1.09  | 9           | 8             | 13     | 9                      |
| 1892..... | 39.0        | 80      | 10     | 4.34          | 7.08     | 1.61  | 6           | 8             | 16     | 12                     |
| 1893..... | 39.2        | 68      | 4      | 2.93          | 5.69     | 1.16  | 8           | 11            | 11     | 8                      |
| 1894..... | 38.2        | 74      | 6      | 2.50          | 3.64     | 0.74  | 10          | 9             | 12     | 9                      |
| 1895..... | 42.9        | 78      | 6      | 2.48          | 5.73     | 0.97  | 10          | 8             | 11     | 10                     |
| 1896..... | 46.0        | 83      | 12     | 3.55          | 8.05     | 0.82  | 8           | 9             | 13     | 10                     |
| 1897..... | 41.6        | 76      | 2      | 5.28          | 7.04     | 2.37  | 6           | 8             | 16     | 14                     |
| 1898..... | 40.0        | 73      | 2      | 4.03          | 7.34     | 1.44  | 8           | 9             | 13     | 11                     |
| 1899..... | 41.5        | 72      | 8      | 2.66          | 4.86     | 0.61  | 10          | 8             | 12     | 7                      |
| 1900..... | 43.5        | 79      | 7      | 4.10          | 6.92     | 1.67  | 6           | 9             | 15     | 12                     |
| 1901..... | 36.0        | 76      | 7      | 2.56          | 5.00     | 1.23  | 7           | 8             | 15     | 8                      |
| 1902..... | 47.3        | 78      | 9      | 1.53          | 3.02     | 0.50  | 10          | 8             | 12     | 8                      |
| 1903..... | 36.9        | 78      | 0      | 2.18          | 5.33     | 0.88  | 11          | 8             | 11     | 7                      |
| 1904..... | 38.8        | 79      | 4      | 1.14          | 3.31     | 0.14  | 10          | 9             | 11     | 6                      |
| 1905..... | 39.1        | 68      | 5      | 2.47          | 3.72     | 1.08  | 11          | 8             | 11     | 9                      |
| 1906..... | 41.5        | 80      | 9      | 1.48          | 3.08     | 0.54  | 12          | 6             | 12     | 8                      |
| 1907..... | 39.8        | 70      | 4      | 3.60          | 7.52     | 1.05  | 13          | 8             | 9      | 10                     |
| 1908..... | 41.2        | 75      | 2      | 0.90          | 1.97     | 0.20  | 12          | 8             | 10     | 5                      |
| 1909..... | 46.4        | 80      | 15     | 1.40          | 3.97     | 0.26  | 12          | 8             | 19     | 7                      |
| 1910..... | 36.8        | 68      | 9      | 2.45          | 5.63     | 0.33  | 4           | 7             | 10     | 11                     |
| 1911..... | 37.8        | 77      | 7      | 2.84          | 5.68     | 0.99  | 7           | 7             | 16     | 10                     |
| 1912..... | 43.0        | 81      | 7      | 2.17          | 4.83     | 0.61  | 10          | 8             | 12     | 7                      |
| 1913..... | 43.9        | 79      | 10     | 3.05          | 6.34     | 1.43  | 10          | 5             | 15     | 11                     |
| 1914..... | 40.6        | 81      | 2      | 1.76          | 4.27     | 0.57  | 12          | 9             | 9      | 6                      |
| 1915..... | 42.1        | 79      | 13     | 2.28          | 5.32     | 0.22  | 10          | 9             | 11     | 10                     |
| 1916..... | 41.3        | 79      | 4      | 2.27          | 7.97     | 0.88  | 13          | 6             | 11     | 9                      |
| 1917..... | 37.6        | 69      | 5      | 0.63          | 1.37     | 0.12  | 14          | 7             | 9      | 5                      |
| 1918..... | 42.1        | 76      | 11     | 2.03          | 4.07     | 0.44  | 12          | 6             | 12     | 7                      |
| 1919..... | 41.2        | 76      | 11     | 5.35          | 8.45     | 1.84  | 11          | 7             | 12     | 12                     |
| 1920..... | 40.3        | 75      | 5      | 3.54          | 6.42     | 1.85  | 7           | 7             | 16     | 11                     |
| 1921..... | 42.3        | 80      | 3      | 5.75          | 9.14     | 3.20  | 5           | 7             | 18     | 16                     |
| 1922..... | 42.9        | 73      | 12     | 1.21          | 4.52     | 0.23  | 10          | 7             | 13     | 9                      |
| 1923..... | 40.7        | 70      | 10     | 2.83          | 6.84     | 1.55  | 12          | 5             | 13     | 10                     |
| 1924..... | 40.7        | 78      | 9      | 1.54          | 3.29     | 0.56  | 12          | 8             | 10     | 7                      |
| 1925..... | 39.5        | 71      | 4      | 3.56          | 6.07     | 1.50  | 11          | 7             | 12     | 10                     |
| 1926..... | 40.4        | 79      | 1      | 4.49          | 9.84     | 2.00  | 9           | 7             | 14     | 10                     |
| 1927..... | 46.2        | 85      | 10     | 4.95          | 11.36    | 2.21  | 7           | 7             | 16     | 14                     |
| 1928..... | 43.4        | 81      | 4      | 2.32          | 5.71     | 1.05  | 7           | 8             | 15     | 12                     |
| 1929..... | 41.1        | 81      | 10     | 3.39          | 5.07     | 1.89  | 8           | 8             | 14     | 12                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |      | Highest stage |      | Lowest stage |    | Flood stage |  |
|-------------------|-------------------|------------|------|---------------|------|--------------|----|-------------|--|
|                   |                   |            |      | Date          |      | Date         |    |             |  |
| Port Jervis.....  | Delaware.....     | 3.4        | 6.4  | 19            | 2.4  | 3            | 18 |             |  |
| Phillipsburg..... | Delaware.....     | 3.1        | 7.8  | 20            | 0.2  | 1            | 22 |             |  |
| Mauch Chunk.....  | Lehigh.....       | -1.7       | 1.3  | 23            | -2.7 | 14           | 12 |             |  |
| Wilkes-Barre..... | Susquehanna.....  | 4.8        | 12.1 | 20            | 2.7  | 1            | 20 |             |  |
| Williamsport..... | Susquehanna.....  | 3.7        | 9.7  | 19            | 1.7  | 30           | 20 |             |  |
| Harrisburg.....   | Susquehanna.....  | 5.0        | 8.7  | 20            | 4.0  | 13           | 17 |             |  |
| Greensboro.....   | Monongahela.....  | 14.3       | 30.2 | 18            | 11.3 | 11           | 30 |             |  |
| West Newton.....  | Youghiogheny..... | 2.5        | 8.4  | 19            | 1.2  | 13           | 20 |             |  |
| Lock No. 4.....   | Monongahela.....  | 16.6       | 30.0 | 19            | 13.4 | 11           | 31 |             |  |
| Pittsburgh.....   | Ohio.....         | 13.3       | 23.7 | 19            | 10.8 | 12           | 25 |             |  |
| Beaver Dam.....   | Ohio.....         | 11.1       | 25.7 | 19            | 7.7  | 12           | 80 |             |  |



## Climatological Data for November, 1929

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                       |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Allentown          | Lehigh       | 254             | 17                      | 42.6                         |                           | 75      | 2    | 10     | 30   | 32                       | 3.19  | +0.79                     | 1.30                 | T.                        | 13                           | 18    | 7                            | 5         | ne.        | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 42                      | 39.2                         | -1.6                      | 70      | 1    | 0      | 30   | 26                       | 3.66  | +1.75                     | 0.75                 | 3.8                       | 15                           | 11    | 8                            | 11        | w.         | F. E. Rooney.                |
| Arendtsville       | Adams        | 700             | 5                       | 42.1                         |                           | 76      | 1†   | 6      | 30   | 30                       | 2.75  |                           | 1.57                 | 0.3                       | 10                           | 16    | 7                            | 7         | nw.        | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 24                      | 33.0                         |                           | 70      | 1    | 2      | 30   | 29                       | 2.66  | +0.50                     | 1.14                 | 0.9                       | 10                           | 4     | 9                            | 17        | w.         | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 45                      | 45.6                         | +1.6                      | 74      | 1    | 10     | 30   | 25                       | 3.09  | -0.02                     | 1.32                 | 0.8                       | 11                           | 8     | 6                            | 16        | w.         | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 62                      | 43.4                         | +2.7                      | 75      | 1    | 7      | 30   | 35                       | 3.13  | -0.06                     | 2.15                 | T.                        | 9                            | 16    | 5                            | 9         | nw.        | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 32                      | 41.5                         | -0.9                      | 75      | 1†   | 5      | 30   | 33                       | 2.95  | +0.24                     | 1.47                 | T.                        | 13                           | 18    | 3                            | 9         | .....      | H. H. Yetter.                |
| Center Hall        | Center       | 1,272           | 33                      | 36.9                         | -3.0                      | 63      | 1    | 0      | 30   | 36                       | 4.22  | +2.20                     | 1.26                 | 2.2                       | 12                           | 15    | 7                            | 8         | .....      | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 29                      | 43.1                         | +1.7                      | 75      | 1    | 7      | 30   | 32                       | 3.22  | +0.57                     | 1.21                 | 0.6                       | 11                           | 5     | 12                           | 13        | ne.        | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 19                      | 38.3                         | -2.4                      | 75      | 2    | 0      | 30   | 39                       | 3.45  | +0.61                     | 0.72                 | 2.0                       | 12                           | 7     | 12                           | 11        | w.         | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 41                      | 43.4                         | +0.5                      | 77      | 2    | 9      | 30   | 32                       | 3.22  | +0.03                     | 1.36                 | 0                         | 9                            | 5     | 11                           | 14        | nw.        | Prof. W. T. Gordon.          |
| Colebrook          | Lebanon      | 560             | 19                      | 41.6                         | +0.6                      | 76      | 2    | 6      | 30   | 30                       | 2.93  | +0.45                     | 0.86                 | 0.4                       | 11                           | 9     | 2                            | 19        | w.         | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 41                      | 37.6                         | -1.6                      | 70      | 1    | 2      | 30   | 30                       | 3.48  | +0.77                     | 0.52                 | 2.0                       | 14                           | 4     | 12                           | 14        | w.         | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 28                      | 44.4                         | +2.0                      | 78      | 2    | 10     | 30   | 28                       | 3.19  | +0.80                     | 1.31                 | T.                        | 10                           | 12    | 4                            | 14        | w.         | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 14                      | 39.4                         |                           | 70      | 2    | 2      | 30   | 28                       | 3.84  |                           | 1.26                 | 4.6                       | 16                           | 4     | 10                           | 16        | nw.        | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 22                      | 45.2                         | +2.6                      | 80†     | 2    | 11†    | 30   | 30†                      | 2.52  | -0.19                     | 0.80                 | T.                        | 12                           | 14    | 7                            | 9         | sw.        | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 55                      | 44.7                         | +3.4                      | 77      | 2    | 8      | 30   | 29                       | 3.03  | +0.36                     | 1.92                 | 0.2                       | 12                           | 8     | 9                            | 13        | w.         | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 25                      | 40.6                         | +1.6                      | 74      | 2    | 5      | 30   | 34                       | 3.20  | +0.41                     | 1.25                 | 5.0                       | 11                           | 7     | 10                           | 13        | w.         | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 5                       | 37.0                         |                           | 70      | 2    | 2      | 30   | 28                       | 3.95  | +1.12                     | 1.70                 | 2.0                       | 9                            | 9     | 8                            | 13        | w.         | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 36                      | 41.6                         | -0.6                      | 72      | 2    | 6      | 29   | 37                       | 3.26  | +0.40                     | 1.06                 | T.                        | 10                           | 13    | 13                           | 4         | w.         | State Sanatorium.            |
| Hanover            | York         | 600             | 25                      | 46.2                         | +2.0                      | 79      | 2    | 8      | 30   | 29                       | 3.50  | +1.57                     | 1.49                 | 0.7                       | 13                           | 14    | 6                            | 10        | s.         | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 59                      | 43.7                         | +0.9                      | 72      | 1    | 10     | 30   | 22                       | 2.82  | +0.56                     | 1.77                 | 0.2                       | 12                           | 7     | 19                           | 14        | w.         | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 10                      | 39.3                         |                           | 69      | 2    | 5      | 30   | 32                       | 3.09  |                           | 0.95                 | 0.4                       | 10                           | 6     | 11                           | 13        | w.         | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 14                      | 47.4                         |                           | 81      | 2    | 12     | 30   | 25                       | 3.12  | +1.14                     | 1.32                 | T.                        | 9                            | 8     | 11                           | 11        | .....      | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 41                      | 40.8                         | -0.7                      | 74      | 1    | 5      | 30   | 34†                      | 2.64  | +0.38                     | 0.78                 | 0.5                       | 11                           | 8     | 9                            | 13        | w.         | Prof. A. H. Conner.          |
| Hyndman            | Bedford      | 977             | 18                      | 42.6                         | +0.6                      | 78      | 1    | 3      | 30   | 37                       | 3.02  | +1.48                     | 0.64                 | 4.0                       | 12                           | 6     | 3                            | 21        | .....      | Horace A. Sheavly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | 37.0                         |                           | 67      | 1    | -3     | 30   | 38                       | 2.63  |                           | 0.64                 | 2.0                       | 10                           | 5     | 10                           | 15        | w.         | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 41                      | 43.7                         | +0.6                      | 80      | 2    | 7      | 30   | 37                       | 2.90  | +0.48                     | 1.49                 | T.                        | 8                            | 16    | 5                            | 9         | w.         | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 31                      | 38.4                         | -0.3                      | 66      | 2†   | 5      | 30   | 28                       | 3.83  | +1.69                     | 1.12                 | 2.0                       | 9                            | 6     | 9                            | 15        | sw.        | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 84                      | 42.8                         | +0.6                      | 76      | 2    | 10     | 30   | 30                       | 3.25  | +0.36                     | 1.30                 | 0.4                       | 13                           | 13    | 9                            | 8         | sw.        | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 54                      | 41.9                         | +2.8                      | 70      | 1    | 6      | 30   | 31                       | 3.10  | +0.59                     | 1.16                 | 0.4                       | 13                           | 5     | 10                           | 15        | w.         | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 39                      | 42.4                         | +0.5                      | 68      | 1†   | 5      | 30   | 29                       | 2.83  | +0.39                     | 0.82                 | T.                        | 12                           | 1     | 14                           | 15        | sw.        | Joseph Beaver.               |
| Lykens             | Dauphin      | 680             | 14                      | 42.8                         | +1.8                      | 78      | 2    | 5      | 30   | 36                       | 3.69  | +0.64                     | 1.78                 | 1.0                       | 11                           | 12    | 9                            | 9         | nw.        | Susquehanna Collieries Co.   |
| Mauch Chunk        | Carbon       | 600             | 38                      | 41.0                         | +0.4                      | 76      | 2    | 10     | 30   | 36                       | 3.59  | +0.26                     | 1.46                 | 1.7                       | 10                           | 11    | 10                           | 9         | s.         | R. K. Wintermute.            |
| Millintown         | Juniata      | 445             | 25                      | 41.4                         | +0.8                      | 68      | 1†   | 6      | 30   | 34                       | 2.86  | +1.02                     | 1.09                 | 0.2                       | 10                           | 7     | 2                            | 21        | w.         | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 26                      | 36.8                         | -0.1                      | 65      | 2†   | -3     | 30   | 30                       | 3.74  | +1.34                     | 1.30                 | 3.0                       | 7                            | 8     | 6                            | 16        | w.         | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 37.0                         | +1.2                      | 70      | 2    | 0      | 30   | 28                       | 4.16  | +1.44                     | 2.33                 | 3.0                       | 12                           | 9     | 5                            | 16        | nw.        | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 17                      | 38.8                         | -0.4                      | 65      | 1†   | -2     | 30   | 31                       | 3.65  | +1.23                     | 1.38                 | 0.5                       | 8                            | 10    | 6                            | 14        | n.         | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 10                      | 44.2                         |                           | 81      | 2    | 10     | 30   | 27                       | 3.20  |                           | 1.31                 | T.                        | 11                           | 8     | 14                           | 14        | nw.        | Charles Decker.              |
| Neshaminy Falls†   | Bucks        | 60              | 40                      | 44.0                         | +2.5                      | 79      | 2    | 10     | 30   | 32                       | 2.43  |                           | 0.70                 | 0                         | 10                           | 14    | 4                            | 12        | s.         | North Springfield Water Co.  |
| Palmerton          | Carbon       | 395             | 12                      | 41.2                         |                           | 76      | 2    | 8      | 30   | 29                       | 2.65  |                           | 1.16                 | 1.3                       | 10                           | 5     | 10                           | 15        | sw.        | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 58                      | 47.4                         | +1.7                      | 77      | 2    | 14     | 30   | 20                       | 3.11  | +0.41                     | 1.61                 | T.                        | 10                           | 6     | 9                            | 15        | sw.        | U. S. Weather Bureau.        |
| Philadelphia-Gtn.  | Philadelphia | 113             | 5                       | 46.7                         |                           | 78      | 2    | 13     | 30   | 21                       | 2.66  |                           | 0.80                 | T.                        | 10                           | 5     | 12                           | 13        | .....      | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 13                      | 46.4                         | +1.0                      | 74      | 2    | 12     | 30   | 23                       | 2.75  | +0.27                     | 1.07                 | T.                        | 12                           | 6     | 5                            | 19        | sw.        | Commandant, Navy Yard.       |
| Phila-Point Breeze | Philadelphia | 90              | 4                       | 47.8                         |                           | 80      | 2    | 14     | 30   | 21                       | 3.17  |                           | 1.91                 | T.                        | 7                            | 9     | 8                            | 13        | w.         | Atlantic Refining Co.        |
| Phoenixville       | Chester      | 100             | 18                      | 45.7                         | +3.1                      | 80      | 2    | 10     | 30   | 30                       | 3.75  | +1.03                     | 1.41                 | T.                        | 8                            | 16    | 10                           | 4         | w.         | North Springfield Water Co.  |
| Quakertown         | Bucks        | 496             | 44                      | 42.2                         | +1.2                      | 78      | 2    | 9      | 30   | 32                       | 3.09  | -0.07                     | 1.23                 | T.                        | 11                           | 6     | 14                           | 10        | w.         | John E. Benner.              |
| Reading            | Berks        | 325             | 59                      | 44.8                         | +2.3                      | 76      | 2    | 11     | 30   | 25                       | 2.95  | +0.22                     | 1.45                 | T.                        | 10                           | 8     | 8                            | 14        | w.         | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 34                      | 41.6                         | +1.1                      | 69      | 1    | 6      | 30   | 25                       | 2.62  | -0.15                     | 1.07                 | 0.3                       | 14                           | 2     | 14                           | 14        | sw.        | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 39                      | 41.9                         | +0.4                      | 71      | 1    | 7      | 30   | 30                       | 3.13  | +0.45                     | 1.20                 | 0.2                       | 13                           | 11    | 11                           | 8         | sw.        | Dr. George E. Fisher.        |
| Shawmont†          | Philadelphia | 51              | 33                      | 45.6                         |                           | 76      | 2    | 13     | 30   | 24                       | 2.86  | -0.02                     | 1.35                 | T.                        | 10                           | 4     | 12                           | 14        | w.         | W. S. Guiles.                |
| State College      | Center       | 1,217           | 44                      | 38.8                         | -0.9                      | 69      | 1    | 1      | 30   | 27                       | 2.65  | +0.35                     | 0.58                 | 2.5                       | 10                           | 9     | 11                           | 10        | w.         | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 13                      | 40.4                         | +0.1                      | 75      | 2    | 14     | 23†  | 34                       | 3.58  | +0.14                     | 1.75                 | 1.0                       | 8                            | 12    | 5                            | 13        | w.         | State Normal School.         |
| Towanda            | Bradford     | 754             | 34                      | 40.2                         | +0.9                      | 68      | 2    | 7      | 30   | 32                       | 2.83  | +0.83                     | 0.94                 | 1.5                       | 13                           | 3     | 15                           | 12        | sw.        | Hiram E. Bull, C. E.         |
| Wellsboro          | Tioga        | 1,419           | 63                      | 37.0                         | -0.5                      | 67      | 1    | 2      | 30   | 26                       | 2.90  | -0.38                     | 0.68                 | 0.5                       | 8                            | 10    | 6                            | 14        | w.         | George W. Hill.              |
| West Chester       | Chester      | 455             | 91                      | 45.1                         | +2.3                      | 79      | 2    | 14     | 30   | 26                       | 3.70  | +0.07                     | 1.16                 | T.                        | 10                           | 13    | 8                            | 9         | w.         | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 42                      | 41.0                         | +0.2                      | 67      | 1    | 6      | 30   | 28                       | 2.96  | +0.56                     | 1.25                 | T.                        | 10                           | 7     | 5                            | 18        | w.         | Miss Veronica E. April.      |
| York               | York         | 400             | 41                      | 44.2                         | +1.7                      | 78      | 2    | 9      | 30   | 32                       | 2.75  | +0.20                     | 1.47                 | 1.0                       | 10                           | 9     | 11                           | 10        | e.         | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Beaver Dam†        | Beaver       | 700             | 36                      | 40.6                         | -2.7                      | 72      | 1†   | 2      | 30   | 27                       | 4.01  | +1.67                     | 1.46                 | 0.5                       | 13                           | 4     | 12                           | 14        | sw.        | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 14                      | 39.3                         | +0.5                      | 70      | 1    | 6      | 23†  | 28                       | 3.22  | -0.34                     | 0.55                 | 6.8                       | 18                           | 2     | 15                           | 13        | sw.        | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 38                      | 35.5                         | -2.1                      | 74      | 1    | -2     | 30   | 40†                      | 3.40  | +0.56                     | 1.20                 | 2.5                       | 9                            | 11    | 6                            | 13        | .....      | John Fawcett.                |
| Butler             | Butler       | 1,152           | 4                       | 39.0                         |                           | 75      | 1    | 1      | 30   | 34                       | 4.21  |                           | 1.55                 | 2.0                       | 11                           | 12    | 4                            | 14        | nw.        | William C. Faust.            |
| Claysville         | Washington   | 1,150           | 25                      | 41.2                         | -0.3                      | 77      | 1    | -1     | 30   | 34                       | 4.17  | +2.23                     | 0.80                 | 1.9                       | 15                           | 10    | 2                            | 18        | n.         | J. L. Melvin.                |
| Corry              | Erie         |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |



## Daily Precipitation for November, 1929

| Stations           | Drainage Basin | Day of month |      |      |     |     |   |     |     |     |     |     |     |      |     |     |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     | Total |
|--------------------|----------------|--------------|------|------|-----|-----|---|-----|-----|-----|-----|-----|-----|------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|                    |                | 1            | 2    | 3    | 4   | 5   | 6 | 7   | 8   | 9   | 10  | 11  | 12  | 13   | 14  | 15  | 16   | 17   | 18   | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |
| Atlantic Drainage. |                |              |      |      |     |     |   |     |     |     |     |     |     |      |     |     |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Allentown\|\|\| | Lehigh         | .02          |      | .39  | .52 |     |   |     |     |     |     |     |     |      | .13 | .13 | .12  | .10  | 1.30 | .35 |     | .03 |     |     | T.  | .01 | .01 |     |     | .08 |     |     | 3.19  |
| Altoona            | Juniata        |              | .05  | .41  | .03 | .06 |   |     |     |     | .05 |     | .03 | .55  | .60 |     | .55  | .46  | .06  | .03 | T.  |     |     |     |     |     |     |     | .23 | .52 | .03 |     | 3.66  |
| Ansonia\|\|\| | W. Br. Susq.   | .03          | .02  | .30  |     | .01 |   |     | T.  |     |     | .11 |     |      | T.  | .86 |      | .07  | 1.06 | .06 | .02 | T.  | .02 |     |     |     |     |     |     |     |     |     | 2.56  |
| Arendtsville\|\|\| | Lower Susq.    |              |      | .40  | .29 |     |   |     |     |     | .08 |     |     | .05  | .05 | .12 |      | .15  | 1.57 | .01 |     |     |     |     | T.  | .03 |     |     |     |     |     |     | 2.75  |
| Baker's Summit     | Juniata        |              | .16  | .33  |     |     |   |     |     |     | .06 |     |     | .02  | .53 | .15 |      | .53  | .48  |     |     |     |     |     |     | .10 | .22 |     |     |     |     |     | 2.58  |
| Bellefonte***      | W. Br. Susq.   | T.           | .03  | .35  | T.  | T.  |   |     | T.  | T.  | T.  | .06 |     |      | T.  | .40 | .39  | .75  | .58  | T.  | .02 |     |     | .02 | T.  | T.  |     |     |     | .06 | T.  |     | 2.66  |
| Bethlehem          | Lehigh         | .01          |      | .98  | .03 |     |   |     |     |     |     |     |     | .08  | .03 | .22 |      | .20  | 1.32 |     |     | .04 |     |     | .08 |     |     |     |     |     | .10 |     | 3.09  |
| Blossville\|\| | Lower Susq.    |              |      | .60  | .05 |     |   |     |     |     |     | .20 |     | .27  |     |     |      | .72  | 1.08 |     | .05 |     | T.  | T.  |     |     |     |     |     | .25 | T.  |     | 3.22  |
| Carlisle           | Lower Susq.    | .02          | .02  | .66  |     |     |   |     |     | .02 |     | .07 |     |      | .12 | .07 |      | .67  | 1.48 |     | T.  |     | T.  | T.  |     | T.  |     |     |     | .15 | .06 |     | 3.13  |
| Catawissa          | N. Br. Susq.   | .01          | .30  | .43  |     |     |   | .01 | .01 | T.  | .06 |     |     | T.   | .32 | .11 |      | .62  | .85  |     | .02 | T.  |     |     | T.  |     |     |     |     | .02 | .18 |     | 2.95  |
| Center Hall        | Susquehanna    |              | .32  | .26  |     |     |   |     |     |     |     | .10 | .28 | 1.12 |     |     | 1.26 | .38  | .01  | .27 | T.  |     |     | .02 |     |     |     |     | .02 |     |     |     | 4.22  |
| Chambersburg       | Potomac        |              | .06  | .96  |     |     |   |     |     |     | .10 |     | .11 | .16  | .07 |     |      | .39  | 1.21 |     | .03 |     |     | .02 |     |     |     |     |     | .11 |     |     | 3.22  |
| Clearfield         | W. Br. Susq.   | T.           | T.   | .07  | .20 |     |   |     |     |     | .25 | T.  | .60 | .61  |     |     |      | .72  | .45  | .18 | .15 | .07 |     |     | T.  |     |     |     | .10 |     | T.  |     | 3.45  |
| Coatesville        | Lower Del.     |              | .35  | 1.21 | T.  |     |   |     | .02 |     |     |     |     | .04  | .06 | .15 |      | .15  | 1.21 |     |     |     |     |     | .03 |     |     |     |     |     |     |     | 3.22  |
| Colebrook          | Lower Susq.    |              | .05  | .97  | T.  |     |   |     |     |     | .07 |     |     | .04  | .04 | .10 |      | .66  | .86  |     | .08 |     | T.  | T.  |     | .05 |     |     |     |     |     |     | 2.93  |
| Conshohocken       | Schuylkill     |              | .62  | .34  | .16 | T.  |   |     | T.  | T.  |     |     | .06 | .03  | .14 |     |      | .54  | .50  |     | .04 |     | T.  | T.  |     |     |     |     |     |     |     |     | 2.43  |
| Cresson\|\| | Juniata        |              | .17  | .45  |     |     |   |     |     |     | .07 |     |     | .01  | .40 | .58 |      | .70  | .20  |     |     |     |     |     |     |     |     |     |     |     |     |     | 3.32  |
| Doylestown         | Lower Del.     |              |      | .90  | .08 |     |   |     | T.  |     |     |     | .07 | .14  | .14 |     |      | .18  | 1.06 |     | .03 |     |     | T.  | .04 |     |     | .30 | .35 |     |     |     | 2.64  |
| Driftwood\|\|\| | W. Br. Susq.   | .05          | .01  | *    | .35 |     |   |     | T.  | T.  |     | .05 |     |      | .45 | .80 |      | *    | 2.00 |     | T.  |     |     |     |     |     |     |     |     |     |     | .01 | 3.72  |
| Emporium           | do.            |              | .10  | .46  | T.  |     |   |     | T.  | .10 | .04 | .19 |     | .19  | .45 | .45 |      | .49  | .52  | .12 | .04 |     |     | T.  | T.  |     |     |     | .13 | .20 | T.  |     | 3.48  |
| Ephrata            | Lower Susq.    | T.           |      | 1.31 | .01 |     |   |     |     |     | .02 |     | .02 | .08  | .14 |     |      | .39  | 1.17 |     | T.  | .03 | T.  |     |     | .02 |     |     |     |     |     |     | 3.19  |
| Forest City        | N. Br. Susq.   | .03          |      |      | .15 |     |   |     | .05 |     | .08 |     |     | .08  | .65 | T.  | .04  | .76  | .34  |     |     |     |     |     |     |     |     |     | .40 | T.  | T.  |     | 2.58  |
| Freeland\|\|\| | Lehigh         | .20          |      | .23  | .47 | .02 |   |     | .02 |     | .01 |     |     | .04  | .38 | .10 | .02  | 1.26 | .58  | T.  | .06 |     |     |     |     | .04 |     |     |     | .39 |     |     | 3.84  |
| George School      | Lower Del.     |              | .06  | .80  | .25 |     |   | .01 |     |     |     | .08 | .10 | .24  |     |     | .19  | .72  |      |     | .02 |     |     | T.  | .03 |     |     |     | .02 |     |     |     | 2.52  |
| Gettysburg         | Potomac        | .01          | .01  | .80  | T.  |     |   |     | .07 |     |     | .05 | .07 | .06  |     |     | .24  | 1.68 | .01  | T.  | .01 | T.  |     |     | T.  |     |     |     |     | .02 |     |     | 3.03  |
| Girardville\| | Lower Susq.    |              | .28  | .47  |     |     |   |     | .03 |     | .06 | .12 | .12 | .17  |     |     | .80  | .91  | .25  |     | .02 |     |     |     | .04 |     |     |     | .04 | .16 |     |     | 3.22  |
| Gordon             | Lower Susq.    |              | .05  | .74  |     |     |   |     | .08 |     | .05 | .10 | .18 |      |     |     | .33  | 1.25 |      | T.  | .10 |     |     |     | .10 |     |     |     |     | .22 |     |     | 3.20  |
| Gouldsboro\|\| | Lehigh         | .12          |      | .28  | .66 |     |   |     |     |     | .15 |     |     | .15  | .45 |     |      | 1.70 | .25  |     |     |     |     |     |     |     |     |     |     | .20 |     |     | 3.95  |
| Graterford         | Schuylkill     |              |      | 1.63 | .36 |     |   |     |     |     |     | .20 | .14 | .11  |     |     | .38  | 1.24 |      |     |     |     | T.  | .03 |     |     |     |     |     |     |     |     | 4.09  |
| Hamburg            | Schuylkill     |              | .60  | .06  |     |     |   |     |     |     | .09 | .02 | .05 | .06  |     |     | .25  | 1.49 |      |     | .01 | .03 | T.  | .01 | .05 |     |     |     | .30 |     |     |     | 3.26  |
| Hanover            | Lower Susq.    |              | T.   | 1.35 | .05 |     |   |     | T.  |     | .09 |     |     | .12  | .05 |     | 1.04 | .91  |      |     | .01 |     | T.  | T.  |     |     |     |     |     | .04 |     |     | 3.50  |
| Harrisburg***      | do.            |              | .16  | .45  | T.  |     |   |     | .01 | T.  | .02 |     | .03 | .12  | .05 |     |      |      |      |     | .01 |     | T.  | T.  |     |     |     |     |     | .01 |     |     | 2.82  |
| Hawley\|\|\| | Upper Del.     | .07          |      | .30  | .27 |     |   |     | T.  |     |     |     | .07 | .58  | .08 | T.  | .95  | .65  |      |     |     |     | T.  |     |     |     |     |     |     | .06 |     |     | 3.09  |
| Hollisterville     | Upper Del.     | .11          |      | .30  | .27 | .02 |   |     | T.  |     |     |     | .12 | .50  | .08 | T.  | .94  | .56  | .03  |     |     |     |     |     | .02 | T.  |     |     | .09 | T.  | .01 |     | 3.07  |
| Holtwood\|\| | Lower Susq.    |              | 1.12 | .30  |     |     |   |     |     |     | .02 |     | .03 | .10  |     |     | .17  | 1.32 |      | .03 |     | .03 |     |     |     |     |     |     |     |     |     |     | 3.12  |
| Huntingdon         | Juniata        |              | .08  | .41  | T.  |     |   |     |     |     | .06 |     | T.  | .51  | .27 |     | .55  | .53  | .02  | T.  | T.  |     | T.  | .01 |     |     |     |     | .07 | .13 |     |     | 2.64  |
| Hyndman            | Potomac        | T.           | .15  | .64  | T.  |     |   |     |     |     | .12 | T.  | .28 | .07  |     |     | .61  | .56  |      | .10 | .03 | .03 | T.  |     |     |     |     |     |     | .42 | .01 |     | 3.02  |
| Kylestown          | W. B. Susq.    |              |      | .41  |     |     |   |     |     |     | .10 | T.  | .45 | .20  |     |     | .64  | .50  | .08  | .03 | .02 | T.  |     |     |     |     |     |     |     | .20 | T.  |     | 2.63  |
| Lakeville\|\|\| | Upper Del.     | .10          | T.   | .23  | .30 | .10 |   |     |     |     |     | T.  | .08 | .80  | .01 | T.  | .93  | .65  |      |     |     |     |     |     |     |     |     |     |     | .12 | T.  | T.  | 3.32  |
| Lancaster          | Lower Susq.    |              |      | 1.00 |     |     |   |     |     |     | .03 |     | .04 | .03  |     |     | .23  | 1.49 |      |     | .05 |     |     |     | .03 |     |     |     |     |     |     |     | 2.90  |
| Lansford\|\|\| | Lehigh         | .07          |      | *    | .66 |     |   |     | *   |     | .04 |     |     | .06  | .16 | *   | *    | 1.78 | .44  |     |     |     |     |     |     |     |     |     |     |     | .01 |     | 3.22  |
| Lawrenceville      | N. Br. Susq.   |              | .12  | .28  | T.  |     |   |     |     |     | .15 |     |     | .23  | .80 |     | 1.12 | .83  | .10  | T.  | T.  | T.  |     |     |     |     |     |     |     | .20 |     |     | 3.83  |
| Lebanon            | Lower Susq.    |              | .56  | .39  | T.  |     |   | T.  |     |     | .05 |     | .05 | .12  | .10 | .15 | 1.30 | .33  | .03  | .03 |     |     |     | .06 |     |     |     |     |     | .08 | T.  |     | 3.25  |
| Lewisburg          | W. Br. Susq.   | .02          | .10  | .48  | T.  |     |   |     | .02 |     | .06 |     | .05 | .43  | .10 |     | .54  | 1.16 | T.   | T.  | .10 |     |     |     | .02 |     |     |     |     | .02 |     |     | 3.10  |
| Lloyd              | do.            |              |      |      |     |     |   |     |     |     |     |     |     |      |     |     |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 2.83  |
| Lock Haven         | do.            |              | .12  | .60  | .01 |     |   |     | .02 |     | .05 |     | .32 | .37  |     |     | .39  | .82  | .10  | .01 | T.  |     |     |     | .02 |     |     |     |     |     |     |     | 2.83  |
| Lykens             | Susquehanna    |              | .05  | .66  |     |     |   |     | .04 | T.  |     | .08 | .06 | .27  |     |     | .49  | 1.78 | T.   | .01 |     |     |     |     | T.  |     |     |     | .02 | .30 | T.  |     | 3.69  |
| Mauch Chunk        | Lehigh         |              | .08  | .59  |     |     |   |     |     |     | .15 | .05 | .12 |      |     |     | .92  | 1.46 |      |     |     |     |     |     | .01 |     |     |     | .09 | .12 |     |     | 3.59  |
| Mifflintown        | Juniata        |              | .05  | .38  |     |     |   |     |     |     | .06 |     | .32 | .17  |     |     | .48  | 1.09 |      | .05 | .01 |     |     |     | T.  |     |     |     |     | .25 |     |     | 2.86  |
| Montrose           | N. Br. Susq.   | .15          | .10  |      |     |     |   |     |     |     |     |     |     | .80  | .85 |     | .29  | 1.30 |      |     |     |     |     |     |     |     |     |     |     | .25 |     |     | 3.74  |
| Morris Run         | N. Br. Susq.   |              | .05  | .45  | .04 |     |   |     |     |     | .06 |     | .26 | .48  | .04 |     | .80  | .25  | .40  |     | .03 |     |     |     | .02 |     |     |     |     | .10 | .04 |     | 3.02  |
| Mount Pocono       | Upper Del.     | .12          |      | .10  | .50 | .10 |   |     | .05 |     | .10 | .15 | .28 |      |     |     | .16  | .23  |      | T.  |     |     |     |     | .02 |     |     |     |     | .25 |     |     | 4.16  |
| Muncy Valley       | W. Br. Susq.   | T.           | .08  | .94  | T.  | T.  |   |     |     |     | T.  | T.  | .21 | .57  |     |     | .38  | 1.38 |      |     |     |     |     |     |     |     |     |     |     |     |     |     |       |



## Daily Precipitation for November, 1929—Continued from page 53

| Stations           | Drainage Basin    | Day of month |      |     |     |     |     |   |     |   |     |     |     |     |     |      |      |      |      |      |     |      |     |     |     |     |     |     |     |     |     |     | Total |      |      |      |
|--------------------|-------------------|--------------|------|-----|-----|-----|-----|---|-----|---|-----|-----|-----|-----|-----|------|------|------|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|
|                    |                   | 1            | 2    | 3   | 4   | 5   | 6   | 7 | 8   | 9 | 10  | 11  | 12  | 13  | 14  | 15   | 16   | 17   | 18   | 19   | 20  | 21   | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |      |      |
| Ohio Drainage.     |                   |              |      |     |     |     |     |   |     |   |     |     |     |     |     |      |      |      |      |      |     |      |     |     |     |     |     |     |     |     |     |     |       |      |      |      |
| Beaver Dam\|\|\| | Ohio.....         | .03          | .34  | .35 | T.  | .03 |     |   |     |   |     | .20 |     |     | .56 | .30  |      | .30  | 1.46 | .03  | .08 | .03  |     |     |     |     |     |     |     |     |     |     | 4.01  |      |      |      |
| Beaver Falls\|\|\| | Beaver.....       | .11          | .33  | .25 | T.  | .01 |     |   |     |   |     | .22 |     |     | .35 | .38  |      | .20  | 1.24 | .08  | .09 | .02  |     |     |     | T.  |     |     |     |     | .30 | .01 | T.    | 3.49 |      |      |
| Bradford.....      | Allegheny.....    | .03          | .24  | .10 | .06 | .16 |     |   |     |   |     | .06 |     |     | .14 | .24  | .18  |      | .54  | .55  | .15 | .02  | .08 | .02 |     |     |     |     |     |     | .15 | .30 | .20   | 3.22 |      |      |
| Brookville.....    | do.....           | .10          | .16  | T.  | T.  |     |     |   |     |   |     | .12 |     |     | .35 | .85  | T.   | T.   | 1.20 |      | .15 | T.   |     | T.  | T.  |     |     |     |     |     | .42 | .05 |       | 3.40 |      |      |
| Butler.....        | Ohio.....         | .04          | .71  |     |     |     |     |   |     |   |     | .15 |     |     | *   | 1.05 |      |      | 1.55 |      | .15 | .07  | .05 |     |     |     |     |     |     |     | .37 | .07 |       | 4.21 |      |      |
| Claysville.....    | do.....           | T.           | .25  | .35 | .02 |     |     |   |     |   |     | .11 |     |     | .25 | .79  | .20  |      | .80  | .79  | .09 | .07  | .02 | T.  |     |     |     |     |     |     | .18 | .23 | .02   | 4.17 |      |      |
| Cloeff.....        | Allegheny.....    |              | .16  | .15 | T.  |     |     |   |     |   |     | .06 | .07 |     | .15 | .23  | .28  |      | .93  | .40  | .20 | T.   |     |     |     |     |     |     |     |     | .23 | .10 |       | 2.96 |      |      |
| Clymer\|\|\| | Conemaugh.....    |              | .05  | .28 | T.  |     |     |   |     |   |     | .24 |     |     | .04 | .58  | .32  |      | .84  | .82  | .12 | .06  | T.  |     |     |     |     |     |     |     | .28 | .26 |       | 3.89 |      |      |
| Confluence\|\|\| | Youghiogheny..... | .05          |      | .70 | .05 |     |     |   |     |   |     |     |     |     |     | .40  | .48  |      | .40  | 1.10 | .05 | .10  | .19 |     | .05 |     |     |     |     |     | .55 | .07 |       | 4.19 |      |      |
| Coraopolis\|\|\| | Ohio.....         | .03          | .06  | .38 |     | T.  |     |   |     |   |     | .15 |     |     |     | .26  | .58  |      | .26  | 1.37 | .07 | .03  | .03 | T.  |     |     |     |     |     |     | T.  | .42 | T.    | T.   | 3.64 |      |
| Corry.....         | Allegheny.....    | 1.19         |      |     | .48 |     |     |   |     |   |     | .15 |     |     | .05 | .11  | .03  |      | .35  | .98  | T.  | .04  | .10 | .20 |     |     | .01 |     |     |     | .16 | .02 | .08   | .44  | 4.39 |      |
| Coudersport.....   | do.....           | .05          | .20  |     | .07 |     |     |   | .06 |   | .09 |     |     |     | .42 | .42  |      | .07  | .87  | .17  | .02 | .08  | .02 |     |     |     |     |     |     |     | .29 | .05 |       | 2.88 |      |      |
| Creekside.....     | Allegheny.....    |              |      | .53 | .02 |     |     |   |     |   |     | .18 |     |     | *   | .76  |      |      | *    |      | T.  | 2.00 |     |     |     |     |     |     |     |     | .38 |     |       | 3.87 |      |      |
| Derry.....         | Conemaugh.....    |              |      | .40 |     |     |     |   |     |   |     | .14 |     |     | .05 | .60  | .61  |      | .80  | .34  | .16 | .06  |     |     |     |     |     |     |     |     | .21 | .22 |       | 3.59 |      |      |
| Donora\|\|\| | Monongahela.....  | T.           | .04  | *   | .40 |     |     |   |     |   | *   | .10 |     |     |     | .55  | .70  |      | *    | 1.50 | T.  | .07  |     | .02 |     |     |     |     |     |     | .21 | .10 | .10   | T.   | 3.58 |      |
| Ebensburg.....     | Conemaugh.....    |              | .05  | .40 |     |     |     |   |     |   |     | .11 |     |     |     | .81  | .64  |      |      | .56  | .45 | .20  | T.  | T.  |     | T.  |     |     |     |     | .10 | .50 |       | 3.92 |      |      |
| Elk Lick.....      | Youghiogheny..... |              | .25  | .65 | .02 |     |     |   |     |   |     | .20 |     |     | .48 |      |      |      | 1.20 |      |     | .30  |     | .10 |     |     |     |     |     |     | .12 | .80 |       | 4.12 |      |      |
| Falls Creek.....   | Allegheny.....    |              | .11  | .39 |     |     |     |   |     |   |     | .14 |     |     | .40 | .16  |      |      | .52  | .61  | .12 | .15  |     |     |     |     |     |     |     |     | .21 | .05 | .22   | 3.08 |      |      |
| Franklin\|\|\| | Allegheny.....    | .12          | .34  | .12 |     | .18 |     |   |     |   |     | .29 |     |     | .39 | .33  |      | .08  | 1.49 | .39  | .10 | .04  | T.  |     |     |     |     |     |     |     | .02 | .29 | .06   |      | 4.28 |      |
| Freeport\|\|\| | do.....           | .05          | .05  | .41 | .01 | .01 |     |   |     |   |     |     |     |     | .14 | .43  | T.   | .20  | 1.42 | .07  | .09 | .02  |     |     |     |     |     |     |     |     | T.  | .37 | T.    | T.   | 3.37 |      |
| Greensboro.....    | Monongahela.....  | T.           | T.   | .63 | .06 |     |     |   |     |   |     | .09 |     |     | .32 | .52  |      | .45  | 1.05 |      | .12 | .06  |     |     | .02 |     |     |     |     |     | .30 | T.  | T.    | 3.62 |      |      |
| Greensburg.....    | Youghiogheny..... |              | .18  | .33 | .03 |     |     |   |     |   |     | .15 |     |     | .28 | .72  | .38  |      | .76  | .62  | .13 | .07  | T.  | T.  |     |     |     |     |     | T.  | .16 | .11 | T.    | 3.92 |      |      |
| Greenville.....    | Beaver.....       | .29          | .81  | .17 | .17 | .10 |     |   |     |   |     | .04 | .11 | .02 | .21 | .20  | .05  |      | .68  | 1.27 | .25 | .18  | .05 | .10 |     |     |     |     |     | .10 | .17 | .02 | T.    | 4.99 |      |      |
| Grove City.....    | Beaver.....       | .03          | .03  | .43 | .11 | .03 | .04 |   |     |   | T.  | .32 |     |     | .40 | .37  | .08  |      | .58  | 1.05 | .16 | .06  | .02 | .01 |     | T.  |     |     |     |     | .16 | .37 | T.    | .02  | 4.27 |      |
| Herr's Isl. Dam\|\|\| | Ohio.....         | .01          | .04  | .41 | T.  |     |     |   |     |   |     | .14 |     |     | .22 | .55  |      | .28  | 1.38 | .02  | .12 | T.   | T.  |     |     |     |     |     |     |     | .43 | T.  | T.    | 3.60 |      |      |
| Ingram.....        | Ohio.....         | T.           | .20  | .23 | .02 |     |     |   |     |   | .02 | .13 |     |     | .27 | .33  | .09  | 1.20 | .80  | .11  | .03 | T.   | T.  |     |     |     |     |     |     |     | .26 | .20 | T.    |      | 3.89 |      |
| Irwin.....         | Youghiogheny..... | .02          | .08  | .21 | T.  |     |     |   |     |   | T.  | .14 |     |     | .16 | .72  | .23  |      | .77  | .60  | .06 | .06  |     | T.  |     |     |     |     |     |     | .06 | T.  |       | 3.11 |      |      |
| Johnstown.....     | Conemaugh.....    | .02          | .07  | .51 | .04 |     |     |   |     |   | .04 | .06 |     |     | .10 | .69  | .34  |      | .62  | .43  | .21 | T.   | .03 | .05 | .01 |     |     |     |     |     | .40 | .20 | .06   |      | 3.88 |      |
| Keglar\|\|\| | Youghiogheny..... |              | .34  | .20 | .03 |     |     |   |     |   | .14 | T.  | .16 | .87 |     |      |      | .29  | .79  | .09  | .07 | .09  |     |     |     |     |     |     |     |     | .25 | T.  |       |      | 3.32 |      |
| Lock No. 4\|\|\| | Monongahela.....  |              | .01  | .44 | .03 | .02 |     |   |     |   | .06 |     |     |     | .22 | 1.00 |      | .22  | 1.35 | .06  | .07 | .04  |     | .01 |     |     |     |     |     |     | T.  | .29 | T.    | T.   | 3.82 |      |
| Lycippus.....      | Conemaugh.....    |              | .17  | .33 | T.  |     |     |   |     |   |     | .24 | .50 |     | .57 | .60  |      |      | .57  | .60  |     | .03  |     | .01 |     |     |     |     |     |     | .22 |     |       | 2.67 |      |      |
| Meadville.....     | Allegheny.....    | .02          | 1.03 | .08 | .08 | .16 |     |   |     |   |     |     | .35 | .15 | .01 |      | .47  | 1.35 | .30  | .03  | .20 |      |     |     |     |     |     |     |     |     | .17 | .45 |       | .05  | 4.90 |      |
| Mount Lebanon..... | Ohio.....         |              | .22  | .28 | .03 |     |     |   |     |   | .15 |     | .24 | .56 | .20 | 1.00 | .81  | .18  | .02  |      |     |      |     |     |     |     |     |     |     |     | .27 | .13 | T.    |      | 4.09 |      |
| New Castle\|\|\| | Beaver.....       | .12          | .26  | .13 | .03 | .02 |     |   |     |   | .43 |     |     | .83 | .27 | .37  | 1.01 | .06  | .05  | .03  | .03 | .01  | .01 | .01 |     |     |     |     |     |     | .15 | .20 | .05   |      | 4.07 |      |
| Newell.....        | Monongahela.....  |              | .25  | .19 |     |     |     |   |     |   |     | .12 | .52 | .50 |     | .70  | 1.20 |      | .08  | .05  |     |      |     |     |     |     |     |     |     |     | .05 |     |       | 3.66 |      |      |
| Parkers Landing\|\|\| | Allegheny.....    | .03          | .32  | .30 |     | .10 |     |   |     |   | .09 |     |     |     | .78 | .62  | T.   | .22  | 1.27 | .10  | T.  | .30  |     |     |     |     |     |     |     |     | T.  | .20 | T.    | T.   | 4.33 |      |
| Pennline\|\|\| | Beaver.....       | .10          | .57  | .09 | .05 | .13 |     |   |     |   | .33 |     |     | .53 | .18 |      | .19  | 1.50 | .26  | .02  | .20 | .03  |     |     |     |     |     |     |     |     | .05 | .24 | .33   | .27  | 5.07 |      |
| Pittsburgh***      | Ohio.....         | T.           | .18  | .25 | .01 |     |     |   |     |   | .10 | .01 |     | .20 | .42 | .08  |      | .29  | .42  | .08  | .03 | T.   | T.  |     |     |     |     |     |     |     | T.  | .23 | .08   | T.   |      | 3.38 |
| Ridgway.....       | Allegheny.....    | .11          | .34  |     | .90 |     |     |   |     |   | .15 |     |     | .36 | .75 |      | .04  | 1.02 | .11  | .08  | .04 |      |     |     |     | T.  |     |     |     |     | .22 | T.  |       | 4.12 |      |      |
| Saltsburg\|\|\| | Conemaugh.....    | .03          |      | .42 | .01 | .01 |     |   |     |   | .18 |     |     | .17 | .96 |      | .20  | 1.33 | .10  | .07  | .06 |      |     |     |     |     |     |     |     |     | .30 | .03 |       | 3.87 |      |      |
| Sharon\|\|\| | Beaver.....       | .21          | .70  |     | T.  | .15 | .03 |   |     |   | .55 |     |     | .43 | .25 |      | .20  | 1.85 | .12  | .13  | .03 | T.   | T.  |     |     |     |     |     |     |     | T.  | .13 | .02   |      | 4.80 |      |
| Somerset.....      | Youghiogheny..... |              |      |     |     |     |     |   |     |   |     |     |     |     |     |      |      |      |      |      |     |      |     |     |     |     |     |     |     |     |     |     |       |      |      |      |
| Springdale\|\|\| | Allegheny.....    | .01          | .02  | .42 |     | .01 |     |   |     |   | .17 |     |     | .18 | .71 |      | .28  | 1.48 | .05  | .07  | .05 |      |     |     |     |     |     |     |     |     |     | .47 | .02   |      | 3.94 |      |
| Uniontown.....     | Monongahela.....  |              | .40  | .30 | .01 |     |     |   |     |   | T.  | .07 |     | .29 | .36 | .34  |      | .62  | .55  | .01  | .17 | .03  | T.  |     |     |     |     | .01 | .10 | .35 | .03 |     |       | 3.64 |      |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              | .18  | .38 | .03 |     |     |   |     |   | .18 |     |     | .68 | .50 |      | .70  | .63  | .13  | .05  |     | T.   |     |     |     |     |     |     |     |     | .17 | .16 |       | 3.79 |      |      |
| Vandergrift\|\|\| | Conemaugh.....    | .01          |      | .66 | .01 |     |     |   |     |   | .09 | .03 |     | .19 | .34 | .25  |      | 1.04 | .31  | .10  | .04 |      |     |     |     |     |     |     |     |     | .18 |     |       | 3.25 |      |      |
| Warren.....        | Allegheny.....    | .20          | .20  | .11 | .10 | .23 |     |   |     |   | .10 |     |     | .10 | .30 | .38  |      | .30  | 1.00 | .20  | .15 | .20  | .10 | .03 |     | .03 |     |     |     |     | .25 | .20 | .05   | .11  | 4.34 |      |
| Westford\|\|\| | Beaver.....       | .80          | .08  | .04 | .13 |     |     |   |     |   | .43 |     |     | .78 | .14 |      | .13  | 1.87 | .29  | .02  | .03 |      |     |     |     |     |     |     |     |     |     | .15 |       |      | 4.89 |      |
| West Newton\|\|\| | Youghiogheny..... | .05          |      | .42 | .02 |     |     |   |     |   | .17 |     |     | .21 | .96 |      | .22  | 1.25 |      | .09  | .06 |      |     |     |     |     |     |     |     |     |     | .30 |       |      | 3.75 |      |
| Zelienople\|\|\| | Ohio.....         |              |      |     |     |     |     |   |     |   |     |     |     |     |     |      |      |      |      |      |     |      |     |     |     |     |     |     |     |     |     |     |       |      |      |      |
| Lake Drainage.     |                   |              |      |     |     |     |     |   |     |   |     |     |     |     |     |      |      |      |      |      |     |      |     |     |     |     |     |     |     |     |     |     |       |      |      |      |
| Erie***            | Lake Erie.....    | .21          | .19  |     | .32 | T.  |     |   |     |   | .10 | T.  |     | .70 | .14 | .02  |      | .35  | .88  | .30  | .24 | .78  | .09 |     | T.  | T.  |     |     | .06 | .04 | .07 | .16 |       | 4.65 |      |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

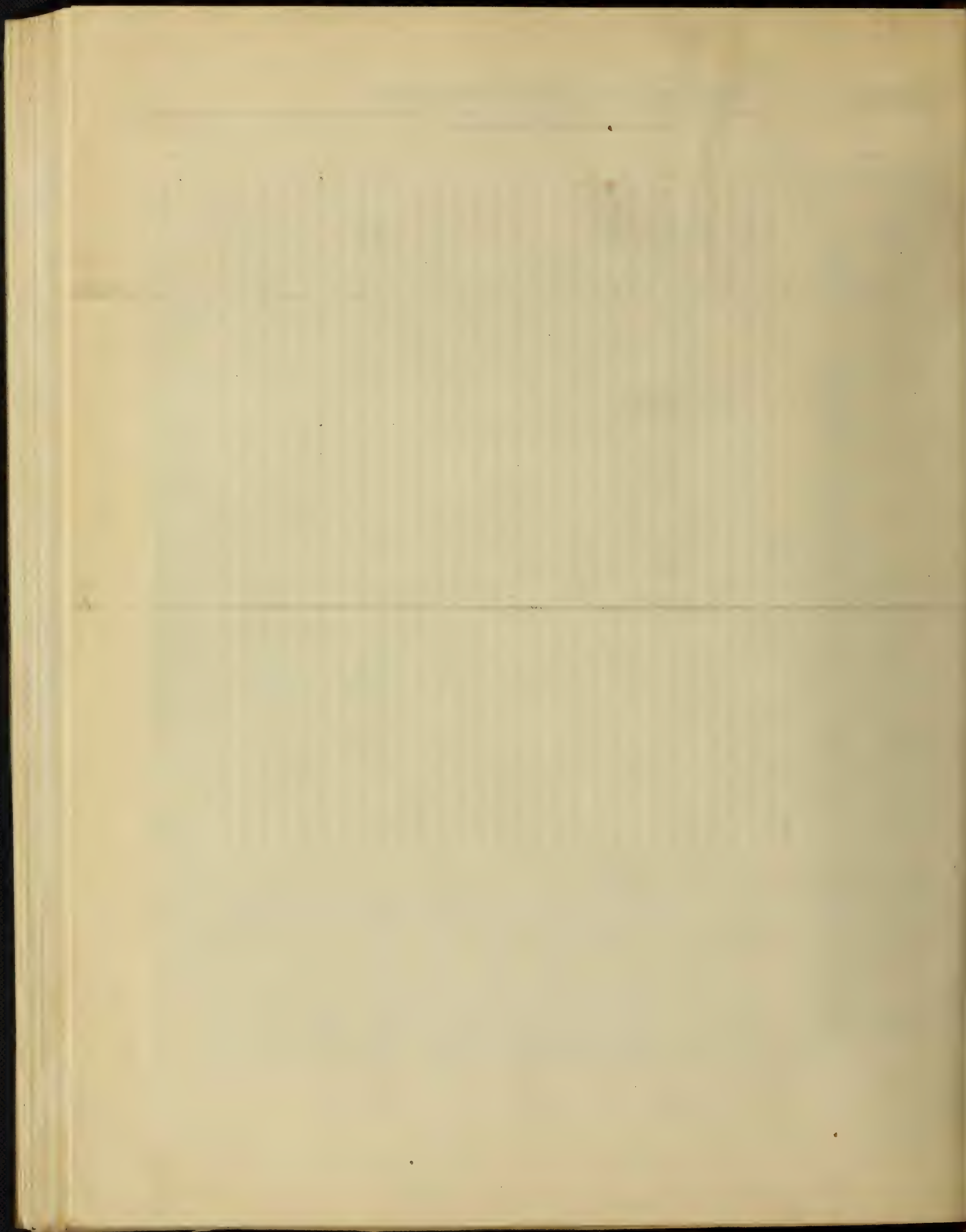
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Blossville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasimink; of Unity Reservoir, Greensburg. † Mdt. to mdt.



Daily Temperatures for November, 1929

| Stations          | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9     | 10    | 11    | 12    | 13    | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25    | 26 | 27 | 28 | 29 | 30    | 31    | Mean  |      |
|-------------------|------------|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|-------|----|----|----|----|-------|-------|-------|------|
| Allentown.....    | Maximum 73 | 75 | 58 | 60 | 54 | 55 | 44 | 48 | 49    | 55    | 56    | 59    | 55    | 65 | 65 | 52 | 46 | 52 | 56 | 42 | 40 | 34 | 34 | 37 | 40    | 50 | 51 | 38 | 35 | 21    | ..... | 50.0  |      |
|                   | Minimum 41 | 54 | 56 | 48 | 39 | 30 | 31 | 35 | 39    | 31    | 34    | 35    | 35    | 49 | 54 | 37 | 38 | 42 | 38 | 35 | 32 | 27 | 22 | 23 | 30    | 28 | 29 | 34 | 19 | 10    | ..... | 35.2  |      |
| Altoona.....      | Maximum 70 | 67 | 54 | 52 | 43 | 54 | 48 | 51 | 48    | 49    | 62    | 54    | 51    | 57 | 62 | 51 | 48 | 51 | 44 | 39 | 35 | 26 | 24 | 34 | 40    | 48 | 42 | 39 | 20 | 16    | ..... | 46.0  |      |
|                   | Minimum 49 | 54 | 47 | 38 | 34 | 28 | 31 | 31 | 29    | 28    | 39    | 35    | 43    | 50 | 44 | 36 | 38 | 40 | 38 | 33 | 26 | 21 | 18 | 23 | 27    | 23 | 39 | 20 | 10 | 0     | ..... | 32.4  |      |
| Beaver Dam.....   | Maximum 72 | 72 | 58 | 58 | 47 | 54 | 54 | 49 | 49    | 54    | 58    | 60    | 60    | 56 | 51 | 52 | 51 | 42 | 44 | 46 | 40 | 48 | 31 | 37 | 35    | 43 | 47 | 42 | 23 | 15    | ..... | 48.3  |      |
|                   | Minimum 56 | 48 | 46 | 37 | 32 | 30 | 31 | 31 | 27    | 27    | 44    | 33    | 40    | 49 | 45 | 30 | 42 | 44 | 37 | 33 | 28 | 21 | 18 | 24 | 27    | 27 | 40 | 23 | 13 | 2     | ..... | 32.8  |      |
| Bellefonte.....   | Maximum 70 | 65 | 48 | 57 | 46 | 54 | 51 | 52 | 48    | 52    | 60    | 50    | 54    | 56 | 61 | 52 | 42 | 59 | 44 | 36 | 34 | 28 | 26 | 37 | 40    | 51 | 46 | 35 | 19 | 13    | ..... | 46.1  |      |
|                   | Minimum 50 | 52 | 41 | 38 | 28 | 25 | 28 | 30 | 28    | 24    | 35    | 34    | 38    | 48 | 40 | 30 | 39 | 41 | 33 | 31 | 25 | 18 | 14 | 24 | 28    | 23 | 35 | 11 | 6  | 2     | ..... | 30.0  |      |
| Brookville.....   | Maximum 74 | 62 | 61 | 59 | 46 | 53 | 50 | 55 | 45    | 58    | 58    | 65    | 62    | 61 | 56 | 48 | 45 | 49 | 42 | 33 | 33 | 26 | 32 | 32 | ..... | 46 | 41 | 31 | 19 | 15    | ..... | 46.5* |      |
|                   | Minimum 45 | 45 | 35 | 33 | 22 | 20 | 24 | 25 | 21    | 19    | 29    | 25    | 30    | 47 | 28 | 27 | 37 | 39 | 29 | 23 | 20 | 8  | 5  | 28 | ..... | 16 | 29 | 2  | 0  | -2    | ..... | 24.5* |      |
| Butler.....       | Maximum 75 | 72 | 60 | 49 | 49 | 54 | 52 | 51 | 55    | 58    | 63    | 60    | 62    | 54 | 51 | 50 | 47 | 44 | 38 | 37 | 29 | 39 | 37 | 41 | 39    | 37 | 37 | 19 | 16 | ..... | 47.6  |       |      |
|                   | Minimum 61 | 49 | 38 | 38 | 32 | 30 | 26 | 30 | 22    | 21    | 35    | 35    | 28    | 49 | 45 | 28 | 39 | 48 | 36 | 31 | 26 | 21 | 12 | 26 | 24    | 29 | 25 | 10 | 1  | ..... | 30.5  |       |      |
| Carlisle.....     | Maximum 75 | 72 | 66 | 59 | 54 | 58 | 52 | 52 | 52    | 56    | 57    | 62    | 57    | 57 | 63 | 56 | 50 | 56 | 51 | 46 | 42 | 34 | 29 | 38 | 43    | 60 | 65 | 48 | 30 | 19    | ..... | 51.6  |      |
|                   | Minimum 52 | 52 | 55 | 42 | 39 | 23 | 29 | 38 | 57    | 25    | 41    | 32    | 50    | 52 | 51 | 36 | 40 | 41 | 42 | 30 | 29 | 25 | 17 | 28 | 33    | 35 | 28 | 30 | 15 | 7     | ..... | 35.1  |      |
| Catawissa.....    | Maximum 75 | 75 | 55 | 53 | 55 | 56 | 53 | 57 | 51    | 57    | 55    | 52    | 53    | 64 | 63 | 56 | 42 | 53 | 50 | 50 | 47 | 32 | 33 | 41 | 42    | 53 | 50 | 40 | 27 | 19    | ..... | 50.3  |      |
|                   | Minimum 50 | 60 | 49 | 45 | 35 | 25 | 28 | 34 | 32    | 24    | 34    | 33    | 40    | 50 | 51 | 30 | 37 | 40 | 40 | 32 | 26 | 21 | 15 | 25 | 29    | 24 | 34 | 20 | 14 | 5     | ..... | 32.7  |      |
| Chambersburg..... | Maximum 75 | 72 | 65 | 60 | 52 | 58 | 55 | 52 | 50    | 52    | 62    | 61    | 55    | 57 | 63 | 54 | 47 | 58 | 49 | 45 | 42 | 36 | 27 | 38 | 42    | 54 | 53 | 48 | 28 | 20    | ..... | 51.0  |      |
|                   | Minimum 51 | 56 | 57 | 44 | 37 | 26 | 31 | 40 | 36    | 25    | 37    | 36    | 50    | 50 | 48 | 33 | 41 | 42 | 37 | 29 | 23 | 21 | 27 | 31 | 26    | 31 | 28 | 16 | 7  | ..... | 35.2  |       |      |
| Claysville.....   | Maximum 77 | 70 | 58 | 52 | 51 | 56 | 51 | 52 | 51    | 62    | 65    | 67    | 67    | 60 | 63 | 55 | 53 | 57 | 44 | 44 | 34 | 28 | 35 | 35 | 42    | 47 | 43 | 38 | 24 | 15    | ..... | 49.9  |      |
|                   | Minimum 64 | 46 | 45 | 37 | 29 | 31 | 28 | 27 | 21    | 32    | 49    | 33    | 44    | 52 | 42 | 27 | 43 | 42 | 37 | 32 | 23 | 19 | 14 | 24 | 35    | 31 | 37 | 21 | 8  | -1    | ..... | 32.4  |      |
| Clearfield.....   | Maximum 70 | 75 | 60 | 62 | 50 | 55 | 58 | 58 | 52    | 56    | 63    | 58    | 58    | 56 | 55 | 50 | 50 | 45 | 45 | 40 | 35 | 29 | 29 | 36 | 41    | 48 | 45 | 30 | 20 | 11    | ..... | 47.8  |      |
|                   | Minimum 46 | 50 | 39 | 36 | 38 | 20 | 26 | 28 | 25    | 20    | 24    | 31    | 33    | 49 | 50 | 28 | 43 | 34 | 35 | 29 | 26 | 20 | 10 | 24 | 26    | 24 | 28 | 20 | 9  | 0     | ..... | 28.8  |      |
| Coatesville.....  | Maximum 74 | 77 | 70 | 68 | 51 | 56 | 56 | 51 | 50    | 54    | 58    | 59    | 57    | 61 | 68 | 53 | 49 | 56 | 52 | 46 | 43 | 37 | 33 | 36 | 40    | 51 | 55 | 49 | 32 | 20    | ..... | 52.1  |      |
|                   | Minimum 53 | 63 | 51 | 45 | 32 | 24 | 30 | 41 | 32    | 25    | 38    | 33    | 46    | 56 | 48 | 32 | 37 | 44 | 36 | 27 | 27 | 20 | 27 | 29 | 28    | 29 | 30 | 30 | 15 | 9     | ..... | 34.6  |      |
| Corry.....        | Maximum 67 | 63 | 60 | 52 | 42 | 49 | 46 | 46 | 41    | 54    | 51    | 64    | 52    | 52 | 54 | 52 | 45 | 46 | 42 | 37 | 34 | 29 | 39 | 31 | 40    | 42 | 42 | 40 | 21 | 11    | ..... | 46.1  |      |
|                   | Minimum 49 | 46 | 40 | 34 | 33 | 33 | 25 | 27 | 21    | 24    | 41    | 35    | 41    | 42 | 44 | 25 | 36 | 38 | 34 | 28 | 21 | 18 | -1 | 24 | 21    | 27 | 36 | 16 | 7  | 1     | ..... | 28.8  |      |
| Emporium.....     | Maximum 70 | 67 | 57 | 48 | 46 | 50 | 48 | 54 | 45    | 53    | 57    | 58    | 58    | 55 | 61 | 50 | 42 | 49 | 44 | 37 | 33 | 28 | 27 | 36 | 38    | 45 | 44 | 38 | 19 | 14    | ..... | 45.7  |      |
|                   | Minimum 53 | 50 | 42 | 36 | 32 | 22 | 26 | 29 | 25    | 23    | 38    | 33    | 38    | 52 | 62 | 28 | 36 | 36 | 36 | 28 | 26 | 18 | 5  | 27 | 26    | 17 | 38 | 16 | 9  | 2     | ..... | 29.6  |      |
| Erie.....         | Maximum 69 | 66 | 57 | 48 | 45 | 47 | 47 | 47 | 45    | 47    | 54    | 53    | 56    | 52 | 50 | 48 | 51 | 46 | 47 | 40 | 36 | 32 | 28 | 35 | 32    | 39 | 44 | 42 | 36 | 21    | 14    | ..... | 44.3 |
|                   | Minimum 65 | 44 | 44 | 34 | 38 | 39 | 36 | 34 | 32    | 34    | 46    | 46    | 46    | 45 | 43 | 34 | 42 | 38 | 35 | 27 | 24 | 16 | 15 | 29 | 27    | 34 | 36 | 18 | 11 | 6     | ..... | 34.1  |      |
| Franklin.....     | Maximum 73 | 54 | 62 | 51 | 47 | 54 | 49 | 51 | 45    | 58    | 57    | 65    | 59    | 55 | 52 | 52 | 47 | 46 | 40 | 34 | 33 | 27 | 37 | 31 | 42    | 45 | 45 | 35 | 26 | 20    | ..... | 46.2  |      |
|                   | Minimum 49 | 49 | 44 | 37 | 31 | 32 | 27 | 27 | 23    | 22    | 23    | 33    | 33    | 53 | 44 | 29 | 29 | 40 | 38 | 30 | 26 | 21 | 9  | 11 | 26    | 32 | 22 | 11 | 1  | ..... | 29.0  |       |      |
| Freeland.....     | Maximum 65 | 70 | 59 | 56 | 49 | 52 | 50 | 53 | 44    | 56    | 50    | 61    | 52    | 55 | 60 | 50 | 50 | 48 | 44 | 41 | 38 | 28 | 29 | 37 | 37    | 43 | 45 | 36 | 22 | 14    | ..... | 46.5  |      |
|                   | Minimum 51 | 59 | 47 | 40 | 32 | 32 | 34 | 36 | 28    | 28    | 38    | 42    | 46    | 50 | 42 | 29 | 40 | 37 | 37 | 29 | 24 | 19 | 13 | 22 | 23    | 27 | 36 | 20 | 8  | -1    | ..... | 32.3  |      |
| Gettysburg.....   | Maximum 74 | 77 | 69 | 58 | 53 | 57 | 56 | 50 | 49    | 54    | 60    | 60    | 56    | 59 | 63 | 56 | 51 | 56 | 50 | 45 | 40 | 35 | 29 | 39 | 41    | 52 | 55 | 48 | 32 | 21    | ..... | 51.5  |      |
|                   | Minimum 53 | 63 | 57 | 49 | 39 | 28 | 31 | 43 | 43    | 28    | 41    | 38    | 51    | 52 | 52 | 36 | 44 | 43 | 40 | 39 | 30 | 26 | 25 | 28 | 33    | 32 | 37 | 30 | 18 | 8     | ..... | 37.9  |      |
| Greensburg.....   | Maximum 76 | 69 | 58 | 50 | 47 | 55 | 49 | 57 | 54    | 64    | 68    | 68    | 70    | 59 | 62 | 53 | 53 | 55 | 44 | 37 | 37 | 28 | 33 | 35 | 42    | 48 | 44 | 38 | 22 | 13    | ..... | 49.4  |      |
|                   | Minimum 63 | 48 | 47 | 41 | 34 | 32 | 32 | 36 | 27    | 25    | 47    | 35    | 46    | 54 | 46 | 32 | 43 | 44 | 36 | 33 | 27 | 21 | 17 | 29 | 27    | 30 | 36 | 22 | 10 | 1     | ..... | 34.0  |      |
| Grove City.....   | Maximum 73 | 68 | 59 | 55 | 51 | 51 | 49 | 50 | 46    | 55    | 55    | 65    | 60    | 64 | 67 | 63 | 51 | 46 | 50 | 41 | 38 | 36 | 29 | 35 | 34    | 40 | 44 | 42 | 39 | 19    | 13    | ..... | 47.4 |
|                   | Minimum 63 | 47 | 45 | 37 | 31 | 31 | 27 | 28 | 22    | 24    | 42    | 30    | 42    | 47 | 43 | 28 | 32 | 38 | 36 | 30 | 24 | 19 | 12 | 24 | 24    | 29 | 37 | 18 | 7  | -1    | ..... | 30.6  |      |
| Hamburg.....      | Maximum 71 | 72 | 60 | 64 | 52 | 56 | 55 | 52 | 61    | 58    | 61    | 59    | 55    | 62 | 61 | 56 | 52 | 53 | 44 | 44 | 38 | 38 | 37 | 34 | 38    | 47 | 46 | 34 | 28 | 29    | ..... | 50.6  |      |
|                   | Minimum 52 | 42 | 48 | 48 | 38 | 27 | 24 | 42 | 24    | 26    | 27    | 32    | 42    | 52 | 52 | 40 | 42 | 40 | 33 | 30 | 29 | 26 | 24 | 21 | 26    | 25 | 34 | 18 | 6  | 10    | ..... | 32.7  |      |
| Harrisburg.....   | Maximum 72 | 71 | 60 | 58 | 51 | 56 | 53 | 52 | 47    | 53    | 59    | 59    | 54    | 61 | 63 | 55 | 47 | 56 | 49 | 43 | 40 | 33 | 32 | 39 | 41    | 51 | 52 | 39 | 26 | 21    | ..... | 49.8  |      |
|                   | Minimum 55 | 60 | 51 | 43 | 38 | 34 | 38 | 43 | 37    | 52    | 44    | 37    | 52    | 44 | 37 | 50 | 52 | 47 | 40 | 42 | 43 | 36 | 30 | 28 | 24    | 28 | 34 | 33 | 26 | 13    | 10    | ..... | 27.6 |
| Hawley.....       | Maximum 66 | 69 | 61 | 57 | 51 | 50 | 52 | 48 | 46    | 55    | 51    | 59    | 52    | 58 | 61 | 50 | 45 | 46 | 46 | 41 | 38 | 34 | 32 | 37 | 37    | 43 | 46 | 43 | 25 | 18    | ..... | 47.2  |      |
|                   | Minimum 49 | 59 | 45 | 44 | 36 | 33 | 26 | 32 | 31    | 28    | 35    | 34    | 37    | 49 | 47 | 30 | 36 | 40 | 39 | 29 | 25 | 22 | 8  | 26 | 28    | 19 | 27 | 24 | 3  | 5     | ..... | 31.4  |      |
| Huntingdon.....   | Maximum 74 | 68 | 56 | 54 | 48 | 57 | 52 | 53 | 50    | 58    | 62    | 57    | 54    | 57 | 60 | 55 | 44 | 55 | 47 | 41 | 40 | 33 | 28 | 40 | 42    | 51 | 50 | 40 | 27 | ..... | 49.9* |       |      |
|                   | Minimum 51 | 54 | 45 | 35 | 31 | 23 | 27 | 29 | ..... | ..... | ..... | ..... | ..... | 51 | 49 | 29 | 38 | 41 | 40 | 33 | 29 | 23 | 12 | 24 | 31    | 20 | 38 | 23 | 12 | 5     | ..... | 31.7* |      |
| Hyndman.....      | Maximum 78 | 70 | 64 | 58 | 49 | 60 | 56 | 53 | 53    | 54    | 72    | 63    | 57    | 60 | 60 | 59 | 54 | 53 | 49 | 44 | 40 | 30 | 29 | 43 | 45    | 52 | 50 | 45 | 26 | 19    | ..... | 51.5  |      |
|                   | Minimum 48 | 53 | 53 | 37 | 38 | 23 | 30 | 35 | 29    | 23    | 40    | 34    | 39    | 51 | 49 | 31 | 45 | 44 | 40 | 34 | 30 | 21 | 19 | 29 | 29    | 23 | 43 | 26 | 13 | 8     | ..... | 33.7  |      |
| Johnstown.....    | Maximum 76 | 69 | 55 | 51 | 44 | 54 | 55 | 58 | 49    | 54    | 64    | 61    | 60    | 63 | 61 | 55 | 51 | 49 | 43 | 38 | 34 |    |    |    |       |    |    |    |    |       |       |       |      |







# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. DECEMBER, 1929. No. 12

## GENERAL SUMMARY.

December began with intense cold under the influence of a moderate cold wave that spread over the Middle Atlantic states on the last day of November. This temperature deficiency was offset by an excess during the third week, when high temperature records for December were broken in some places, and the mean for the month was slightly above the December normal. During the mild temperatures of the third week thunderstorms occurred at many places, and were moderately severe in some places. An outstanding feature of the month's weather was the extremely large amount of cloudiness, especially in the western part of the State. Erie recorded only three percent of the possible sunshine, and Pittsburgh nineteen percent. The mean precipitation for the State was somewhat below the normal, but the snowfall was near the normal excepting a small area in the southeast where the proportion of rain was a little larger. Glaze storms occurred in the southeastern part of State on the 2d and 23d, coating the highways with ice, making travel extremely difficult, and causing hundreds of accidents. In the remainder of the State these storms caused moderately heavy snows. The conditions were mostly favorable for winter grains. During the cold wave on the 1st the ground froze to a depth of from three to ten inches, and was almost immediately blanketed with snow. The snow generally melted within a week, and the frost disappeared before the middle of the month. When the second blanket of snow came on the 23d the ground was mostly free from frost. The winter grains were reported to be in good condition at the close of the month. There were no severe or destructive storms.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 88 stations, was 32.2°; or 1.1° above the December normal. The highest monthly mean was 38.2°, at Philadelphia Weather Bureau, and the lowest 27.6°, at Gouldsboro and Montrose. The highest recorded during the month was 70°, at Hanover on the 14th, and the lowest was -9°, at Brookville on the 1st. The greatest daily range of temperature was 44°, at Brookville on the 13th.

## PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, computed from reports of 133 well-distributed stations, was 2.77 inches, which is 0.46 inch less than the normal for the month. The greatest monthly amount was 4.95 inches at Clearfield, and the least 1.21 inches at Newell. The greatest amount recorded in any 24 consecutive hours was 1.60 inches at Shawmont on the 18th.

Snowfall averaged 10.0 inches, compared with a December normal of 9.2. The greatest total snowfall for the month was 18.5 inches at Elk Lick, while the greatest 24-hour fall, 9.5 inches, occurred at Emporium on the 23d.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |          |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |          |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | *Highest | Direction |
| Erie.....         | 8.3                     | 284.5                    | 3                      | 78               | 77       | 76      | 10,599                   | 14.2                        | 42       | sw.       |
| Harrisburg.....   | 99.8                    | 290.6                    | 34                     | 72               | 63       | 70      | 8,756                    | 5.0                         | 22       | sw.       |
| Philadelphia..... | 121.1                   | 290.6                    | 42                     | 74               | 67       | 68      | 8,127                    | 10.9                        | 37       | ne.       |
| Pittsburgh.....   | 55.7                    | 287.3                    | 19                     | 84               | 79       | 75      | 7,683                    | 10.3                        | 34       | nw.       |
| Reading.....      | 100.2                   | 290.6                    | 34                     | 78               | 66       | 71      | 3,598                    | 4.8                         | 19       | w.        |
| Scranton.....     | 57.9                    | 287.3                    | 20                     | 82               | 74       | 77      | 4,558                    | 6.1                         | 23       | sw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR DECEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 32.5        | 62      | -10    | 3.14          | 5.57     | 1.44  | 8           | 8             | 15     | 9                      |
| 1889..... | 39.6        | 73      | 0      | 2.77          | 5.05     | 0.85  | 11          | 9             | 11     | 12                     |
| 1890..... | 27.2        | 59      | -11    | 3.97          | 9.68     | 1.72  | 7           | 8             | 16     | 12                     |
| 1891..... | 38.4        | 68      | -3     | 4.09          | 6.53     | 2.00  | 12          | 8             | 11     | 10                     |
| 1892..... | 27.8        | 70      | -13    | 1.69          | 4.37     | 0.40  | 7           | 9             | 15     | 9                      |
| 1893..... | 32.2        | 70      | -7     | 3.06          | 6.07     | 1.41  | 6           | 11            | 14     | 12                     |
| 1894..... | 32.4        | 66      | -28    | 3.95          | 5.93     | 2.27  | 10          | 9             | 12     | 10                     |
| 1895..... | 34.2        | 70      | -10    | 3.22          | 6.55     | 1.40  | 10          | 9             | 12     | 7                      |
| 1896..... | 30.6        | 67      | -13    | 1.20          | 2.62     | 0.40  | 10          | 9             | 12     | 6                      |
| 1897..... | 33.0        | 73      | -6     | 3.95          | 6.25     | 1.28  | 6           | 8             | 17     | 12                     |
| 1898..... | 29.8        | 68      | -11    | 2.98          | 4.79     | 1.31  | 10          | 8             | 13     | 10                     |
| 1899..... | 31.5        | 73      | -11    | 3.04          | 6.00     | 1.18  | 10          | 10            | 11     | 10                     |
| 1900..... | 31.2        | 65      | -2     | 2.08          | 4.16     | 0.40  | 8           | 9             | 14     | 7                      |
| 1901..... | 29.1        | 77      | -18    | 5.91          | 10.26    | 2.62  | 7           | 9             | 15     | 11                     |
| 1902..... | 28.4        | 68      | -12    | 5.54          | 8.51     | 1.97  | 7           | 7             | 17     | 14                     |
| 1903..... | 25.4        | 60      | -14    | 2.66          | 4.83     | 0.92  | 8           | 9             | 14     | 9                      |
| 1904..... | 25.8        | 71      | -19    | 2.48          | 3.71     | 1.32  | 7           | 7             | 17     | 11                     |
| 1905..... | 33.6        | 65      | -5     | 3.57          | 5.48     | 0.95  | 10          | 7             | 14     | 8                      |
| 1906..... | 30.8        | 67      | -14    | 3.97          | 7.08     | 1.69  | 5           | 5             | 21     | 14                     |
| 1907..... | 33.2        | 68      | -8     | 4.30          | 7.89     | 1.85  | 7           | 8             | 16     | 12                     |
| 1908..... | 32.0        | 74      | -2     | 2.86          | 4.61     | 1.26  | 9           | 8             | 14     | 10                     |
| 1909..... | 27.0        | 71      | -10    | 3.39          | 8.50     | 1.19  | 9           | 8             | 14     | 8                      |
| 1910..... | 24.4        | 68      | -14    | 2.65          | 4.41     | 0.64  | 8           | 8             | 17     | 12                     |
| 1911..... | 36.3        | 70      | 5      | 3.27          | 5.99     | 0.75  | 7           | 6             | 19     | 13                     |
| 1912..... | 34.4        | 74      | -8     | 3.27          | 6.48     | 1.70  | 9           | 7             | 15     | 9                      |
| 1913..... | 34.2        | 66      | -7     | 2.63          | 4.11     | 0.69  | 9           | 7             | 15     | 8                      |
| 1914..... | 27.3        | 69      | -28    | 4.63          | 7.74     | 2.43  | 8           | 5             | 18     | 14                     |
| 1915..... | 29.4        | 70      | -7     | 4.06          | 6.53     | 1.36  | 6           | 8             | 17     | 12                     |
| 1916..... | 29.7        | 73      | -12    | 3.07          | 6.38     | 0.59  | 11          | 9             | 11     | 12                     |
| 1917..... | 21.5        | 52      | -28    | 1.78          | 5.16     | 0.60  | 10          | 8             | 13     | 8                      |
| 1918..... | 36.6        | 72      | -1     | 3.38          | 5.74     | 0.90  | 9           | 7             | 15     | 11                     |
| 1919..... | 25.3        | 66      | -23    | 2.61          | 4.75     | 0.95  | 9           | 8             | 14     | 11                     |
| 1920..... | 33.4        | 68      | -7     | 3.28          | 6.77     | 1.53  | 7           | 9             | 15     | 10                     |
| 1921..... | 31.6        | 66      | -11    | 2.59          | 6.25     | 0.91  | 8           | 8             | 15     | 10                     |
| 1922..... | 31.5        | 69      | -9     | 2.75          | 4.55     | 1.19  | 10          | 8             | 13     | 10                     |
| 1923..... | 39.6        | 71      | 1      | 4.99          | 8.55     | 2.42  | 9           | 7             | 15     | 14                     |
| 1924..... | 29.8        | 69      | -23    | 2.13          | 4.42     | 0.56  | 7           | 7             | 17     | 11                     |
| 1925..... | 30.7        | 62      | -15    | 1.72          | 3.93     | 0.69  | 8           | 7             | 16     | 10                     |
| 1926..... | 27.3        | 62      | -20    | 2.58          | 4.61     | 0.90  | 8           | 7             | 16     | 12                     |
| 1927..... | 32.7        | 73      | -6     | 4.41          | 8.93     | 2.16  | 9           | 6             | 16     | 13                     |
| 1928..... | 34.4        | 68      | -2     | 1.16          | 2.57     | 0.28  | 13          | 7             | 11     | 6                      |
| 1929..... | 32.2        | 70      | -9     | 2.77          | 4.95     | 1.21  | 7           | 6             | 18     | 12                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |      | Highest stage |      | Date | Lowest stage |  | Date | Flood stage |
|-------------------|-------------------|------------|------|---------------|------|------|--------------|--|------|-------------|
|                   |                   |            |      |               |      |      |              |  |      |             |
| Port Jervis.....  | Delaware.....     | 3.9        | 6.9  | 20            | 2.7  | 1    | 18           |  |      |             |
| Phillipsburg..... | Delaware.....     | 3.8        | 8.0  | 25            | 1.8  | 10   | 22           |  |      |             |
| Mauch Chunk.....  | Lehigh.....       | -2.2       | -1.1 | 19            | -2.6 | 2    | 12           |  |      |             |
| Wilkes-Barre..... | Susquehanna.....  | 6.0        | 12.9 | 20            | 2.6  | 3    | 20           |  |      |             |
| Williamsport..... | Susquehanna.....  | 4.3        | 9.5  | 20            | 2.1  | 3    | 20           |  |      |             |
| Harrisburg.....   | Susquehanna.....  | 6.2        | 8.5  | 21            | 4.9  | 1    | 17           |  |      |             |
| Greensboro.....   | Monongahela.....  | 13.5       | 19.0 | 15            | 11.4 | 5    | 30           |  |      |             |
| West Newton.....  | Youghiogheny..... | 3.3        | 5.9  | 14            | 1.8  | 26   | 20           |  |      |             |
| Lock No. 4.....   | Monongahela.....  | 16.0       | 21.1 | 15            | 14.0 | 2    | 31           |  |      |             |
| Pittsburgh.....   | Ohio.....         | 13.9       | 18.4 | 20            | 11.0 | 2    | 25           |  |      |             |
| Beaver Dam.....   | Ohio.....         | 12.0       | 19.7 | 20            | 8.1  | 1    | 30           |  |      |             |



## Climatological Data for December, 1929

| Stations                 | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                 |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                              |
|--------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|-----------------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|------------------------------|
|                          |                   |                 |                         | Mean                         | Departure from the normal | Highest         | Date            | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                       |
| Atlantic Drainage.       |                   |                 |                         |                              |                           |                 |                 |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Allentown.....           | Lehigh.....       | 254             | 17                      | 30.5                         |                           | 58              | 14              | 10     | 1    | 28                       | 2.86  | -0.99                     | 0.62                 | 8.5                       | 9                            | 12    | 11                           | 8         | ne.        | John A. Frick.               |
| Altoona.....             | Blair.....        | 1,615           | 42                      | 32.6                         | +3.6                      | 56              | 14              | 4      | 1    | 26                       | 2.74  | +0.39                     | 0.97                 | 10.5                      | 11                           | 15    | 5                            | 11        | w.         | F. E. Rooney.                |
| Arendtsville.....        | Adams.....        | 700             | 5                       | 33.4                         |                           | 67              | 14              | 7      | 1    | 38                       | 2.25  |                           | 0.74                 | 11.5                      | 7                            | 11    | 4                            | 16        | nw.        | Dr. S. W. Frost.             |
| Bellefonte.....          | Center.....       | 1,050           | 24                      | 30.3                         |                           | 57              | 19              | 2      | 1    | 31                       | 1.96  | -0.94                     | 0.54                 | 5.9                       | 12                           | 1     | 6                            | 24        | w.         | U. S. Weather Bureau.        |
| Bethlehem.....           | Northampton.....  | 364             | 45                      | 32.8                         | -0.3                      | 60              | 14              | 13     | 1    | 30                       | 2.44  | -1.06                     | 0.58                 | 8.8                       | 12                           | 8     | 5                            | 18        | w.         | Lehigh University.           |
| Carlisle.....            | Cumberland.....   | 467             | 62                      | 31.6                         | +0.3                      | 66              | 15              | 8      | 1    | 32                       | 2.38  | -0.63                     | 0.62                 | 13.0                      | 9                            | 13    | 2                            | 16        | ne.        | Prof. C. E. Miller.          |
| Catawissa.....           | Columbia.....     | 520             | 32                      | 30.8                         | -0.8                      | 60              | 15              | 4      | 4    | 28                       | 2.54  | -0.46                     | 0.90                 | 14.0                      | 10                           | 15    | 3                            | 13        |            | H. H. Yetter.                |
| Center Hall.....         | Center.....       | 1,272           | 33                      | 31.7                         | +2.7                      | 58              | 9               | 9      | 4    | 38                       | 1.69  | -1.06                     | 0.52                 | 7.5                       | 7                            | 10    | 4                            | 17        |            | S. W. Smith.                 |
| Chambersburg.....        | Franklin.....     | 580             | 29                      | 32.9                         | 0.0                       | 66              | 14              | 8      | 1    | 34                       | 2.17  | -0.45                     | 0.63                 | 10.9                      | 13                           | 8     | 9                            | 14        | sw.        | William B. Spear.            |
| Clearfield.....          | Clearfield.....   | 1,120           | 19                      | 31.6                         | +2.9                      | 54              | 14              | 0      | 1    | 30                       | 4.95  | +1.86                     | 1.27                 | 17.0                      | 11                           | 3     | 5                            | 23        | se.        | E. W. Hess.                  |
| Coatesville.....         | Chester.....      | 380             | 41                      | 33.3                         | +0.3                      | 64              | 15              | 11     | 1    | 39                       | 2.57  | -1.65                     | 0.81                 | 8.8                       | 10                           | 9     | 9                            | 13        | ne.        | Prof. W. T. Gordon.          |
| Colebrook.....           | Lebanon.....      | 560             | 19                      | 31.4                         | -0.5                      | 61              | 15              | 6      | 4    | 28                       | 2.58  | -0.87                     | 0.71                 | 10.2                      | 13                           | 12    | 2                            | 17        | w.         | Wm. A. Rorer.                |
| Emporium.....            | Cameron.....      | 1,050           | 41                      | 30.2                         | +1.1                      | 52              | 18              | 5      | 1    | 29                       | 3.93  | +0.67                     | 0.95                 | 14.7                      | 14                           | 3     | 8                            | 20        | w.         | T. B. Lloyd.                 |
| Epurata.....             | Lancaster.....    | 380             | 28                      | 33.6                         | +2.3                      | 62              | 15              | 12     | 1    | 37                       | 2.22  | -1.29                     | 0.55                 | 11.2                      | 13                           | 7     | 8                            | 16        | ne.        | Ira J. Keath.                |
| Freeland.....            | Luzerne.....      | 1,970           | 14                      | 30.0                         |                           | 55              | 15              | 4      | 1    | 42                       | 3.62  |                           | 0.67                 | 17.8                      | 15                           | 4     | 7                            | 20        | nw.        | Theo. Reichmann.             |
| George School.....       | Bucks.....        | 190             | 22                      | 33.6                         | +1.3                      | 64              | 14              | 11     | 2    | 38                       | 3.30  | -0.51                     | 1.36                 | 4.8                       | 9                            | 14    | 6                            | 11        | w.         | Prof. N. W. Swayne.          |
| Gettysburg.....          | Adams.....        | 553             | 55                      | 34.6                         | +2.9                      | 68              | 15              | 10     | 1    | 33                       | 2.43  | -0.90                     | 0.79                 | 13.5                      | 13                           | 9     | 6                            | 16        | s.         | Dr. Henry Stewart.           |
| Gordon.....              | Schuylkill.....   | 840             | 25                      | 30.6                         | +2.1                      | 60              | 15              | 0      | 4    | 38                       | 3.42  | -0.85                     | 0.60                 | 12.5                      | 11                           | 15    | 3                            | 13        | w.         | Capt. J. G. Johnson.         |
| Gouldsboro.....          | Wayne.....        | 1,875           | 5                       | 27.6                         |                           | 51              | 18              | 4      | 1    | 34                       | 2.76  | -0.35                     | 0.55                 | 10.3                      | 13                           | 9     | 7                            | 15        | sw.        | Gustav Holtz.                |
| Hamburg.....             | Berks.....        | 585             | 36                      | 30.2                         | -1.8                      | 60              | 14              | 10     | 4    | 32                       | 1.93  | -1.92                     | 0.50                 | 8.0                       | 9                            | 12    | 11                           | 8         | w.         | State Sanatorium.            |
| Hanover.....             | York.....         | 600             | 25                      | 37.0                         | +3.2                      | 70              | 14              | 10     | 4    | 38                       | 2.32  | -1.06                     | 0.71                 | 11.0                      | 13                           | 13    | 4                            | 14        | w.         | Thomas Y. Cooper.            |
| Harrisburg.....          | Dauphin.....      | 361             | 59                      | 33.4                         | +0.7                      | 63              | 15              | 13     | 4    | 28                       | 2.40  | -0.62                     | 0.78                 | 10.2                      | 10                           | 4     | 9                            | 18        | sw.        | U. S. Weather Bureau.        |
| Hawley.....              | Wayne.....        | 900             | 10                      | 29.0                         |                           | 51              | 7               | 6      | 12   | 32                       | 3.00  |                           | 0.62                 | 9.9                       | 13                           | 5     | 13                           | 13        | e.         | Mrs. Della M. Pennell.       |
| Holtwood.....            | Lancaster.....    | 200             | 14                      | 34.2                         |                           | 68              | 16              | 14     | 1    | 33                       | 1.74  | -0.75                     | 0.41                 | 8.0                       | 10                           | 9     | 5                            | 17        | w.         | H. W. Lowy, C. E.            |
| Huntingdon.....          | Huntingdon.....   | 650             | 41                      | 34.1                         | +2.6                      | 59 <sup>d</sup> | 14              | 7      | 1    | 35 <sup>d</sup>          | 2.22  | -0.86                     | 0.51                 | 7.8                       | 11                           | 8     | 9                            | 14        | w.         | Prof. H. A. Conner.          |
| Hyndman.....             | Bedford.....      | 977             | 18                      | 36.0                         | +3.9                      | 67              | 15              | 5      | 1    | 36                       | 1.62  | -1.25                     | 0.45                 | 6.7                       | 12                           | 8     | 4                            | 19        | .....      | Horace A. Sheavly.           |
| Kylertown.....           | Clearfield.....   | 1,637           | .....                   | 28.6                         |                           | 52              | 18              | -5     | 1    | 31                       | 2.00  |                           | 0.90                 | 9.5                       | 5                            | 4     | 3                            | 24        | w.         | U. S. Bureau Plant Industry. |
| Lancaster.....           | Lancaster.....    | 255             | 41                      | 32.8                         | -0.6                      | 67              | 15              | 8      | 1    | 42                       | 1.83  | -1.58                     | 0.55                 | 8.5                       | 8                            | 16    | 3                            | 12        | w.         | Supt. of Water Works.        |
| Lawrenceville.....       | Tioga.....        | 1,000           | 31                      | 28.8                         | +1.4                      | 57              | 18              | 5      | 12   | 33                       | 2.19  | +0.06                     | 1.10                 | 11.5                      | 10                           | 6     | 6                            | 19        | .....      | C. P. Darling.               |
| Lebanon.....             | Lebanon.....      | 469             | 84                      | 33.4                         | +1.5                      | 63              | 15              | 10     | 1    | 39                       | 2.58  | -1.04                     | 0.51                 | 11.3                      | 13                           | 16    | 6                            | 9         | sw.        | S. B. Benzing.               |
| Lewisburg.....           | Union.....        | 450             | 54                      | 31.6                         | +2.6                      | 61              | 19              | 8      | 1    | 27                       | 3.05  | -0.21                     | 0.80                 | 14.5                      | 11                           | 8     | 7                            | 16        | w.         | Prof. W. G. Owens.           |
| Lock Haven.....          | Clinton.....      | 560             | 39                      | 32.6                         | +1.5                      | 55              | 15              | 9      | 1    | 26                       | 2.49  | -0.60                     | 0.42                 | 8.0                       | 12                           | 2     | 10                           | 19        | ne.        | Joseph Beaver.               |
| Lykens.....              | Dauphin.....      | 680             | 14                      | 32.6                         | +1.9                      | 64              | 19              | 7      | 1    | 43                       | 2.31  | -0.72                     | 0.66                 | 13.0                      | 12                           | 14    | 6                            | 11        | nw.        | Susquehanna Collieries Co.   |
| Mauch Chunk.....         | Carbon.....       | 600             | 38                      | 30.4                         | -0.1                      | 58              | 15              | 9      | 1    | 38                       | 3.06  | -1.18                     | 0.56                 | 11.2                      | 11                           | 9     | 6                            | 16        | nw.        | R. K. Wintermute.            |
| Middletown.....          | Juniata.....      | 445             | 25                      | 31.4                         | +1.2                      | 61              | 19              | 11     | 1    | 28                       | 2.13  | -0.95                     | 0.43                 | 10.2                      | 12                           | 7     | 1                            | 23        | w.         | Wellington Smith.            |
| Montrose.....            | Susquehanna.....  | 1,720           | 26                      | 27.6                         | +2.0                      | 51              | 19 <sup>†</sup> | 3      | 12   | 39                       | 3.75  | +1.05                     | 0.85                 | 9.0                       | 9                            | 3     | 4                            | 24        | s.         | Silas Jagger.                |
| Mt. Pocono.....          | Monroe.....       | 1,658           | 25                      | 29.0                         | +4.0                      | 54              | 14              | 5      | 1    | 20                       | 3.45  | -0.38                     | 0.80                 | 14.5                      | 13                           | 4     | 8                            | 19        | nw.        | Cecil J. Hoskinson.          |
| Muncy Valley.....        | Sullivan.....     | 1,045           | 17                      | 29.5                         | +1.8                      | 58              | 19              | 1      | 4    | 28                       | 3.31  | +0.29                     | 0.83                 | 10.8                      | 10                           | 9     | 6                            | 16        | nw.        | H. O. Hacker.                |
| Narberth.....            | Montgomery.....   | 300             | 10                      | 34.0                         |                           | 64              | 15 <sup>†</sup> | 12     | 1    | 33                       | 3.15  |                           | 1.54                 | 5.0                       | 11                           | 3     | 17                           | 17        | sw.        | Charles Decker.              |
| Neshaminy Falls.....     | Bucks.....        | 60              | 40                      | 32.0                         | +0.2                      | 64              | 15 <sup>†</sup> | 7      | 1    | 39                       | 2.32  |                           | 0.64                 | 2.5                       | 7                            | 12    | 2                            | 17        | s.         | North Springfield Water Co.  |
| Palmerton.....           | Carbon.....       | 398             | 12                      | 31.6                         |                           | 58              | 15              | 11     | 4    | 25                       | 1.32  |                           | 0.30                 | 10.7                      | 11                           | 0     | 9                            | 22        | n.         | New Jersey Zinc Co.          |
| Philadelphia.....        | Philadelphia..... | 114             | 58                      | 38.2                         | +1.9                      | 65              | 19              | 16     | 1    | 26                       | 2.98  | -0.45                     | 1.37                 | 2.8                       | 8                            | 6     | 9                            | 16        | sw.        | U. S. Weather Bureau.        |
| Philadelphia-Gtn.....    | Philadelphia..... | 113             | 5                       | 36.8                         |                           | 64              | 19              | 16     | 1    | 33                       | 2.94  |                           | 1.17                 | 4.0                       | 10                           | 8     | 6                            | 16        | .....      | Julius Bernstein.            |
| Phila. Navy Yard.....    | Philadelphia..... | 12              | 13                      | 36.1                         | +1.1                      | 61              | 14 <sup>†</sup> | 14     | 1    | 27                       | 2.50  | -0.78                     | 1.14                 | 2.4                       | 10                           | 5     | 12                           | 14        | sw.        | Commandant, Navy Yard.       |
| Phila. Point Breeze..... | Philadelphia..... | 90              | 4                       | 36.8                         |                           | 67              | 19              | 17     | 1    | 29                       | 3.17  |                           | 1.33                 | 5.3                       | 9                            | 10    | 7                            | 14        | w.         | Atlantic Refining Co.        |
| Phoenixville.....        | Chester.....      | 100             | 18                      | 34.0                         | +0.7                      | 64              | 15 <sup>†</sup> | 9      | 4    | 37                       | 2.93  | -0.29                     | 1.15                 | 10.8                      | 9                            | 15    | 10                           | 6         | w.         | North Springfield Water Co.  |
| Quakertown.....          | Bucks.....        | 496             | 44                      | 31.2                         | +0.1                      | 59              | 15              | 5      | 26   | 36                       | 2.92  | -0.62                     | 1.08                 | 8.8                       | 11                           | 8     | 6                            | 17        | sw.        | John E. Benner.              |
| Reading.....             | Berks.....        | 325             | 59                      | 34.0                         | +1.8                      | 62              | 15              | 14     | 1    | 28                       | 2.51  | -1.05                     | 0.76                 | 11.0                      | 11                           | 6     | 8                            | 17        | w.         | U. S. Weather Bureau.        |
| Scranton.....            | Lackawanna.....   | 805             | 34                      | 32.1                         | +1.4                      | 60              | 19              | 11     | 1    | 26                       | 3.25  | +0.23                     | 0.79                 | 9.7                       | 15                           | 0     | 8                            | 23        | sw.        | U. S. Weather Bureau.        |
| Selinsgrove.....         | Snyder.....       | 455             | 39                      | 32.3                         | +0.9                      | 60              | 14 <sup>†</sup> | 10     | 1    | 28                       | 3.25  | +0.04                     | 0.80                 | 12.5                      | 9                            | 8     | 8                            | 15        | sw.        | Dr. George E. Fisher.        |
| Shawmont.....            | Philadelphia..... | 51              | 33                      | 34.4                         |                           | 63              | 19              | 15     | 1    | 33                       | 3.02  | -0.87                     | 1.60                 | 6.5                       | 10                           | 9     | 6                            | 16        | w.         | W. S. Guiles.                |
| State College.....       | Center.....       | 1,217           | 44                      | 31.4                         | +1.8                      | 55              | 14 <sup>†</sup> | 3      | 1    | 25                       | 2.34  | -0.37                     | 0.64                 | 6.8                       | 11                           | 2     | 9                            | 20        | w.         | C. A. Kern.                  |
| Stroudsburg.....         | Monroe.....       | 500             | 13                      | 29.6                         | +0.2                      | 58              | 15              | 7      | 12   | 32                       | 2.35  | -1.37                     | 0.81                 | 12.0                      | 8                            | 7     | 7                            | 17        | sw.        | State Normal School.         |
| Towanda.....             | Bradford.....     | 754             | 34                      | 29.8                         | +1.2                      | 51              | 7               | 7      | 12   | 28                       | 2.46  | +0.09                     | 0.62                 | 11.0                      | 14                           | 2     | 5                            | 24        | sw.        | Hiram E. Bull, C. E.         |
| Wellsboro.....           | Tioga.....        | 1,419           | 63                      | 28.2                         | 0.0                       | 51              | 7               | 9      | 11   | 28                       | 2.46  | -0.14                     | 0.79                 | 9.0                       | 9                            | 19    | 4                            | 8         | w.         | George W. Hill.              |
| West Chester.....        | Chester.....      | 455             | 91                      | 35.0                         | +2.0                      | 64              | 15              | 12     | 1    | 37                       | 3.22  | -0.87                     | 1.36                 | 6.0                       | 8                            | 13    | 5                            | 13        | nw.        | Joseph W. Belt.              |
| Williamsport.....        | Lycoming.....     | 521             | 42                      | 31.3                         | +0.8                      | 56              | 19              | 11     | 1    | 23                       | 2.93  | -0.12                     | 0.84                 | 8.5                       | 12                           | 12    | 2                            | 17        | w.         | Miss Veronica E. April.      |
| York.....                | York.....         | 400             | 41                      | 33.6                         | +0.8                      | 69              | 14              | 5      | 4    | 38                       | 2.09  | -1.05                     | 0.64                 | 12.0                      | 10                           | 12    | 6                            | 13        | w.         | York Water Co.               |
| Ohio Drainage.           |                   |                 |                         |                              |                           |                 |                 |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Beaver Dam.....          | Beaver.....       | 700             | 36                      | 32.6                         | -0.6                      | 59              | 17 <sup>†</sup> | 4      | 1    | 23                       | 2.57  | -0.15                     | 0.43                 | 9.2                       | 14                           | 2     | 3                            | 26        | sw.        | U. S. Engineer.              |
| Bradford.....            | McKean.....       | 1,460           | 14                      | 31.0                         | +3.0                      | 54              | 14 <sup>†</sup> | 10     | 1    | 28                       | 3.73  | +0.60                     | 0.88                 | 12.5                      | 13                           | 2     | 8                            | 21        | s.         | Supt. Timber Pres. Plant.    |
| Brookville.....          | Jefferson.....    | 1,173           | 38                      | 28.8                         | +0.9                      | 57              | 14              | -9     | 1    | 44                       | 3.36  | +0.53                     | 0.66                 | 11.5                      | 13                           | 11    | 7                            | 13        | s.         | John Fawcett.                |
| Butler.....              | Butler.....       | 1,152           | 4                       | 31.6                         |                           |                 |                 |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |



## Daily Precipitation for December, 1929

| Stations           | Drainage Basin | Day of month |     |     |     |   |   |     |     |     |    |     |     |     |     |     |    |      |     |      |     |    |     |      |     |     |     |    |     |     |     |     | Total |
|--------------------|----------------|--------------|-----|-----|-----|---|---|-----|-----|-----|----|-----|-----|-----|-----|-----|----|------|-----|------|-----|----|-----|------|-----|-----|-----|----|-----|-----|-----|-----|-------|
|                    |                | 1            | 2   | 3   | 4   | 5 | 6 | 7   | 8   | 9   | 10 | 11  | 12  | 13  | 14  | 15  | 16 | 17   | 18  | 19   | 20  | 21 | 22  | 23   | 24  | 25  | 26  | 27 | 28  | 29  | 30  | 31  |       |
| Atlantic Drainage. |                |              |     |     |     |   |   |     |     |     |    |     |     |     |     |     |    |      |     |      |     |    |     |      |     |     |     |    |     |     |     |     |       |
| Allentown          | Lehigh         |              |     | .48 |     |   |   |     | .60 |     |    |     |     | .31 | .05 |     |    | .04  |     | .37  | T.  |    | T.  | T.   | .62 |     |     |    | .10 | .29 | T.  | T.  | 2.86  |
| Altoona            | Juniata        | .13          |     |     |     |   |   | T.  | .15 | T.  |    | T.  | .08 | .97 | .07 |     |    | .03  | .26 | .63  |     |    |     | .30  | .04 |     |     |    |     | T.  | .08 |     | 2.74  |
| Ansonia            | W. Br. Susq.   |              |     | T.  |     |   |   |     | .16 |     |    |     | *   | .40 | .14 |     |    | .14  | .41 | .70  | T.  |    |     | .10  | .37 |     |     |    |     |     | .01 |     | 2.43  |
| Arendtsville       | Lower Susq.    | .74          |     |     |     |   |   |     |     |     |    | T.  | *   | .30 |     |     |    | .42  |     |      |     |    |     | .56  |     |     |     |    | .18 |     | .05 |     | 2.25  |
| Baker's Summit     | Juniata        | .08          |     |     |     |   |   |     | .13 |     |    |     | .15 | .82 | .17 |     |    | .05  | .23 | .39  |     |    |     | .57  |     |     |     |    | .08 |     |     |     | 2.67  |
| Belleville         | W. Br. Susq.   | .03          | T.  | T.  |     |   |   |     | .10 | .03 |    | T.  | T.  | .22 | .23 | .01 |    | T.   | .20 | .18  | .54 | T. | T.  | T.   | .40 | T.  | .01 |    | T.  | .01 | T.  |     | 1.96  |
| Bethlehem          | Lehigh         | .45          | T.  |     |     |   |   |     | .02 |     |    | T.  | T.  | .32 | .04 |     |    | .08  | .26 | .24  |     |    |     | .45  | .13 |     | .01 |    | .38 | .04 | .03 |     | 2.44  |
| Bloersville        | Lower Susq.    | .40          |     |     |     |   |   |     |     |     |    |     | .35 |     |     |     |    | .10  | .20 |      |     |    |     | .40  |     |     |     |    | .30 |     | T.  |     | 1.75  |
| Carlisle           | Lower Susq.    | .58          |     |     |     |   |   | T.  | .08 |     |    | T.  | .28 | .26 |     |     |    | T.   | .28 | .02  | T.  |    |     | .62  |     |     | T.  |    | .24 |     | .02 |     | 2.38  |
| Catawissa          | N. Br. Susq.   | .42          |     |     |     |   |   | .06 |     |     |    |     | .17 | .30 |     |     |    | .25  | .25 | .04  |     |    |     | .90  |     |     | T.  |    | .10 |     | .05 |     | 2.54  |
| Center Hall        | Susquehanna    | .10          |     |     |     |   |   |     | .10 |     |    |     | .12 | .28 |     |     |    | .21  | .36 |      |     |    |     | .52  |     |     |     |    |     |     |     | T.  | 1.69  |
| Chambersburg       | Potomac        | .41          |     |     |     |   |   |     | .07 |     |    | T.  | .23 | .11 |     |     |    | .05  | .37 | .05  | .02 |    |     | .63  | .02 | .01 |     |    | .18 |     | .02 |     | 2.17  |
| Clearfield         | W. Br. Susq.   | .06          | T.  | T.  |     |   |   | T.  | .53 |     |    |     | .05 | .80 | .10 |     |    | .28  | .53 | 1.27 | T.  | T. |     | 1.20 | T.  |     |     |    | .08 | .05 | T.  |     | 4.95  |
| Coatesville        | Lower Del.     | .54          |     |     |     |   |   |     |     |     |    |     | .18 | .13 |     |     |    | .81  | .05 |      |     |    |     | .50  | .02 |     |     |    | .20 | .09 | .05 |     | 2.57  |
| Colebrook          | Lower Susq.    | .53          |     |     |     |   |   | .04 | .02 |     |    | *   | .60 |     |     |     | T. | .03  | .20 | .10  | T.  |    |     | *    | .71 |     |     |    | .31 | .03 | .01 |     | 2.58  |
| Conshohocken       | Schuylkill     | .27          | .11 |     |     |   |   |     |     |     |    |     | .06 | .07 | .07 |     |    | T.   | .65 | T.   | T.  |    |     | .41  | .04 |     |     |    | .08 | .37 | .05 |     | 2.18  |
| Cresskill          | Juniata        | .22          | .01 | .01 |     |   |   | .14 |     |     |    |     | .05 | .92 | .08 |     |    | .19  | .06 | .39  |     |    |     | .60  | .10 |     |     |    | .13 |     |     |     | 2.90  |
| Doylstown          | Lower Del.     | .56          |     |     |     |   |   |     |     |     |    |     | .05 | .47 |     |     |    | 1.51 | .34 |      |     |    |     | .24  | .04 |     |     |    | .24 | .01 |     |     | 3.46  |
| Driftwood          | W. Br. Susq.   |              | T.  |     | .02 |   |   |     | .30 |     |    |     |     | .10 | .55 |     |    | .32  | .35 |      |     |    |     | .10  | .55 |     |     |    | .10 | .05 | T.  |     | 2.30  |
| Emporium           | do             | .10          | T.  | T.  | .10 |   |   | .13 | .34 |     |    |     | .15 | .36 | .18 |     |    | .58  | .26 | .53  | T.  | T. | T.  | .95  | .10 |     |     |    | .10 | .05 |     |     | 3.93  |
| Ephrata            | Lower Susq.    | .54          |     |     |     |   |   | .01 |     |     |    |     | .15 | .36 | .02 |     |    | .02  | .18 | .04  |     |    |     | .55  | .02 |     |     |    | .26 | .06 | .01 |     | 2.22  |
| Forest City        | N. Br. Susq.   |              | .25 | T.  | T.  |   |   |     | .25 |     |    |     |     | .20 | .78 |     |    | .25  | .44 | .25  |     |    |     |      | .41 | T.  | T.  |    | .03 |     | T.  |     | 2.86  |
| Freeland           | Lehigh         |              | .49 |     | .02 |   |   |     | .21 |     |    | T.  |     | .53 | .22 |     |    | .16  | .15 | .25  | .28 | T. | T.  | .10  | .67 | .08 |     |    | .15 | .10 | .21 | T.  | 3.62  |
| George School      | Lower Del.     | .60          |     |     |     |   |   |     |     |     |    |     | .11 | .50 |     |     |    | 1.36 | .05 |      |     |    |     | .36  | T.  |     |     |    | .07 | .23 | .02 |     | 3.30  |
| Gettysburg         | Potomac        | .44          |     |     |     |   |   |     | .03 |     |    | T.  | .22 | .12 | T.  |     |    | .01  | .30 | .12  | .01 |    |     | .74  | .05 |     |     |    | .35 | .02 | .02 |     | 2.43  |
| Girardville        | Lower Susq.    | .61          |     | T.  |     |   |   | .11 | .11 |     |    | T.  | .04 | .04 | .33 |     |    | .07  | .27 | .24  | T.  |    |     | .38  | .18 | T.  |     |    | .38 | .05 | .02 |     | 2.83  |
| Gordon             | Lower Susq.    | .60          |     |     |     |   |   |     | .58 |     |    |     | T.  | .35 | .10 |     |    | .10  | .18 | .30  | .25 |    |     | .55  |     |     |     |    | .33 | T.  | .08 |     | 3.42  |
| Gouldsboro         | Lehigh         |              | .21 |     | .09 |   |   | .33 |     |     |    | .02 |     | .30 | .25 |     |    |      | .18 | .26  | .32 |    |     |      | .49 |     |     |    | .29 | .03 | .09 |     | 2.76  |
| Graterford         | Schuylkill     | .46          |     |     |     |   |   |     |     |     |    |     | .05 | .21 |     |     |    | .06  | .83 | .22  |     |    |     | .44  | .07 |     |     |    | .31 |     | .17 |     | 2.82  |
| Hamburg            | Schuylkill     | .50          |     |     |     |   |   | .08 |     |     |    |     | .18 | .18 |     |     |    | .08  | .36 | .21  | .22 |    |     | .20  |     |     |     |    | .10 |     |     |     | 1.93  |
| Hanover            | Lower Susq.    | .50          |     |     |     |   |   | .01 |     |     |    | .01 | .18 | .11 | .02 |     |    | T.   | .12 | .01  | T.  |    |     | .71  | .14 |     |     |    | .43 | .06 | .02 |     | 2.32  |
| Harrisburg         | do             | .44          |     |     |     |   |   | .04 |     |     |    | T.  | .28 | .36 | T.  |     |    | .05  | .15 | .05  |     |    | T.  | .78  |     |     |     |    | .23 | T.  | .02 |     | 2.40  |
| Hawley             | Upper Del.     | .27          |     | T.  |     |   |   | .12 |     |     |    | .03 |     | .52 | .50 |     |    | .07  | .30 | .20  | .21 |    |     | .62  |     |     |     |    | .04 | .11 | .01 |     | 3.00  |
| Hollisterville     | Upper Del.     | .30          | T.  | T.  |     |   |   | .14 |     |     |    | T.  | .65 | .52 |     |     |    | .16  | .07 | .22  | .24 |    |     | .76  | T.  |     |     |    | T.  | .12 | .05 | .02 | 3.25  |
| Holtwood           | Lower Susq.    | .41          |     |     |     |   |   | T.  |     |     |    |     | .13 | .03 |     |     |    | T.   | .05 | .18  | .03 |    |     | .16  | .27 |     |     |    | .17 | .31 | T.  |     | 1.74  |
| Huntingdon         | Juniata        | .09          |     |     |     |   |   | .16 |     |     |    |     | .21 | .42 | .07 |     |    | .08  | .29 | .31  | T.  |    |     | .51  |     | .02 |     |    | .06 | T.  | T.  |     | 2.22  |
| Hyndman            | Potomac        | .02          |     |     |     |   |   | T.  | .09 |     |    | .03 | .11 | .27 | .04 |     |    | .05  | .13 | .37  |     |    |     | .45  | T.  |     |     |    | .03 | T.  | .03 |     | 1.62  |
| Kylertown          | W. B. Susq.    | .20          |     |     |     |   |   |     |     |     |    |     |     | .40 | .65 |     |    | .30  |     | .50  |     |    |     | .90  |     |     |     |    | .10 |     |     |     | 2.00  |
| Lakeville          | Upper Del.     |              | .25 |     | T.  |   |   | .12 |     |     |    | .01 |     | .40 | .65 |     |    | .10  | .22 | .22  |     |    |     | .68  | T.  |     |     |    | T.  | .15 | .04 | T.  | 2.84  |
| Lancaster          | Lower Susq.    | .55          |     |     |     |   |   |     |     |     |    |     | .22 | .33 |     |     |    | .03  | .17 | .10  |     |    |     | .30  |     |     |     |    | .32 | .14 |     |     | 1.83  |
| Lansford           | Lehigh         |              | .40 |     | T.  |   |   |     |     |     |    |     | .33 | .12 |     |     |    | .07  | .07 | .29  | .39 |    |     | T.   | .41 |     |     |    | .13 | *   | .14 |     | 2.35  |
| Lawrenceville      | N. Br. Susq.   | T.           |     | T.  |     |   |   | .20 |     |     |    | .05 | .24 | .10 | T.  |     |    | .10  | .10 | .20  | .05 |    |     | 1.10 |     |     |     |    | T.  | .05 |     |     | 2.19  |
| Lebanon            | Lower Susq.    | .51          |     |     |     |   |   | .02 |     |     |    | T.  | .17 | .35 | .30 |     |    | .07  | .32 | .10  | T.  |    |     | .32  | .08 | T.  |     |    | .27 | .04 | .03 |     | 2.58  |
| Lewisburg          | W. Br. Susq.   | .30          |     |     |     |   |   |     |     |     |    | T.  | .70 | .01 |     |     |    | .36  | .30 | .47  |     |    |     | .80  |     | .05 |     |    | .05 | .01 | .06 |     | 3.05  |
| Lloyd              | do             |              |     |     |     |   |   |     |     |     |    |     | .20 | .32 | .01 |     |    | .25  | .36 | .42  | .01 |    |     | .40  | .23 | T.  |     |    | T.  | .05 |     |     | 2.49  |
| Lock Haven         | do             | .09          |     |     |     |   |   | .15 |     |     |    |     | .20 | .32 | .01 |     |    | .25  | .36 | .42  | .01 |    |     | .40  | .23 | T.  |     |    | .26 | .01 | .03 |     | 2.31  |
| Lykens             | Susquehanna    | .45          |     |     |     |   |   | .08 |     |     |    |     | .15 | .29 | .01 |     |    | .18  | .07 |      |     |    |     | .66  | .12 |     |     |    | .38 | .01 | .07 |     | 3.06  |
| Mauch Chunk        | Lehigh         | .46          |     |     |     |   |   | .13 |     |     |    |     | .05 | .52 |     |     |    | .04  | .35 | .56  |     |    |     | .46  | .04 | .02 |     |    | .38 |     | .07 |     | 2.13  |
| Midtown            | Juniata        | .29          |     |     |     |   |   | .12 |     |     |    |     | .22 | .34 | .03 |     |    | .10  | .20 | .09  | T.  |    |     | .43  | .04 | .02 |     |    | .25 |     | T.  |     |       |
| Montrose           | N. Br. Susq.   | .25          |     |     |     |   |   | .10 |     |     |    |     | .65 |     |     |     |    | .85  | .40 | .20  |     |    | .35 | .20  |     |     |     |    | .75 |     |     |     | 3.75  |
| Morris Run         | N. Br. Susq.   | .05          |     |     |     |   |   | .19 |     |     |    | .39 | .09 | .14 |     |     |    | .30  | .52 | .40  | .08 |    |     | .53  |     |     |     |    | .02 | .06 |     |     | 2.77  |
| Mount Pocono       | Upper Del.     | .40          |     | .04 |     |   |   | .30 |     |     |    |     | .80 | T.  |     |     |    | .12  | .30 | .06  | T.  |    | T.  | .60  | .10 | .03 | .10 | T. | .40 |     | .20 |     | 3.45  |
| Muncy Valley       | W. Br. Susq.   | .34          |     |     |     |   |   | .19 |     |     |    |     | .15 | .42 |     |     |    | .43  | .83 | .18  | T.  |    |     | .59  |     | .1  |     |    |     |     |     |     |       |



## Daily Precipitation for December, 1929—Continued from page 58

| Stations           | Drainage Basin    | Day of month |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |      | Total |  |
|--------------------|-------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|--|
|                    |                   | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14   | 15  | 16   | 17   | 18  | 19   | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |  |
| Ohio Drainage.     |                   |              |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |      |       |  |
| Beaver Dam\|\|\| | Ohio.....         | .12          |     |     |     |     |     | .12 |     |     |     | .01 | T.  | .43 | .19  |     |      | .19  | .43 | .36  | .02 |     |     | .30 | .10 | .05 |     |     |     | .09 | .16 |      | 2.57  |  |
| Beaver Falls\|\|\| | Beaver.....       | .09          | .02 | T.  | T.  |     |     | .13 |     |     |     | T.  | T.  | .56 | .26  |     | T.   | .40  | .53 | .37  | T.  | T.  | T.  | .26 | .04 | .03 | T.  |     |     | .06 | .08 |      | 2.83  |  |
| Bradford.....      | Allegheny.....    |              | .03 | .03 |     |     |     | .05 | .30 |     |     |     |     | .10 | .88  |     |      | .62  | .68 | .32  |     | .03 |     | .55 | .04 |     |     |     |     | .10 |     |      | 3.73  |  |
| Brookville.....    | do.....           | .10          | .02 | T.  |     |     |     | .48 |     |     |     |     |     | .66 | .32  | T.  |      | .38  | .48 | .03  | .24 | T.  | T.  | .12 | .28 | T.  |     |     |     | .20 | T.  | .05  | 3.36  |  |
| Butler.....        | Ohio.....         | .03          |     |     |     |     |     | .50 |     |     |     |     |     | .90 | .20  | .08 | T.   |      | *   | .70  | T.  |     | .20 |     | .30 | .03 |     |     |     |     | .40 |      | 3.34  |  |
| Claysville.....    | do.....           | .08          |     |     |     |     |     | .03 | .12 |     |     | T.  | .31 | .77 | .11  |     | .01  | .09  | .13 | .20  | .01 |     |     | .25 | .01 | .13 |     | .02 | .09 | .05 |     |      | 2.41  |  |
| Cloeff.....        | Allegheny.....    | T.           |     |     |     |     | .28 | .04 |     |     |     |     |     | .38 | .60  |     |      | .34  | .10 | .30  |     |     |     | .42 |     |     |     |     | .04 | .10 |     | 2.60 |       |  |
| Clymer\|\|\| | Conemaugh.....    | .10          | .10 |     |     |     | *   | .22 |     |     |     |     |     | .16 | .67  | .22 |      | .10  | .62 | .36  | T.  |     |     | .40 |     |     |     |     | .05 | .32 |     | 3.32 |       |  |
| Confluence\|\|\| | Youghiogheny..... | .05          | .10 |     |     |     |     | .08 |     |     |     |     |     | .10 | .78  | .26 |      |      | .19 | .23  |     |     |     | .25 | .10 |     |     |     | .08 | .10 | .20 | 2.52 |       |  |
| Coraopolis\|\|\| | Ohio.....         | .07          | .01 | T.  | T.  |     |     | .12 |     |     |     |     |     | .02 | .67  | .23 |      | .01  | .17 | .18  | .16 | .02 |     | .22 | .06 | .09 | .01 |     | .06 | .18 |     | 2.28 |       |  |
| Corry.....         | Allegheny.....    | .01          | .22 | .04 | .02 |     |     | .29 |     |     |     |     |     | .06 | .03  | .24 | .02  |      | .54 | .03  | .24 | .05 | .10 | .05 | .24 | .24 | .02 |     | .25 |     |     | 2.42 |       |  |
| Coudersport.....   | do.....           | .04          | .03 | .02 | .02 |     |     | .43 |     |     | T.  |     |     | .60 | .44  |     |      | .12  | .58 | .03  | .33 |     | .01 | .04 | .44 | .03 |     |     | .06 |     |     | 3.22 |       |  |
| Creekside.....     | Allegheny.....    | .08          | .02 | .05 |     |     | .02 |     |     | T.  |     |     |     | .71 | .84  |     |      | .11  | .26 | .29  |     |     |     | .35 | .04 | .02 |     |     | .05 | .09 |     | 2.43 |       |  |
| Derry.....         | Conemaugh.....    | .20          |     |     | T.  |     | .04 |     |     |     |     |     |     | .40 | 1.01 | .05 |      | .07  | .30 | .60  | T.  |     |     | .31 | .03 | .05 |     |     | .15 | .10 |     | 3.36 |       |  |
| Donora\|\|\| | Monongahela.....  | .10          | T.  |     | T.  |     |     | T.  |     | *   |     | *   |     | .15 | .55  | .45 | *    | .05  | .25 | .20  | T.  | T.  |     | .38 | T.  | .01 | T.  | T.  | *   |     |     | 2.28 |       |  |
| Ebensburg.....     | Conemaugh.....    | .10          | .20 |     |     |     |     |     |     |     |     |     |     | .10 | .80  |     |      |      | .35 | .40  | T.  | T.  | T.  | .30 | .20 |     |     |     | .30 | .10 |     | 2.85 |       |  |
| Elk Lick.....      | Youghiogheny..... | .05          | .05 | .05 |     |     |     |     |     |     | .05 |     |     | .13 | .35  |     |      |      | .20 | .30  |     |     |     | .60 | .30 | .20 |     |     | .40 | .20 |     | 4.13 |       |  |
| Falls Creek.....   | Allegheny.....    | *            | *   | .09 |     |     | .39 |     |     |     |     |     |     | .76 | .08  |     |      | .58  | .47 | .64  |     |     |     | *   | .41 |     |     |     | .09 |     |     | 3.51 |       |  |
| Franklin\|\|\| | Allegheny.....    | .10          | T.  | .04 | T.  |     |     | .29 |     |     |     |     |     | .64 | .06  |     |      | .49  | .42 | .48  | .03 | T.  |     | .16 | .18 | .08 |     |     | .03 | .11 |     | 3.11 |       |  |
| Freeport\|\|\| | do.....           | .04          | .01 | T.  | T.  |     | T.  | .24 |     |     | .02 |     |     | .69 | .48  |     | T.   | .23  | .22 | .17  | T.  | T.  | T.  | .20 | .10 | .05 | .01 |     | .07 | .14 |     | 2.67 |       |  |
| Greensboro.....    | Monongahela.....  | .08          | .04 | T.  |     |     | .10 |     |     | T.  |     |     |     | .12 | .52  | .47 |      | .02  | .17 | .40  | T.  |     |     | .22 | .02 | T.  |     | .12 | .03 | .10 |     | 2.43 |       |  |
| Greensburg.....    | Youghiogheny..... | .12          | .06 | T.  |     |     | .06 | .03 |     |     |     |     |     | .43 | 1.01 | .12 | T.   | .06  | .43 | .33  | .01 |     |     | .47 | .04 | .10 |     |     | .05 | .21 | .19 | 3.72 |       |  |
| Greenville.....    | Beaver.....       | T.           | .21 | .02 | T.  |     | T.  |     | .18 |     |     |     |     | .65 | .22  |     | T.   | .97  | .07 | .16  | .05 | .25 |     | .21 | .04 | .08 |     |     | .15 | .26 |     | 3.52 |       |  |
| Grove City.....    | Beaver.....       | .15          | .03 | .01 | T.  |     | T.  | .22 |     |     |     |     |     | .12 | .62  | .01 |      | .30  | .30 | .42  | T.  | T.  | T.  | .20 | .04 | .07 |     |     | .15 | .18 |     | 2.82 |       |  |
| Herrs Isl. Dam\|\|\| | Ohio.....         | .04          | .01 |     |     |     | .10 |     |     | T.  |     |     |     | .45 | .31  |     |      | .10  | .09 | .12  | T.  | T.  |     | .30 | .13 | .19 | .01 |     | .06 | .09 |     | 2.01 |       |  |
| Ingram.....        | Ohio.....         | .09          | .01 | T.  |     |     | .11 | .04 |     | T.  |     |     |     | .38 | .68  | .02 | T.   | .14  | .11 | .01  | T.  | T.  |     | .52 | T.  | .13 |     |     | .08 | .12 |     | 2.44 |       |  |
| Irwin.....         | Youghiogheny..... | .10          | T.  |     |     |     | .10 | .04 |     |     |     |     |     | .42 | 1.05 | .06 |      | .07  | .22 | .13  | T.  |     |     | .28 | T.  | T.  |     | .12 | .20 | .10 |     | 2.89 |       |  |
| Johnstown.....     | Conemaugh.....    | .15          | .08 | .02 |     | .05 | .11 |     |     | .01 |     |     |     | .55 | 1.28 | .02 |      | .06  | .25 | .25  | T.  | T.  |     | .45 | .10 | T.  |     | .03 | .15 | .12 | .02 | 3.70 |       |  |
| Kregar             | Youghiogheny..... | \$           | \$  | \$  | \$  | \$  | \$  | \$  | \$  | T.  | .02 |     |     | .45 | .40  | .03 | T.   | .30  | .34 | T.   | T.  |     | .24 | .17 | .02 | .02 |     | .06 | .14 | .19 | .08 | \$   |       |  |
| Lock No. 4\|\|\| | Monongahela.....  | .07          | T.  | T.  |     |     | .10 |     |     | T.  |     |     |     | .08 | .41  | .32 | .01  |      | .05 | .28  | .17 | .01 |     | .82 | .12 | .04 | .03 |     | .02 | .07 | .16 |      | 2.26  |  |
| Lycippus.....      | Conemaugh.....    | .14          | .11 |     |     |     | .36 |     |     |     |     |     |     | .50 | .79  | .02 |      |      | .17 | .37  |     |     |     | .38 | .22 | .01 |     |     | .26 | .20 |     | 3.53 |       |  |
| Meadville.....     | Allegheny.....    | .20          | .05 | .10 |     |     | .24 |     |     |     |     |     |     | .05 | .33  | T.  | T.   |      | .64 | .33  | .72 | .10 | .05 |     | .05 | .05 |     |     | .12 | .18 |     | 3.26 |       |  |
| Mount Lebanon..... | Ohio.....         | .06          | .01 |     |     |     | .11 | .04 |     |     |     |     |     | .47 | 1.05 | T.  | T.   |      | .08 |      |     |     |     | .21 | .01 |     |     |     | .21 | .14 |     | 2.39 |       |  |
| New Castle\|\|\| | Beaver.....       | .30          | .15 | .05 | .02 |     | .26 | .01 |     | T.  |     |     |     | .79 | .10  | .10 |      | .24  | .22 | .55  | .05 | .01 | T.  | .35 | .07 | .05 | .03 |     | .12 | .32 | .02 | 3.81 |       |  |
| Newell.....        | Monongahela.....  |              |     |     |     |     |     |     |     |     |     |     |     | .20 | .32  | .06 |      |      | .28 | .20  |     |     |     | .10 |     | .05 |     |     |     |     |     | 1.21 |       |  |
| Parkers Landing\|\|\| | Allegheny.....    | .15          | .10 | T.  |     |     | .43 |     |     |     |     |     |     | .73 | .17  | T.  | T.   | .38  | .68 | .33  | T.  | T.  | T.  | .30 | .20 | .05 | T.  |     | .10 | .40 |     | 4.02 |       |  |
| Pennline\|\|\| | Beaver.....       | T.           | .14 | .04 | .01 | .07 |     | .30 |     |     |     |     |     | .32 | .06  | .03 | .01  | .30  | .51 | .59  | .01 | T.  | .02 | .12 | .04 | .07 | .03 |     | T.  | .09 | .30 |      | 3.06  |  |
| Pittsburgh***      | Ohio.....         | .11          | .01 | T.  |     |     | .11 |     |     | T.  |     |     |     | .42 | .44  | T.  | T.   | .13  | .04 | .11  | T.  | T.  | .06 | .36 | .03 | .09 |     | T.  | T.  | .10 | .14 |      | 2.15  |  |
| Ridgway.....       | Allegheny.....    | .08          | .02 |     | .03 |     | .40 |     |     |     |     |     |     | .60 | .08  | .01 |      | .20  | .47 | .45  | .07 | T.  | T.  | .18 | .16 | T.  |     |     | .02 | .08 |     | 2.85 |       |  |
| Saltsburg\|\|\| | Conemaugh.....    | .13          | .03 | .02 |     |     | .07 |     |     |     |     |     |     | .01 | .63  | .42 |      | .08  | .30 | .36  | .03 | .01 |     | .38 | .16 | .05 | .05 |     | .02 | .09 | .22 | 3.06 |       |  |
| Sharon\|\|\| | Beaver.....       | .13          | .02 |     |     |     | .12 |     |     |     |     |     |     | .56 | .10  |     |      | .52  | .29 | .60  | .02 |     | T.  | .15 | *   | .13 |     |     | .14 | .14 |     | 2.92 |       |  |
| Somerset.....      | Youghiogheny..... |              |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |      |       |  |
| Springdale\|\|\| | Allegheny.....    | .05          | .02 | T.  | T.  |     | .16 |     |     | T.  |     |     |     | .02 | .66  | .31 |      | .12  | .15 | .18  | .01 | T.  |     | .27 | .13 | .08 | .06 |     | .08 | .09 | T.  | 2.39 |       |  |
| Uniontown.....     | Monongahela.....  | .22          | .03 | T.  |     |     | .03 | .04 |     |     |     |     |     | .14 | .60  | .09 | .01  |      |     | .61  | T.  |     |     | .51 | .06 | .03 |     | T.  | .15 | .14 | .06 | 2.72 |       |  |
| Unity Reservoir\|\|\| | Youghiogheny..... | T.           | .25 | .05 |     |     | T.  | .10 |     |     |     |     |     | .33 | 1.00 | .08 |      |      | .44 | .37  |     |     |     | .43 | .08 | .08 |     |     | .24 | .17 |     | 3.62 |       |  |
| Vandergrift\|\|\| | Conemaugh.....    |              | T.  |     |     |     | .14 |     |     |     |     |     |     | .20 | .70  |     |      |      | .20 | .03  | .20 |     |     | .01 | .30 |     | .12 |     | .20 |     |     | 2.10 |       |  |
| Warren.....        | Allegheny.....    | .12          | .14 | .13 |     |     | .30 |     |     |     |     |     |     | .15 | .15  | .03 | .02  | .26  | .63 | .06  | .05 | .03 | .06 | .42 | .10 | .04 |     |     | .10 | .03 |     | 2.82 |       |  |
| Westford\|\|\| | Beaver.....       |              | .21 |     |     |     | .12 |     |     |     |     |     |     | .34 | .07  |     |      | .40  | .51 |      |     |     |     |     | .08 |     |     |     | .09 | .20 |     | 2.02 |       |  |
| West Newton\|\|\| | Youghiogheny..... | .10          | .02 |     |     |     | .10 |     |     |     |     |     | .05 | .45 | 1.60 |     |      | .04  | .30 | .26  | .02 |     |     | .60 | .11 | .05 |     |     | .02 | .07 | .25 | 3.04 |       |  |
| Zelienople\|\|\| | Ohio.....         | *            | *   | *   | .13 | .08 | .21 | .36 |     |     |     |     |     | *   | *    |     | 1.04 |      | .80 | 1.18 |     |     | .16 | .31 |     |     | .09 | .28 |     |     |     |      | 4.64  |  |
| Lake Drainage.     |                   |              |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |      |       |  |
| Erie***            | Lake Erie.....    | .04          | .13 | .26 | .18 | T.  |     | .46 | .06 |     |     | T.  | .66 | .35 | .04  | .01 | .01  | 1.09 | .14 | .51  | T.  | .04 | T.  | .10 | .14 |     |     | .01 |     | .11 | .04 |      | 4.38  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. † Mdt. to mdt.



Daily Temperatures for December, 1929

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean              |                   |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|------|
| Allentown.....    | Maximum | 28 | 29 | 32 | 25 | 37 | 45 | 44 | 48 | 43 | 35 | 32 | 34 | 38 | 58 | 57 | 33 | 39 | 46 | 52 | 26 | 23 | 32 | 26 | 29 | 29 | 38 | 39 | 38 | 38 | 44 | 49                | 37.6              |      |
|                   | Minimum | 10 | 14 | 22 | 14 | 14 | 22 | 23 | 26 | 31 | 29 | 29 | 13 | 13 | 30 | 33 | 29 | 28 | 30 | 38 | 24 | 20 | 19 | 18 | 16 | 19 | 17 | 23 | 30 | 33 | 28 | 29                | 23.4              |      |
| Altoona.....      | Maximum | 23 | 30 | 29 | 20 | 43 | 55 | 50 | 48 | 43 | 41 | 41 | 34 | 54 | 56 | 55 | 43 | 44 | 47 | 50 | 32 | 19 | 24 | 24 | 24 | 26 | 37 | 50 | 46 | 38 | 38 | 46                | 39.0              |      |
|                   | Minimum | 4  | 18 | 5  | 8  | 18 | 39 | 38 | 36 | 32 | 29 | 34 | 20 | 28 | 50 | 43 | 31 | 31 | 42 | 31 | 13 | 11 | 15 | 22 | 18 | 22 | 25 | 24 | 32 | 30 | 26 | 34                | 26.1              |      |
| Beaver Dam.....   | Maximum | 23 | 31 | 30 | 22 | 42 | 60 | 49 | 47 | 39 | 40 | 40 | 38 | 53 | 53 | 43 | 39 | 59 | 59 | 41 | 27 | 23 | 25 | 30 | 30 | 33 | 40 | 45 | 45 | 37 | 41 | 46                | 39.4              |      |
|                   | Minimum | 4  | 22 | 15 | 13 | 21 | 28 | 30 | 35 | 31 | 26 | 32 | 30 | 37 | 32 | 37 | 33 | 37 | 36 | 26 | 13 | 12 | 12 | 23 | 20 | 15 | 25 | 30 | 32 | 30 | 27 | 34                | 25.7              |      |
| Bellefonte.....   | Maximum | 21 | 30 | 24 | 23 | 43 | 52 | 50 | 43 | 42 | 41 | 36 | 28 | 35 | 57 | 55 | 34 | 44 | 52 | 57 | 25 | 23 | 24 | 22 | 25 | 32 | 37 | 48 | 38 | 34 | 42 | 46                | 37.5              |      |
|                   | Minimum | 2  | 17 | 15 | 9  | 24 | 29 | 28 | 27 | 29 | 27 | 24 | 21 | 21 | 11 | 38 | 32 | 30 | 35 | 38 | 17 | 11 | 6  | 14 | 19 | 7  | 10 | 21 | 32 | 30 | 25 | 24                | 20.1              |      |
| Brookville.....   | Maximum | 22 | 30 | 23 | 25 | 40 | 49 | 46 | 46 | 39 | 39 | 34 | 34 | 55 | 57 | 47 | 36 | 54 | 55 | 48 | 18 | 20 | 23 | 28 | 25 | 30 | 41 | 47 | 38 | 33 | 32 | 44                | 37.4              |      |
|                   | Minimum | -9 | 9  | 8  | 7  | 16 | 17 | 29 | 29 | 27 | 24 | 21 | 21 | 11 | 38 | 32 | 30 | 35 | 38 | 17 | 11 | 6  | 14 | 19 | 7  | 10 | 21 | 32 | 30 | 25 | 24 | 20.1              |                   |      |
| Butler.....       | Maximum | 22 | 30 | 20 | 18 | 40 | 53 | 47 | 45 | 42 | 39 | 38 | 38 | 56 | 56 | 42 | 34 | 32 | 35 | 35 | 29 | 12 | 11 | 12 | 18 | 18 | 15 | 20 | 35 | 33 | 26 | 33                | 30                | 24.8 |
|                   | Minimum | 2  | 20 | 13 | 10 | 18 | 27 | 29 | 31 | 30 | 26 | 32 | 27 | 34 | 42 | 34 | 32 | 35 | 35 | 29 | 12 | 11 | 12 | 18 | 18 | 15 | 20 | 41 | 42 | 38 | 43 | 53                | 40.4              |      |
| Carlisle.....     | Maximum | 31 | 28 | 31 | 29 | 41 | 42 | 49 | 46 | 45 | 36 | 37 | 30 | 35 | 64 | 66 | 53 | 37 | 47 | 66 | 50 | 26 | 26 | 22 | 22 | 12 | 18 | 15 | 32 | 33 | 29 | 22                | 22.8              |      |
|                   | Minimum | 8  | 15 | 17 | 11 | 13 | 13 | 17 | 27 | 22 | 24 | 20 | 19 | 22 | 34 | 48 | 28 | 32 | 35 | 45 | 20 | 17 | 16 | 20 | 22 | 12 | 18 | 15 | 32 | 33 | 29 | 22                | 22.8              |      |
| Catawissa.....    | Maximum | 29 | 28 | 30 | 30 | 40 | 40 | 46 | 48 | 42 | 42 | 35 | 34 | 36 | 51 | 60 | 39 | 43 | 52 | 60 | 27 | 28 | 29 | 30 | 35 | 42 | 38 | 46 | 37 | 44 | 52 | 39.4              |                   |      |
|                   | Minimum | 9  | 9  | 17 | 4  | 18 | 15 | 20 | 30 | 24 | 26 | 29 | 16 | 24 | 31 | 32 | 23 | 29 | 34 | 37 | 16 | 15 | 15 | 17 | 20 | 16 | 25 | 21 | 30 | 29 | 27 | 29                | 22.2              |      |
| Chambersburg..... | Maximum | 28 | 30 | 31 | 30 | 42 | 48 | 53 | 46 | 46 | 38 | 38 | 36 | 38 | 66 | 66 | 52 | 43 | 48 | 65 | 41 | 29 | 29 | 28 | 28 | 30 | 41 | 47 | 38 | 33 | 32 | 44                | 37.4              |      |
|                   | Minimum | 8  | 16 | 10 | 12 | 15 | 19 | 22 | 33 | 26 | 27 | 28 | 28 | 24 | 32 | 36 | 34 | 34 | 38 | 41 | 20 | 17 | 18 | 20 | 22 | 18 | 16 | 17 | 34 | 32 | 28 | 29                | 24.3              |      |
| Claysville.....   | Maximum | 27 | 34 | 27 | 25 | 46 | 55 | 55 | 50 | 42 | 47 | 46 | 54 | 58 | 57 | 53 | 44 | 63 | 57 | 45 | 25 | 25 | 25 | 31 | 26 | 32 | 43 | 47 | 45 | 38 | 45 | 53                | 41.5              |      |
|                   | Minimum | 1  | 22 | 12 | 10 | 22 | 39 | 44 | 34 | 27 | 28 | 32 | 32 | 52 | 51 | 42 | 33 | 39 | 40 | 33 | 12 | 11 | 11 | 22 | 17 | 12 | 24 | 39 | 33 | 27 | 26 | 29                | 27.6              |      |
| Clearfield.....   | Maximum | 25 | 31 | 30 | 29 | 39 | 53 | 47 | 40 | 40 | 43 | 42 | 29 | 37 | 54 | 53 | 45 | 43 | 53 | 53 | 35 | 21 | 35 | 33 | 36 | 40 | 43 | 48 | 42 | 37 | 37 | 40                | 39.8              |      |
|                   | Minimum | 0  | 11 | 13 | 11 | 20 | 26 | 36 | 33 | 29 | 27 | 25 | 19 | 26 | 36 | 36 | 30 | 35 | 35 | 32 | 15 | 11 | 14 | 18 | 18 | 15 | 20 | 18 | 22 | 34 | 32 | 33                | 23.5              |      |
| Coatesville.....  | Maximum | 23 | 30 | 30 | 34 | 42 | 49 | 56 | 51 | 44 | 39 | 36 | 35 | 41 | 62 | 64 | 45 | 46 | 54 | 62 | 60 | 34 | 32 | 30 | 29 | 33 | 38 | 45 | 43 | 37 | 42 | 48                | 42.4              |      |
|                   | Minimum | 11 | 13 | 17 | 12 | 16 | 22 | 34 | 23 | 24 | 26 | 17 | 27 | 27 | 35 | 29 | 29 | 29 | 42 | 51 | 21 | 20 | 17 | 21 | 22 | 15 | 11 | 17 | 35 | 33 | 28 | 27                | 24.2              |      |
| Corry.....        | Maximum | 21 | 28 | 24 | 21 | 37 | 43 | 46 | 45 | 35 | 43 | 36 | 31 | 52 | 52 | 42 | 34 | 54 | 54 | 34 | 27 | 21 | 27 | 28 | 28 | 29 | 42 | 38 | 35 | 35 | 45 | 55.7 <sup>a</sup> |                   |      |
|                   | Minimum | 1  | 15 | 14 | 8  | 16 | 19 | 29 | 27 | 26 | 24 | 22 | 19 | 29 | 32 | 32 | 23 | 31 | 26 | 23 | 9  | 9  | 9  | 10 | 16 | 14 | 32 | 30 | 25 | 23 | 32 | 20.8 <sup>a</sup> |                   |      |
| Emporium.....     | Maximum | 22 | 32 | 27 | 22 | 39 | 47 | 40 | 48 | 38 | 47 | 38 | 30 | 36 | 51 | 48 | 35 | 44 | 52 | 42 | 30 | 23 | 28 | 25 | 27 | 30 | 36 | 47 | 41 | 37 | 38 | 45                | 36.9              |      |
|                   | Minimum | 5  | 20 | 17 | 12 | 20 | 18 | 25 | 33 | 30 | 30 | 20 | 18 | 29 | 25 | 35 | 28 | 33 | 33 | 30 | 15 | 13 | 16 | 20 | 20 | 15 | 25 | 20 | 34 | 29 | 27 | 28                | 23.6              |      |
| Erie.....         | Maximum | 22 | 30 | 23 | 25 | 39 | 45 | 44 | 46 | 34 | 38 | 32 | 41 | 52 | 42 | 41 | 32 | 40 | 34 | 32 | 19 | 20 | 26 | 30 | 26 | 31 | 44 | 43 | 35 | 34 | 46 | 41                | 35.1              |      |
|                   | Minimum | 7  | 19 | 14 | 12 | 25 | 36 | 34 | 30 | 29 | 31 | 18 | 19 | 41 | 36 | 29 | 27 | 30 | 24 | 19 | 13 | 13 | 19 | 20 | 21 | 21 | 25 | 35 | 32 | 26 | 26 | 35                | 24.7              |      |
| Franklin.....     | Maximum | 28 | 29 | 23 | 27 | 40 | 48 | 47 | 37 | 40 | 40 | 35 | 39 | 58 | 47 | 44 | 39 | 57 | 48 | 34 | 30 | 22 | 24 | 28 | 31 | 30 | 45 | 46 | 38 | 34 | 45 | 49                | 38.1              |      |
|                   | Minimum | 2  | 3  | 14 | 9  | 11 | 26 | 28 | 32 | 30 | 24 | 25 | 24 | 25 | 47 | 38 | 28 | 29 | 34 | 38 | 14 | 11 | 13 | 16 | 18 | 17 | 16 | 19 | 32 | 25 | 33 | 22.3              |                   |      |
| Freeland.....     | Maximum | 25 | 28 | 26 | 22 | 38 | 49 | 50 | 46 | 40 | 40 | 32 | 24 | 43 | 50 | 55 | 36 | 40 | 49 | 54 | 54 | 24 | 26 | 22 | 24 | 34 | 38 | 45 | 43 | 36 | 33 | 47                | 37.8              |      |
|                   | Minimum | 4  | 16 | 14 | 5  | 12 | 31 | 39 | 33 | 28 | 25 | 16 | 10 | 22 | 35 | 34 | 20 | 24 | 27 | 47 | 12 | 10 | 10 | 13 | 16 | 15 | 20 | 27 | 34 | 30 | 21 | 31                | 22.3              |      |
| Gettysburg.....   | Maximum | 32 | 26 | 31 | 28 | 44 | 53 | 57 | 46 | 49 | 46 | 35 | 33 | 38 | 65 | 68 | 59 | 46 | 51 | 64 | 53 | 29 | 27 | 27 | 29 | 32 | 40 | 41 | 40 | 44 | 52 | 42.7              |                   |      |
|                   | Minimum | 10 | 19 | 12 | 14 | 18 | 26 | 32 | 39 | 31 | 30 | 28 | 20 | 24 | 35 | 36 | 33 | 34 | 44 | 48 | 20 | 17 | 18 | 22 | 22 | 14 | 16 | 28 | 35 | 32 | 28 | 33                | 26.4              |      |
| Greensburg.....   | Maximum | 27 | 35 | 29 | 21 | 43 | 55 | 51 | 49 | 43 | 45 | 43 | 48 | 56 | 56 | 53 | 40 | 64 | 60 | 58 | 28 | 23 | 24 | 30 | 28 | 31 | 43 | 47 | 44 | 35 | 39 | 47                | 41.8              |      |
|                   | Minimum | 5  | 23 | 14 | 10 | 21 | 37 | 41 | 35 | 31 | 30 | 23 | 31 | 41 | 52 | 42 | 31 | 32 | 40 | 34 | 13 | 14 | 22 | 17 | 17 | 26 | 42 | 34 | 29 | 27 | 35 | 28.5              |                   |      |
| Grove City.....   | Maximum | 20 | 28 | 23 | 21 | 40 | 49 | 44 | 46 | 38 | 36 | 35 | 35 | 55 | 55 | 51 | 46 | 56 | 55 | 46 | 25 | 18 | 19 | 27 | 28 | 30 | 37 | 47 | 42 | 34 | 36 | 47                | 37.7              |      |
|                   | Minimum | 0  | 19 | 13 | 7  | 18 | 30 | 30 | 28 | 24 | 30 | 24 | 34 | 36 | 34 | 30 | 32 | 33 | 23 | 10 | 10 | 12 | 19 | 17 | 14 | 22 | 35 | 30 | 28 | 24 | 32 | 32.5              |                   |      |
| Hamburg.....      | Maximum | 30 | 26 | 26 | 20 | 38 | 46 | 47 | 44 | 44 | 41 | 34 | 30 | 34 | 60 | 59 | 56 | 35 | 51 | 56 | 53 | 24 | 27 | 25 | 27 | 31 | 36 | 39 | 36 | 33 | 38 | 47                | 38.5              |      |
|                   | Minimum | 16 | 14 | 12 | 10 | 15 | 22 | 22 | 31 | 24 | 26 | 18 | 15 | 17 | 30 | 34 | 25 | 27 | 34 | 38 | 21 | 18 | 16 | 18 | 18 | 10 | 15 | 28 | 26 | 22 | 27 | 30                | 21.9              |      |
| Harrisburg.....   | Maximum | 29 | 28 | 30 | 27 | 43 | 46 | 46 | 48 | 44 | 39 | 36 | 28 | 35 | 62 | 63 | 40 | 41 | 49 | 63 | 35 | 28 | 29 | 29 | 30 | 30 | 40 | 41 | 41 | 39 | 43 | 52                | 39.8              |      |
|                   | Minimum | 13 | 22 | 19 | 13 | 24 | 26 | 28 | 35 | 30 | 32 | 23 | 19 | 28 | 34 | 39 | 31 | 31 | 41 | 35 | 22 | 20 | 21 | 20 | 24 | 20 | 26 | 30 | 36 | 33 | 29 | 35                | 27.1              |      |
| Hawley.....       | Maximum | 26 | 27 | 30 | 25 | 36 | 41 | 51 | 45 | 38 | 33 | 30 | 23 | 33 | 43 | 49 | 37 | 39 | 48 | 47 | 47 | 26 | 29 | 26 | 26 | 32 | 37 | 45 | 43 | 36 | 34 | 43                | 36.3 <sup>d</sup> |      |
|                   | Minimum | 10 | 18 | 21 | 8  | 16 | 17 | 19 | 33 | 20 | 21 | 6  | 15 | 32 | 33 | 22 | 20 | 39 | 40 | 21 | 15 | 19 | 16 | 19 | 15 | 10 | 22 | 34 | 30 | 22 | 33 | 21.6              |                   |      |
| Huntingdon.....   | Maximum | 27 | 16 | 17 | 13 | 21 | 31 | 30 | 31 | 24 | 24 | 21 | 21 | 27 | 34 | 32 | 32 | 34 | 41 | 59 | 47 | 24 | 25 | 26 | 27 | 30 | 42 | 52 | 48 | 37 | 41 | 52                | 43.1 <sup>d</sup> |      |
|                   | Minimum | 7  | 16 | 17 | 13 | 21 | 31 | 30 | 31 | 24 | 24 | 21 | 21 | 27 | 34 | 32 | 32 | 34 | 41 | 59 | 47 | 24 | 25 | 26 | 27 | 30 | 42 | 52 | 48 | 37 | 41 | 52                | 43.1 <sup>d</sup> |      |
| Hyndman.....      | Maximum | 32 | 35 | 35 | 26 | 55 | 61 | 57 | 52 | 50 | 48 | 50 | 34 | 55 | 65 | 67 | 58 | 46 | 55 | 57 | 35 | 30 | 31 | 29 | 28 | 31 | 45 | 56 | 47 | 42 | 44 | 57                | 45.6              |      |
|                   | Minimum | 5  | 19 | 17 | 12 | 30 | 30 | 38 | 26 | 25 | 31 | 27 | 29 | 34 | 56 | 63 | 46 | 37 | 35 | 41 | 33 | 17 | 1  |    |    |    |    |    |    |    |    |                   |                   |      |







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# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXIV. ANNUAL SUMMARY, 1929. No. 13.

## GENERAL SUMMARY.

The year as a whole developed a moderate excess in temperature, due chiefly to the mild conditions that prevailed in March and April. January was a seasonable month with somewhat less than the normal snowfall. The grain fields were bare a large part of the month and the frost penetrated deeply. February was also a seasonable month with a moderate excess in snowfall. However, the snow melted rapidly after each storm, and the fields were bare the greater portion of the month. Ice jams caused floods in the Allegheny river from Kittanning to Pittsburgh with only slight damage reported. Near flood stages occurred in all of the river districts. March accumulated a large excess in temperature, while its rainfall and snowfall were deficient. Grain fields had little snow covering but at the close of the month the conditions were reported as generally good, and it seemed that the losses from winter killing had been no greater than usual. Mild conditions continued from March through the first half of April and vegetation got an early and vigorous start, after which there was some slowing up before the end of the month. April was marked by severe wind storms. In Northampton county a tornado occurred on the 1st, killing three persons and doing considerable property damage. The mild temperature conditions broke sharply on the 16th when heavy snows occurred over a large portion of the State accompanied by high winds and gales that did considerable damage. On the 25th a small tornado occurred in the city of York with considerable damage along its path, but with no deaths reported. May was a generally seasonable month and favorable for crop growth, but was marked by an unusual number of damaging local storms. June temperatures showed unusual extremes, and the month was unfavorable in many respects. Frost occurred at many places on the 3d, after which the temperature rose steadily to a point considerably above the normal, and broke up in severe thunderstorms on the 18th and 19th with heavy and widespread damage by lightning and winds. Winter grains developed a heavy straw and ripened rapidly with harvest beginning at the close of the month, from a week to ten days earlier than usual. Following a moderate shortage of rainfall for June there was a much larger shortage during July and August with an accumulated deficiency of nearly four inches for the three months. The drought was severe enough to stunt the growth of all crops, and developed the most unfavorable crop season that Pennsylvania has experienced for many years. Threshing revealed the fact that the winter grains did not fill well despite the heavy straw that seemed to presage heavy yields. The oats crop was light and corn was badly stunted. The first cutting of hay was heavy and unusually good, but latter cuttings were invariably light. Likewise early potatoes returned good yields of fine quality, while the late crop was almost a complete failure in some sections. Good rains occurred after the middle of September and continued through October, replenishing the water supply and restoring the pastures to an excellent condition. They improved late truck in some places, but were too late to benefit other crops. November was generally favorable with a severe cold wave at the close of the month. December was seasonable excepting the third week which was excessively warm and high temperature records were broken at several places.

## COMPARATIVE ANNUAL DATA FOR THE STATE

| Year      | Temperature |        | Precipitation  |             | Year      | Temperature |        | Precipitation  |             |
|-----------|-------------|--------|----------------|-------------|-----------|-------------|--------|----------------|-------------|
|           | Highest     | Lowest | Greatest total | Least total |           | Highest     | Lowest | Greatest total | Least total |
| 1888..... | 100         | -31    | .....          | .....       | 1909..... | 100         | -19    | 48.79          | 27.91       |
| 1889..... | 96          | -27    | .....          | .....       | 1910..... | 99          | -22    | 51.45          | 31.08       |
| 1890..... | 101         | -18    | .....          | .....       | 1911..... | 105         | -18    | 67.61          | 29.25       |
| 1891..... | 100         | -14    | 64.00          | 32.21       | 1912..... | 100         | -35    | 60.95          | 33.08       |
| 1892..... | 103         | -28    | 54.63          | 32.07       | 1913..... | 102         | -9     | 56.06          | 32.48       |
| 1893..... | 102         | -25    | 58.56          | 30.62       | 1914..... | 101         | -28    | 54.33          | 28.83       |
| 1894..... | 103         | -28    | 57.43          | 28.17       | 1915..... | 99          | -26    | 61.96          | 33.40       |
| 1895..... | 104         | -26    | 40.80          | 21.17       | 1916..... | 103         | -31    | 58.50          | 31.05       |
| 1896..... | 101         | -21    | 53.52          | 32.29       | 1917..... | 105         | -29    | 62.68          | 23.56       |
| 1897..... | 103         | -25    | 55.16          | 19.83       | 1918..... | 108         | -34    | 60.60          | 29.97       |
| 1898..... | 107         | -16    | 56.95          | 34.07       | 1919..... | 104         | -23    | 58.30          | 31.55       |
| 1899..... | 101         | -39    | 51.13          | 28.36       | 1920..... | 99          | -21    | 58.70          | 26.27       |
| 1900..... | 104         | -23    | 55.68          | 25.73       | 1921..... | 104         | -15    | 62.91          | 30.08       |
| 1901..... | 107         | -22    | 56.83          | 29.81       | 1922..... | 100         | -19    | 50.96          | 26.27       |
| 1902..... | 100         | -24    | 65.05          | 29.79       | 1923..... | 103         | -20    | 52.84          | 23.75       |
| 1903..... | 99          | -17    | 57.16          | 35.90       | 1924..... | 102         | -25    | 55.80          | 30.21       |
| 1904..... | 99          | -42    | 56.72          | 31.05       | 1925..... | 104         | -29    | 55.47          | 25.95       |
| 1905..... | 99          | -25    | 59.38          | 33.53       | 1926..... | 105         | -20    | 57.03          | 30.06       |
| 1906..... | 99          | -21    | 61.56          | 32.55       | 1927..... | 100         | -24    | 63.93          | 32.88       |
| 1907..... | 98          | -23    | 64.05          | 31.79       | 1928..... | 99          | -23    | 54.42          | 29.52       |
| 1908..... | 104         | -29    | 50.26          | 26.72       | 1929..... | 101         | -20    | 58.69          | 33.13       |

## MONTHLY STATE DATA FOR 1929

| Month          | Temperature |                   |                  |         |        | Precipitation |          |       |                     |              |
|----------------|-------------|-------------------|------------------|---------|--------|---------------|----------|-------|---------------------|--------------|
|                | Mean        | Highest sta. mean | Lowest sta. mean | Highest | Lowest | Average       | Greatest | Least | Greatest in 24 hrs. | Average snow |
| January.....   | 27.3        | 34.2              | 20.7             | 73      | -20    | 3.37          | 6.86     | 1.12  | 3.00                | 7.6          |
| February.....  | 28.0        | 35.3              | 21.8             | 69      | -20    | 2.87          | 5.17     | 1.36  | 1.98                | 11.7         |
| March.....     | 43.7        | 48.6              | 35.4             | 89      | -5     | 2.69          | 4.50     | 1.37  | 1.42                | 4.4          |
| April.....     | 51.4        | 55.4              | 44.4             | 94      | 19     | 6.12          | 8.94     | 3.31  | 3.80                | 1.1          |
| May.....       | 58.5        | 63.0              | 52.2             | 97      | 23     | 4.81          | 8.43     | 1.96  | 3.65                | T.           |
| June.....      | 67.8        | 73.5              | 60.2             | 98      | 28     | 3.56          | 6.77     | 1.10  | 3.35                | 0            |
| July.....      | 71.8        | 77.2              | 64.8             | 99      | 33     | 2.81          | 6.97     | 0.19  | 3.14                | 0            |
| August.....    | 67.7        | 75.2              | 60.7             | 98      | 31     | 2.52          | 7.20     | 0.20  | 4.24                | 0            |
| September..... | 65.7        | 71.5              | 59.1             | 101     | 24     | 3.71          | 8.72     | 1.05  | 5.08                | 0            |
| October.....   | 50.6        | 56.2              | 44.6             | 85      | 14     | 5.59          | 10.40    | 1.65  | 4.70                | T.           |
| November.....  | 41.1        | 47.8              | 35.5             | 81      | -10    | 3.39          | 5.07     | 1.89  | 2.33                | 1.9          |
| December.....  | 32.2        | 38.2              | 27.6             | 70      | -9     | 2.77          | 4.95     | 1.21  | 1.60                | 10.0         |
| Year.....      | 50.5        | 77.2              | 20.7             | 101     | -20    | 44.21         | 10.40    | 0.19  | 5.08                | 36.7         |

## KILLING FROSTS OR FREEZING TEMPERATURE

| Stations           | Last in spring | First in autumn | Stations             | Last in spring | First in autumn |
|--------------------|----------------|-----------------|----------------------|----------------|-----------------|
| Allentown.....     | Apr. 1         | Oct. 9          | Lancaster.....       | May 11         | Sept. 19        |
| Altoona.....       | May 17         | Sept. 19        | Lawrenceville.....   | do. 23         | do. 16          |
| Beaver Dam.....    | do. 10         | Oct. 6          | Lebanon.....         | Apr. 2         | Oct. 9          |
| Bethlehem.....     | Mar. 19        | do. 11          | Lewisburg.....       | May 8          | do. 6           |
| Bradford.....      | Apr. 29        | Sept. 19        | Lock Haven.....      | do. 8          | do. 5           |
| Brookville.....    | May 25         | do. 18          | Lycippus.....        | Apr. 19        | Sept. 19        |
| Butler.....        | June 3         | do. 19          | Lykens.....          | May 23         | do. 19          |
| Carlisle.....      | May 10         | do. 19          | Mauch Chunk.....     | do. 23         | do. 19          |
| Catawissa.....     | do. 17         | do. 19          | Meadville.....       | do. 20         | do. 19          |
| Center Hall.....   | do. 20         | do. 19          | Millintown.....      | do. 10         | do. 19          |
| Chambersburg.....  | do. 17         | Oct. 11         | Montrose.....        | June 6         | do. 19          |
| Claysville.....    | June 4         | Sept. 19        | Mount Pocono.....    | May 17         | do. 19          |
| Clearfield.....    | do. 3          | do. 19          | Muncy Valley.....    | June 3         | do. 19          |
| Coatesville.....   | May 10         | Oct. 5          | Narberth.....        | Mar. 19        | Oct. 9          |
| Colebrook.....     | do. 17         | do. 5           | Neshaminy Falls..... | May 4          | do. 5           |
| Corry.....         | June 6         | Sept. 19        | New Castle.....      | June 3         | Sept. 19        |
| Derry.....         | May 17         | do. 19          | Newell.....          | Apr. 23        | Oct. 18         |
| Ebensburg.....     | June 3         | do. 19          | Palmerton.....       | May 11         | Sept. 20        |
| Elk Lick.....      | do. 4          | do. 19          | Philadelphia.....    | Mar. 18        | Oct. 19         |
| Emporium.....      | do. 3          | do. 19          | Phoenixville.....    | Apr. 24        | do. 9           |
| Ephrata.....       | May 17         | Oct. 9          | Pittsburgh.....      | do. 19         | Sept. 19        |
| Erie.....          | Apr. 2         | do. 10          | Quakertown.....      | May 10         | Oct. 5          |
| Franklin.....      | June 3         | Sept. 20        | Reading.....         | Mar. 18        | Nov. 21         |
| Freeland.....      | May 17         | do. 19          | Ridgway.....         | June 6         | Sept. 19        |
| George School..... | Apr. 24        | Oct. 10         | Scranton.....        | May 10         | Oct. 9          |
| Gettysburg.....    | Mar. 30        | do. 5           | Selinsgrove.....     | do. 10         | Sept. 19        |
| Gordon.....        | June 4         | Sept. 20        | Sharon.....          | do. 20         | do. 19          |
| Gouldsboro.....    | do. 3          | Aug. 20         | Shawmont.....        | Mar. 19        | Oct. 18         |
| Greensburg.....    | May 17         | Sept. 19        | Somerset.....        | June 4         | .....           |
| Greenville.....    | June 6         | do. 19          | State College.....   | do. 3          | Sept. 19        |
| Grove City.....    | May 20         | do. 19          | Stroudsburg.....     | May 23         | do. 19          |
| Hamburg.....       | do. 10         | Oct. 5          | Towanda.....         | do. 23         | do. 19          |
| Hanover.....       | Apr. 18        | do. 5           | Uniontown.....       | Apr. 23        | Oct. 18         |
| Harrisburg.....    | Mar. 17        | do. 11          | Vandergrift.....     | May 17         | Sept. 19        |
| Hawley.....        | June 3         | Sept. 19        | Warren.....          | do. 23         | do. 19          |
| Holtwood.....      | Mar. 18        | Nov. 10         | Wellsboro.....       | June 6         | do. 19          |
| Huntingdon.....    | May 23         | Sept. 19        | West Chester.....    | Mar. 19        | Oct. 18         |
| Hyndman.....       | do. 17         | do. 19          | Williamsport.....    | May 10         | do. 6           |
| Johnstown.....     | Apr. 2         | do. 19          | York.....            | do. 11         | do. 6           |



## Climatological Data for the Year 1929

| STATION                | Counties          | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |          |        |          | Precipitation (inches)  |                    |                  |       |               |       | Sky                       |                              |                   |                           | Prevailing direction of wind |                    |
|------------------------|-------------------|-----------------|----------------------------------|-------------|---------|----------|--------|----------|-------------------------|--------------------|------------------|-------|---------------|-------|---------------------------|------------------------------|-------------------|---------------------------|------------------------------|--------------------|
|                        |                   |                 | Length of record, years          | Annual mean | Highest | Date     | Lowest | Date     | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month | Total snowfall (unmelted) | Number days with .01 or more | Number clear days | Number partly cloudy days |                              | Number cloudy days |
| Atlantic Drainage.     |                   |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                           |                              |                   |                           |                              |                    |
| Allentown.....         | Lehigh.....       | 254             | 17                               | 51.3        | 96      | July 28† | 5      | Feb. 23  | 18                      | 44.18              | 7.31             | Apr.  | 1.83          | July  | 22.1                      | 125                          | 199               | 113                       | 53                           | ne.                |
| Altoona.....           | Blair.....        | 1,615           | 33                               | 49.5        | 94      | Sept. 3  | -7     | Jan. 14  | 42                      | 45.86              | 7.67             | do.   | 1.28          | Aug.  | 53.5                      | 133                          | 178               | 86                        | 101                          | w.                 |
| Bellefonte.....        | Center.....       | 1,050           | 13                               | 47.8        | 95      | Sept. 3  | -3     | Feb. 5   | 24                      | 36.98              | 7.44             | Oct.  | 1.22          | do.   | 30.8                      | 127                          | 78                | 126                       | 161                          | w.                 |
| Bethlehem.....         | Northampton.....  | 364             | 26                               | 53.6        | 96      | June 18† | 5      | Jan. 14  | 43                      | 40.89              | 5.23             | Apr.  | 2.24          | July  | 26.3                      | 123                          | 186               | 46                        | 133                          | w.                 |
| Carlisle.....          | Cumberland.....   | 467             | 63                               | 52.7        | 100     | Sept. 3  | 0      | Feb. 24  | 41                      | 48.71              | 7.73             | Oct.  | 1.65          | do.   | 50.0                      | 119                          | 212               | 49                        | 104                          | n.w.               |
| Catawissa.....         | Columbia.....     | 520             | 33                               | 50.5        | 98      | July 28  | -2     | do. 24   | 33                      | 39.09              | 5.64             | Apr.  | 1.90          | do.   | 31.3                      | 111                          | 226               | 53                        | 86                           | .....              |
| Center Hall.....       | Center.....       | 1,272           | 33                               | 48.3        | 96      | Sept. 3  | -3     | Jan. 13  | 33                      | 36.97              | 6.47             | Oct.  | 1.69          | Dec.  | 44.2                      | 99                           | 209               | 54                        | 102                          | .....              |
| Chambersburg.....      | Franklin.....     | 530             | 30                               | 51.7        | 97      | July 28† | 2      | do. 14   | 29                      | 44.48              | 6.31             | Apr.  | 1.74          | July  | 34.2                      | 121                          | 128               | 134                       | 103                          | sw.                |
| Clearfield.....        | Clearfield.....   | 1,120           | 19                               | 49.7        | 98      | June 19† | -10    | do. 16   | 20                      | 51.94              | 8.43             | May   | 1.79          | Aug.  | 52.0                      | 140                          | 124               | 129                       | 112                          | w.                 |
| Coatesville.....       | Chester.....      | 380             | 42                               | 51.9        | 95      | July 28  | 1      | do. 14   | 42                      | 48.26              | 6.72             | Apr.  | 2.52          | June  | 25.9                      | 119                          | 138               | 134                       | 93                           | s.                 |
| Colebrook.....         | Lebanon.....      | 560             | 14                               | 50.3        | 94      | Sept. 2  | 0      | do. 14   | 20                      | 48.42              | 6.80             | do.   | 2.58          | Dec.  | 35.5                      | 136                          | 189               | 54                        | 122                          | w.                 |
| Emporium.....          | Cameron.....      | 1,050           | 42                               | 47.2        | 91      | June 19  | -15    | do. 16   | 42                      | 51.88              | 7.33             | do.   | 1.46          | Aug.  | 41.5                      | 127                          | 130               | 109                       | 126                          | w.                 |
| Ephrata.....           | Lancaster.....    | 380             | 29                               | 52.4        | 94      | do. 19†  | 6      | do. 14†  | 29                      | 38.68              | 5.27             | do.   | 1.65          | do.   | 29.6                      | 119                          | 169               | 75                        | 121                          | sw.                |
| Freeland.....          | Luzerne.....      | 1,970           | 10                               | 47.9        | 90      | Sept. 3  | -8     | do. 14   | 14                      | 52.23              | 7.88             | Oct.  | 2.42          | July  | 84.3                      | 158                          | 94                | 112                       | 159                          | n.w.               |
| George School.....     | Bucks.....        | 190             | 23                               | 53.4        | 98      | June 21† | 3      | Feb. 24  | 23                      | 40.42              | 6.32             | Apr.  | 1.24          | do.   | 14.3                      | 116                          | 216               | 62                        | 87                           | sw.                |
| Gettysburg.....        | Adams.....        | 553             | 54                               | 53.4        | 98      | Sept. 3  | 4      | Jan. 14  | 56                      | 45.20              | 7.00             | do.   | 1.87          | Aug.  | 33.3                      | 131                          | 159               | 94                        | 112                          | s.                 |
| Gordon.....            | Schuylkill.....   | 840             | 26                               | 48.9        | 94      | do. 3    | -5     | Feb. 24  | 26                      | 48.00              | 6.34             | do.   | 2.68          | Feb.  | 63.5                      | 117                          | 192               | 55                        | 120                          | w.                 |
| Gouldsboro.....        | Wayne.....        | 1,875           | 6                                | 44.4        | 90      | July 28† | -12    | do. 24   | 15                      | 41.26              | 6.25             | Oct.  | 1.87          | July  | 39.0                      | 118                          | 179               | 80                        | 106                          | w.                 |
|                        |                   |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                           |                              |                   |                           |                              |                    |
| Hamburg.....           | Berks.....        | 535             | 36                               | 50.9        | 96      | Sept. 3  | 0      | Feb. 23† | 36                      | 42.42              | 7.12             | Sept. | 1.56          | July  | 26.0                      | 102                          | 185               | 104                       | 76                           | w.                 |
| Hanover.....           | York.....         | 600             | 26                               | 54.5        | 97      | do. 3    | 4      | Jan. 14  | 26                      | 48.26              | 6.95             | Apr.  | 1.20          | Aug.  | 35.0                      | 132                          | 207               | 61                        | 97                           | s.                 |
| Harrisburg.....        | Dauphin.....      | 361             | 42                               | 52.8        | 96      | do. 3    | 5      | do. 14   | 60                      | 47.39              | 7.10             | Oct.  | 2.19          | Mar.  | 32.5                      | 130                          | 99                | 138                       | 128                          | sw.                |
| Hawley.....            | Wayne.....        | 900             | 11                               | 47.8        | 95      | July 28  | -10    | Feb. 24  | 11                      | 38.79              | 5.85             | do.   | 1.35          | Aug.  | 46.5                      | 109                          | 156               | 126                       | 83                           | w.                 |
| Holtwood.....          | Lancaster.....    | 200             | 10                               | 55.1        | 100     | Sept. 3  | 9      | Jan. 15  | 14                      | 37.00              | 5.60             | do.   | 1.74          | Dec.  | 25.3                      | 111                          | 158               | 104                       | 103                          | .....              |
| Huntingdon.....        | Huntingdon.....   | 650             | 42                               | 50.9        | 97      | June 19  | -2     | Feb. 5   | 42                      | 40.96              | 7.80             | do.   | 1.78          | July  | 29.4                      | 131                          | 113               | 129                       | 123                          | w.                 |
| Hyndman.....           | Bedford.....      | 977             | 17                               | 52.6        | 99      | July 28  | -1     | Jan. 13  | 17                      | 38.34              | 7.03             | do.   | 1.22          | do.   | .....                     | 124                          | 94                | 99                        | 172                          | .....              |
| Lancaster.....         | Lancaster.....    | 255             | 26                               | 51.9        | 98      | Sept. 2  | -3     | Feb. 24  | 42                      | 40.53              | 4.98             | Apr.  | 1.83          | Dec.  | 24.5                      | 100                          | 227               | 54                        | 84                           | w.                 |
| Lawrenceville.....     | Tioga.....        | 1,000           | 32                               | 47.2        | 95      | June 19  | -15    | do. 23   | 32                      | 38.58              | 6.34             | May   | 0.85          | Aug.  | 55.0                      | 106                          | 142               | 94                        | 129                          | .....              |
| Lebanon.....           | Lebanon.....      | 469             | 41                               | 51.9        | 97      | do. 19   | 5      | Jan. 14  | 89                      | 46.07              | 6.23             | Sept. | 2.37          | Feb.  | 22.4                      | 126                          | 191               | 108                       | 66                           | sw.                |
| Lewisburg.....         | Union.....        | 450             | 54                               | 51.7        | 101     | Sept. 3  | 0      | Feb. 24  | 55                      | 43.14              | 6.87             | Oct.  | 1.41          | Aug.  | 41.4                      | 119                          | 129               | 112                       | 124                          | w.                 |
| Lock Haven.....        | Clinton.....      | 560             | 41                               | 51.9        | 98      | June 19  | 1      | Jan. 14  | 41                      | 37.47              | 5.57             | do.   | 0.98          | do.   | 26.0                      | 131                          | 113               | 143                       | 109                          | sw.                |
| Lykens.....            | Dauphin.....      | 680             | 15                               | 50.9        | 96      | do. 19   | 1      | Feb. 5   | 15                      | 54.05              | 9.04             | do.   | 2.31          | Dec.  | 32.3                      | 117                          | 181               | 116                       | 68                           | n.w.               |
| Mauch Chunk.....       | Carbon.....       | 600             | 40                               | 49.2        | 100     | Sept. 3  | -2     | do. 24   | 40                      | 48.04              | 5.88             | Apr.  | 2.18          | July  | 38.4                      | 113                          | 185               | 76                        | 104                          | s.                 |
| Mifflintown.....       | Juniata.....      | 445             | 26                               | 50.8        | 97      | July 28† | 2      | Jan. 14  | 26                      | 43.20              | 8.06             | Oct.  | 1.14          | do.   | 28.4                      | 120                          | 154               | 56                        | 155                          | w.                 |
| Montrose.....          | Susquehanna.....  | 1,658           | 27                               | 46.1        | 92      | do. 28†  | -11    | do. 14   | 26                      | 41.48              | 7.11             | Apr.  | 1.72          | June  | 60.0                      | 93                           | 128               | 98                        | 139                          | w.                 |
| Mt. Pocono.....        | Monroe.....       | 1,720           | 25                               | 45.6        | 89      | do. 28   | -6     | Feb. 23  | 25                      | 55.06              | 8.23             | Oct.  | 2.56          | Mar.  | 64.5                      | 132                          | 165               | 60                        | 140                          | n.w.               |
| Muncy Valley.....      | Sullivan.....     | 1,045           | 18                               | 48.3        | 95      | Sept. 3  | -7     | Jan. 14† | 18                      | 47.48              | 7.38             | Apr.  | 0.95          | July  | 37.6                      | 107                          | 179               | 85                        | 101                          | n.w.               |
|                        |                   |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                           |                              |                   |                           |                              |                    |
| Neshaminy Falls.....   | Bucks.....        | 60              | 15                               | 51.8        | 94      | Sept. 2† | 1      | Feb. 24  | 40                      | 43.82              | 6.99             | Apr.  | 1.62          | July  | 11.5                      | 122                          | 195               | 63                        | 107                          | s.                 |
| Palmerton.....         | Carbon.....       | 398             | 11                               | 50.0        | 97      | July 28† | -2     | do. 24   | 13                      | 40.02              | 5.65             | Oct.  | 1.32          | Dec.  | 26.2                      | 110                          | 75                | 148                       | 142                          | sw.                |
| Philadelphia.....      | Philadelphia..... | 114             | 58                               | 55.9        | 95      | June 19  | 9      | Jan. 14  | 58                      | 41.56              | 6.51             | Sept. | 1.53          | July  | 11.5                      | 118                          | 103               | 116                       | 146                          | sw.                |
| Philadelphia-Gtn.....  | Philadelphia..... | 113             | 5                                | 55.6        | 96      | do. 19†  | 8      | do. 14   | 5                       | 42.45              | 6.78             | do.   | 1.63          | do.   | 15.6                      | 119                          | 127               | 124                       | 114                          | .....              |
| Phila. Navy Yard.....  | Philadelphia..... | 12              | 14                               | 54.5        | 97      | do. 19   | 8      | do. 14   | 14                      | 39.13              | 5.62             | Apr.  | 1.20          | do.   | 10.1                      | 129                          | 124               | 63                        | 178                          | .....              |
| Phila.-Pt. Breeze..... | Philadelphia..... | 90              | 4                                | 55.6        | 97      | July 29  | 8      | do. 14   | 4                       | 39.75              | 6.38             | Sept. | 1.41          | do.   | 13.6                      | 98                           | 154               | 90                        | 121                          | sw.                |
| Phoenixville.....      | Chester.....      | 100             | 19                               | 54.4        | 98      | June 19† | 9      | Dec. 4   | 19                      | 51.14              | 7.20             | Aug.  | 2.18          | do.   | 23.1                      | 102                          | 193               | 127                       | 45                           | s.                 |
| Quakertown.....        | Bucks.....        | 496             | 43                               | 51.2        | 98      | July 28  | -5     | Feb. 24  | 45                      | 48.07              | 6.70             | do.   | 1.80          | do.   | 19.2                      | 127                          | 143               | 109                       | 113                          | n.w.               |
| Reading.....           | Berks.....        | 325             | 52                               | 53.5        | 96      | Sept. 3  | 8      | Jan. 14  | 60                      | 43.17              | 5.45             | Oct.  | 2.10          | do.   | 28.9                      | 122                          | 125               | 117                       | 123                          | w.                 |
| Scranton.....          | Lackawanna.....   | 805             | 34                               | 50.2        | 96      | do. 3    | 1      | do. 14   | 35                      | 35.13              | 4.68             | Apr.  | 1.06          | do.   | 25.7                      | 133                          | 67                | 128                       | 170                          | sw.                |
| Selinsgrove.....       | Snyder.....       | 455             | 40                               | 51.4        | 97      | do. 3    | 2      | Feb. 24  | 41                      | 43.56              | 7.30             | Oct.  | 1.12          | do.   | 35.1                      | 110                          | 182               | 83                        | 100                          | sw.                |
| Shawmont.....          | Philadelphia..... | 51              | 13                               | 54.2        | 95      | July 29  | 8      | Jan. 14  | 34                      | 43.14              | 7.01             | Apr.  | 1.79          | do.   | 15.8                      | 118                          | 137               | 118                       | 110                          | w.                 |
| State College.....     | Center.....       | 1,217           | 42                               | 49.4        | 95      | Sept. 3  | -4     | do. 14   | 45                      | 39.91              | 7.06             | Oct.  | 1.39          | do.   | 29.0                      | 123                          | 122               | 151                       | 92                           | w.                 |
| Stroudsburg.....       | Monroe.....       | 500             | 14                               | 49.0        | 95      | do. 2†   | -2     | Feb. 24  | 15                      | 40.13              | 6.19             | Apr.  | 0.19          | do.   | 34.7                      | 99                           | 150               | 83                        | 132                          | w.                 |
| Towanda.....           | Bradford.....     | 754             | 35                               | 48.2        | 95      | do. 2    | -11    | do. 23   | 35                      | 35.47              | 6.55             | do.   | 1.12          | Jan.  | 44.0                      | 136                          | 113               | 107                       | 145                          | s.                 |
| Wellsville.....        | Tioga.....        | 1,419           | 50                               | 46.0        | 93      | July 28† | -10    | Jan. 16  | 65                      | 36.91              | 5.92             | do.   | 0.25          | Aug.  | 60.5                      | 110                          | 226               | 55                        | 84                           | w.                 |
| West Chester.....      | Chester.....      | 455             | 91                               | 53.3        | 96      | do. 9    | 5      | do. 14   | 97                      | 49.78              | 6.29             | do.   | 2.04          | July  | 25.2                      | 110                          | 170               | 116                       | 79                           | w.                 |
| Williamsport.....      | Lycoming.....     | 521             | 40                               | 50.9        | 98      | do. 28†  | 2      | do. 14   | 43                      | 43.19              | 8.81             | Oct.  | 0.88          | Aug.  | 23.0                      | 137                          | 144               | 72                        | 149                          | n.w.               |
| York.....              | York.....         | 400             | 30                               | 52.8        | 98      | Sept. 3  | -1     | Feb. 23  | 42                      | 46.61              | 8.55             | do.   | 1.21          | do.   | 36.0                      | 117                          | 182               | 104                       | 79                           | w.                 |
| Ohio Drainage.         |                   |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                           |                              |                   |                           |                              |                    |
| Beaver Dam.....        | Beaver.....       | 700             | 16                               | 51.1        | 92      | July 28† | -5     | Jan. 14  | 37                      | 40.96              | 5.52             | May   | 2.54          | Aug.  | 26.0                      | 156                          | 72                | 118                       | 175                          | sw.                |
| Brookville.....        | Jefferson.....    | 1,173           | 38                               | .....       | .....   | .....    | -20    | do. 16†  | 39                      | .....              | .....            | do.   | 0.50          | do.   | 49.5                      | .....                        | .....             | .....                     | .....                        | .....              |
| Butler.....            | Butler.....       | 1,152           | 8                                | 50.0        | 96      | June 19† | -13    | do. 16   | 8                       | 49.96              | 7.60             | Apr.  | 2.43          | do.   | 34.1                      | 104                          | 165               | 58                        | 142                          | .....              |
| Claysville.....        | Washington.....   | 1,150           | 26                               | 51.8        | 94      | do. 18†  | -11    | do. 14   | 26                      |                    |                  |       |               |       |                           |                              |                   |                           |                              |                    |



Monthly and Annual Precipitation for the Year 1929, with Departures from the Normal

| STATIONS           | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|--------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                    | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| ALLENTOWN BASIN.   | 3.39          | -0.26     | 3.25          | +0.24     | 2.54          | -1.44     | 7.31          | +3.47     | 2.66          | -0.96     | 3.29          | -0.15     | 1.83          | -3.22     | 4.10          | -0.25     | 5.09          | +1.74     | 4.67          | +1.26     | 3.19          | +0.79     | 2.86          | -0.99     | 44.18         | +0.23     |
| Bethlehem          | 3.19          | -0.39     | 3.73          | +0.24     | 2.44          | -1.20     | 5.23          | +2.08     | 2.66          | -1.06     | 3.90          | -0.27     | 2.24          | -2.32     | 3.70          | -0.62     | 3.92          | +0.53     | 4.35          | +1.12     | 3.09          | -0.02     | 2.44          | -1.06     | 40.59         | -2.97     |
| Coatesville        | 3.84          | -0.13     | 4.58          | +0.48     | 2.88          | -1.48     | 6.72          | +3.09     | 4.55          | +0.52     | 2.52          | -1.52     | 3.21          | -1.81     | 4.67          | +0.24     | 3.39          | -0.51     | 6.11          | +2.59     | 3.22          | +0.03     | 2.57          | -1.65     | 48.26         | -0.15     |
| Conshohocken       | 3.44          | .....     | 5.16          | .....     | 2.64          | .....     | 5.57          | .....     | 3.85          | .....     | 2.86          | .....     | 1.40          | .....     | 4.29          | .....     | 3.32          | .....     | 4.06          | .....     | 2.43          | .....     | 2.18          | .....     | 41.20         | .....     |
| Doylesville        | 2.91          | -0.75     | 4.30          | +0.44     | 2.01          | -2.06     | 5.93          | +1.95     | 3.74          | -0.27     | 2.21          | -1.79     | 2.09          | -2.77     | 3.02          | -2.51     | 4.26          | +0.31     | 4.05          | +0.07     | 2.64          | -0.66     | 3.46          | -0.56     | 40.62         | -8.60     |
| Freeland           | 3.99          | .....     | 3.09          | .....     | 3.75          | .....     | 6.27          | .....     | 4.87          | .....     | 4.76          | .....     | 2.42          | .....     | 2.65          | .....     | 5.09          | .....     | 7.88          | .....     | 3.84          | .....     | 3.62          | .....     | 52.23         | .....     |
| George School      | 2.87          | -0.20     | 3.00          | -0.10     | 1.69          | -1.77     | 6.32          | +2.72     | 4.89          | +1.28     | 1.79          | -1.44     | 1.24          | -3.14     | 2.72          | -1.88     | 5.93          | +2.91     | 4.15          | +0.90     | 2.52          | -0.19     | 3.30          | -0.51     | 40.42         | -1.42     |
| Gouldsboro         | 3.34          | +0.10     | 2.62          | -1.11     | 3.15          | -0.11     | 4.09          | -0.61     | 3.50          | -0.55     | 2.42          | -2.31     | 1.87          | -3.80     | 2.40          | -2.78     | 4.91          | +1.59     | 6.25          | +2.80     | 3.95          | +1.12     | 2.76          | -0.35     | 41.26         | -6.01     |
| Graterford         | 2.73          | .....     | 2.82          | .....     | 1.97          | .....     | 5.24          | .....     | 4.02          | .....     | 3.40          | .....     | 2.41          | .....     | 3.37          | .....     | 4.69          | .....     | 5.46          | .....     | 4.09          | .....     | 2.82          | .....     | 43.02         | .....     |
| Hamburg            | 3.01          | -0.75     | 3.39          | 0.00      | 2.09          | -1.45     | 5.01          | +0.76     | 4.20          | -0.30     | 3.93          | -0.29     | 1.56          | -3.15     | 2.74          | -2.62     | 7.12          | +2.92     | 3.58          | -0.48     | 3.26          | +0.40     | 1.93          | -1.92     | 42.42         | -6.88     |
| Hawley             | 3.15          | .....     | 3.16          | .....     | 2.46          | .....     | 5.81          | .....     | 4.62          | .....     | 1.92          | .....     | 1.58          | .....     | 1.35          | .....     | 2.80          | .....     | 5.85          | .....     | 3.09          | .....     | 3.00          | .....     | 38.79         | .....     |
| Hollisterville     | 2.79          | .....     | 3.07          | .....     | 2.39          | .....     | 5.63          | .....     | 4.24          | .....     | 2.60          | .....     | 1.23          | .....     | 1.27          | .....     | 8.59          | .....     | 6.24          | .....     | 3.07          | .....     | 3.25          | .....     | 44.37         | .....     |
| Lakeville          | 3.38          | .....     | 3.42          | .....     | 2.68          | .....     | 6.19          | .....     | 5.45          | .....     | 1.95          | .....     | 1.65          | .....     | 0.80          | .....     | 4.10          | .....     | 5.88          | .....     | 3.32          | .....     | 2.84          | .....     | 41.66         | .....     |
| Lansford           | 4.06          | +0.68     | 2.34          | -0.57     | 2.35          | -1.16     | 5.27          | +1.54     | 4.29          | +0.84     | 4.46          | +0.23     | 1.39          | -3.27     | 5.41          | +0.65     | 4.30          | +0.48     | 6.10          | +1.76     | 3.22          | +0.91     | 2.35          | -1.33     | 45.54         | +0.76     |
| Mauch Chunk        | 4.14          | +0.36     | 3.09          | -0.78     | 3.48          | -1.02     | 5.88          | +1.96     | 3.94          | -0.07     | 3.84          | -0.46     | 2.18          | -2.92     | 3.74          | -1.23     | 5.33          | +1.46     | 5.77          | +2.01     | 3.59          | +0.26     | 3.06          | -1.18     | 48.04         | -1.61     |
| Mount Pocono       | 4.08          | +0.93     | 5.17          | +2.26     | 2.56          | -1.20     | 4.29          | +0.11     | 4.09          | +0.30     | 4.45          | -0.34     | 3.02          | -2.14     | 4.13          | -0.21     | 7.43          | +2.54     | 8.23          | +3.21     | 4.16          | +1.44     | 3.45          | -0.38     | 55.06         | +6.52     |
| Narberth           | 3.01          | .....     | 4.24          | .....     | 2.49          | .....     | 7.22          | .....     | 3.51          | .....     | 2.69          | .....     | 1.63          | .....     | 2.86          | .....     | 5.47          | .....     | 5.03          | .....     | 3.20          | .....     | 3.15          | .....     | 41.56         | .....     |
| Neshaminy Falls    | 2.52          | .....     | 3.71          | .....     | 2.57          | .....     | 6.99          | .....     | 3.75          | .....     | 2.52          | .....     | 1.62          | .....     | 4.22          | .....     | 6.21          | .....     | 4.96          | .....     | 2.43          | .....     | 2.32          | .....     | 43.82         | .....     |
| Palmerton          | 2.95          | .....     | 2.56          | .....     | 1.81          | .....     | 4.49          | .....     | 3.83          | .....     | 3.55          | .....     | 2.09          | .....     | 5.32          | .....     | 3.80          | .....     | 5.65          | .....     | 2.65          | .....     | 1.32          | .....     | 40.02         | .....     |
| Paupack            | 3.45          | .....     | 3.11          | .....     | 2.03          | .....     | 5.00          | .....     | 4.65          | .....     | 2.28          | .....     | 1.46          | .....     | 1.15          | .....     | 5.33          | .....     | 6.02          | .....     | 2.68          | .....     | 3.32          | .....     | 40.48         | .....     |
| Philadelphia       | 2.70          | -0.60     | 4.24          | +0.92     | 2.22          | -1.17     | 6.44          | +3.39     | 2.28          | -0.98     | 2.74          | -0.50     | 1.53          | -2.62     | 3.22          | -1.40     | 6.51          | +3.37     | 3.59          | +0.78     | 3.11          | +0.41     | 2.98          | -0.45     | 41.56         | +1.15     |
| Philadelphia-Gtn.  | 2.84          | .....     | 4.38          | .....     | 2.16          | .....     | 6.10          | .....     | 2.12          | .....     | 3.71          | .....     | 1.63          | .....     | 3.38          | .....     | 6.78          | .....     | 3.75          | .....     | 2.66          | .....     | 2.94          | .....     | 42.45         | .....     |
| Phila. Navy Yard   | 2.96          | -0.27     | 3.78          | +0.56     | 3.33          | -0.99     | 5.62          | +2.38     | 1.96          | -1.35     | 3.02          | -0.62     | 1.20          | -1.18     | 2.86          | -2.04     | 5.40          | +2.33     | 4.75          | +2.10     | 2.75          | +0.27     | 2.50          | -0.78     | 39.13         | -2.59     |
| Phila-Point Breeze | 2.82          | .....     | 3.97          | .....     | 2.27          | .....     | 5.56          | .....     | 2.16          | .....     | 2.96          | .....     | 1.41          | .....     | 2.75          | .....     | 6.38          | .....     | 3.13          | .....     | 3.17          | .....     | 3.17          | .....     | 39.75         | .....     |
| Phoenixville       | 3.54          | -0.41     | 4.80          | +1.59     | 2.29          | -1.36     | 5.95          | +2.46     | 4.47          | +0.51     | 2.98          | -0.68     | 2.18          | -2.86     | 7.20          | +2.68     | 4.68          | +1.60     | 6.37          | +3.57     | 3.75          | +1.03     | 2.93          | -0.29     | 51.14         | +7.84     |
| Pleasant Mount     | 3.28          | .....     | 3.20          | .....     | 4.01          | .....     | 7.74          | .....     | 4.83          | .....     | 3.96          | .....     | 3.71          | .....     | 2.43          | .....     | 2.09          | .....     | 5.29          | .....     | 4.31          | .....     | .....         | .....     | .....         | .....     |
| Pottstown          | 2.51          | -0.92     | 4.13          | +0.60     | 2.39          | -1.48     | 5.54          | +2.33     | 4.20          | -0.17     | 2.34          | -1.47     | 2.96          | -2.48     | 3.72          | -0.21     | 3.35          | +0.02     | 5.86          | +2.77     | 2.99          | -0.23     | 2.29          | -1.38     | 42.28         | -2.62     |
| Pottsville         | 4.29          | +0.36     | 3.88          | +0.33     | 3.79          | -0.32     | 5.81          | +2.15     | 3.55          | -0.81     | 3.34          | -0.94     | 3.19          | -1.85     | 6.63          | -1.63     | 7.30          | +3.40     | 7.02          | +2.99     | 3.43          | +0.14     | 2.99          | -1.05     | 52.22         | +2.77     |
| Quakertown         | 3.17          | -0.32     | 3.56          | -0.20     | 2.40          | -1.31     | 6.12          | +2.89     | 3.95          | -0.07     | 4.09          | +0.43     | 1.80          | -3.02     | 6.70          | +2.41     | 5.23          | +1.57     | 5.04          | +1.67     | 3.09          | -0.07     | 2.92          | -0.62     | 48.07         | +3.86     |
| Reading            | 3.57          | 0.00      | 3.76          | +0.34     | 2.66          | -0.86     | 5.32          | +2.05     | 3.48          | -0.19     | 3.65          | +0.10     | 2.10          | -2.16     | 3.41          | -0.80     | 4.31          | +1.10     | 6.45          | +2.33     | 2.95          | +0.22     | 2.51          | -1.05     | 43.17         | +1.08     |
| Shawmont           | 3.03          | -0.22     | 3.91          | +0.73     | 1.91          | -1.76     | 7.01          | +3.84     | 3.26          | -0.20     | 2.96          | -0.51     | 1.79          | -2.80     | 4.30          | -0.83     | 4.64          | +1.41     | 4.45          | +1.11     | 2.86          | -0.02     | 3.02          | -0.87     | 43.14         | -0.12     |
| Snow Hill          | 4.67          | .....     | 3.87          | .....     | 2.50          | .....     | 5.58          | .....     | 3.60          | .....     | 2.54          | .....     | 1.86          | .....     | 2.86          | .....     | 5.44          | .....     | 6.86          | .....     | 3.51          | .....     | 2.48          | .....     | 45.27         | .....     |
| Stroudsburg        | 3.37          | +0.15     | 3.11          | +0.12     | 2.29          | -1.56     | 6.19          | +2.41     | 4.73          | +1.12     | 2.95          | -1.24     | 0.19          | -5.61     | 2.88          | -2.43     | 3.51          | +0.56     | 4.98          | +0.88     | 3.58          | +0.14     | 2.35          | -1.37     | 40.12         | -6.83     |
| West Chester       | 2.99          | -0.85     | 4.29          | +0.39     | 2.53          | -1.54     | 6.29          | +2.51     | 5.34          | +0.89     | 4.45          | +0.26     | 2.04          | -2.79     | 4.52          | -0.16     | 4.90          | +0.98     | 5.51          | +1.77     | 3.70          | +0.07     | 3.22          | -0.87     | 49.78         | -0.66     |
| Westgrove          | .....         | .....     | .....         | .....     | .....         | .....     | 4.46          | .....     | 5.79          | .....     | .....         | .....     | .....         | .....     | 0.80          | .....     | 3.53          | .....     | 5.86          | .....     | 3.46          | .....     | 2.22          | .....     | .....         | .....     |
| ALTOONA BASIN.     | 4.12          | +1.62     | 2.43          | +0.32     | 2.22          | -0.45     | 7.67          | +4.80     | 4.87          | +0.85     | 2.60          | -1.32     | 2.18          | -1.09     | 1.28          | -2.11     | 2.70          | -0.08     | 9.39          | +6.90     | 3.06          | +1.75     | 2.74          | +0.35     | 45.86         | +11.55    |
| Ansonia            | 3.17          | +0.76     | 1.77          | -0.16     | 2.12          | -0.15     | 7.22          | +3.58     | 6.23          | +2.35     | 2.84          | -1.31     | 4.60          | +1.38     | 0.41          | -2.94     | 3.86          | +0.65     | 4.19          | +0.98     | 2.50          | +0.79     | 2.43          | +0.55     | 41.46         | +6.48     |
| Arendtsville       | .....         | .....     | .....         | .....     | .....         | .....     | 5.58          | .....     | 5.19          | .....     | 3.60          | .....     | 0.83          | .....     | 1.87          | .....     | 2.28          | .....     | 6.43          | .....     | 2.75          | .....     | 2.25          | .....     | .....         | .....     |
| Baker's Summit     | 3.21          | .....     | 2.51          | .....     | 2.19          | .....     | 5.58          | .....     | 5.19          | .....     | 3.60          | .....     | 0.83          | .....     | 1.87          | .....     | 2.28          | .....     | 6.43          | .....     | 2.75          | .....     | 2.25          | .....     | .....         | .....     |
| Bellefonte         | 2.45          | -0.33     | 2.28          | -0.24     | 1.83          | -1.97     | 5.34          | +1.29     | 4.41          | +0.56     | 2.68          | -2.32     | 1.51          | -2.57     | 1.22          | -3.02     | 3.19          | -0.10     | 7.44          | +4.32     | 2.66          | +0.50     | 1.90          | -0.94     | 36.96         | -4.62     |
| Blossville         | 2.48          | .....     | 1.93          | .....     | 2.53          | .....     | 6.90          | .....     | 4.12          | .....     | 5.15          | .....     | 1.22          | .....     | 1.56          | .....     | 3.70          | .....     | 6.86          | .....     | 3.22          | .....     | 1.75          | .....     | 41.42         | .....     |
| Carlisle           | 3.68          | +0.56     | 3.43          | +0.46     | 2.62          | -0.92     | 7.22          | +3.89     | 4.62          | +0.79     | 6.64          | +2.80     | 1.65          | -2.21     | 2.52          | -2.44     | 3.09          | -0.53.5   |               |           |               |           |               |           |               |           |



Monthly and Annual Precipitation for the Year 1929, with Departures from the Normal.—Continued

| STATIONS         | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |  |
|------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|--|
|                  | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |  |
| Cresson          | 3.46          | .....     | 2.81          | .....     | 2.10          | .....     | 8.33          | .....     | 6.57          | .....     | 3.44          | .....     | 3.77          | .....     | 1.33          | .....     | 2.32          | .....     | 9.92          | .....     | 3.32          | .....     | 2.90          | .....     | 50.27         | .....     |  |
| Derry            | 2.84          | -1.07     | 3.16          | +0.19     | 3.18          | -0.88     | 8.04          | +4.32     | 5.54          | +2.09     | 3.01          | -1.84     | 1.61          | -3.22     | 3.81          | -0.36     | 2.04          | -0.77     | 4.43          | +1.18     | 3.59          | +1.02     | 3.36          | +0.06     | 44.63         | +0.72     |  |
| Donora           | 2.70          | .....     | 3.16          | .....     | 2.49          | .....     | 6.24          | .....     | 5.61          | .....     | 3.09          | .....     | 2.84          | .....     | 4.58          | .....     | 2.01          | .....     | 5.67          | .....     | 3.56          | .....     | 2.26          | .....     | 44.15         | .....     |  |
| Ebensburg        | 2.37          | -0.91     | 2.38          | -0.48     | 1.37          | -1.37     | 5.98          | +2.24     | 4.48          | +0.23     | 4.89          | +0.20     | 4.33          | +0.68     | 2.53          | -1.59     | 2.49          | -1.07     | 6.02          | +2.64     | 3.92          | +0.62     | 2.85          | +0.26     | 43.61         | +0.85     |  |
| Elk Lick         | 2.72          | .....     | 2.12          | .....     | 2.52          | .....     | 8.94          | .....     | 5.11          | .....     | 5.73          | .....     | 2.55          | .....     | 4.95          | .....     | 2.20          | .....     | 7.94          | .....     | 4.12          | .....     | 4.13          | .....     | 53.03         | .....     |  |
| Falls Creek      | 5.20          | .....     | 2.83          | .....     | 3.48          | .....     | 6.02          | .....     | 6.32          | .....     | 3.03          | .....     | 4.77          | .....     | 1.14          | .....     | 2.47          | .....     | 6.14          | .....     | 3.08          | .....     | 3.51          | .....     | 47.99         | .....     |  |
| Franklin         | 4.51          | +0.89     | 2.56          | -0.33     | 4.29          | +0.84     | 6.89          | +3.86     | 6.30          | +2.81     | 2.79          | -1.98     | 6.97          | +2.49     | 1.20          | -2.60     | 3.18          | -0.31     | 5.07          | +1.96     | 4.28          | +1.27     | 3.11          | -0.21     | 51.15         | +8.69     |  |
| Freepot          | 3.79          | -0.06     | 2.83          | -0.33     | 2.79          | -0.84     | 5.62          | +2.30     | 5.51          | +1.63     | 1.65          | -2.61     | 3.82          | -0.36     | 2.85          | -1.37     | 2.89          | +0.02     | 5.52          | +2.63     | 3.37          | +0.48     | 2.67          | +0.71     | 42.81         | +0.78     |  |
| Greensboro       | 2.76          | -0.68     | 2.86          | -0.11     | 2.66          | -0.96     | 6.11          | +2.73     | 5.74          | +1.86     | 3.19          | -1.64     | 1.88          | -2.94     | 4.06          | +0.54     | 5.49          | +2.52     | 5.65          | +2.73     | 3.62          | +0.72     | 2.48          | -0.67     | 46.45         | +4.10     |  |
| Greensburg       | 3.23          | -0.52     | 3.61          | +0.75     | 3.31          | +0.51     | 6.88          | +3.23     | 5.85          | +2.12     | 3.88          | -0.22     | 1.81          | -1.98     | 3.31          | -1.06     | 2.06          | -1.14     | 4.22          | +1.09     | 3.92          | +1.96     | 3.72          | +0.57     | 45.80         | +5.31     |  |
| Greenville       | 3.63          | -0.09     | 1.80          | -0.79     | 4.17          | +0.51     | 6.80          | +3.53     | 6.82          | +3.22     | 2.94          | -1.27     | 3.94          | -0.42     | 1.72          | -2.04     | 1.95          | -1.27     | 4.07          | +0.42     | 4.99          | +2.29     | 3.52          | +0.53     | 46.35         | +4.62     |  |
| Grove City       | 3.35          | -0.17     | 2.55          | +0.21     | 4.45          | +1.42     | 6.55          | +2.52     | 6.36          | +2.56     | 3.38          | -0.66     | 6.54          | +2.32     | 1.24          | -2.43     | 3.64          | +0.56     | 4.60          | +1.02     | 4.27          | +2.13     | 2.82          | -0.03     | 49.75         | +9.45     |  |
| Herrs Island Dam | 3.55          | +0.50     | 2.09          | -0.29     | 2.24          | -1.26     | 4.62          | +1.55     | 5.66          | +2.84     | 2.69          | -1.49     | 2.28          | -1.19     | 1.85          | -1.57     | 1.20          | -1.16     | 5.18          | +2.42     | 3.60          | +1.83     | 2.01          | -0.80     | 36.92         | +1.33     |  |
| Ingram           | 3.61          | .....     | 2.81          | .....     | 2.45          | .....     | 5.09          | .....     | 6.12          | .....     | 2.85          | .....     | 2.80          | .....     | 2.03          | .....     | 1.43          | .....     | 6.37          | .....     | 3.89          | .....     | 2.44          | .....     | 41.89         | .....     |  |
| Irwin            | 2.96          | -0.08     | 2.74          | +0.49     | 1.87          | -1.67     | 5.01          | +1.66     | 3.91          | +0.67     | 2.75          | -1.90     | 2.83          | -1.33     | 3.09          | -0.98     | 1.92          | -0.85     | 3.28          | +0.45     | 3.11          | +0.85     | 2.89          | +0.06     | 36.36         | -2.75     |  |
| Johnstown        | .....         | .....     | .....         | .....     | .....         | .....     | 7.58          | +3.62     | 6.08          | +1.49     | 6.64          | +1.45     | 1.41          | -2.99     | 3.24          | -1.31     | 2.83          | -0.67     | 2.37          | +3.28     | 3.88          | +0.96     | 3.70          | +0.05     | .....         | .....     |  |
| Kregar           | 3.34          | .....     | 3.09          | .....     | 3.28          | .....     | 7.86          | .....     | 4.79          | .....     | 5.20          | .....     | 2.97          | .....     | 4.69          | .....     | 3.07          | .....     | 5.93          | .....     | 3.32          | .....     | 2.26          | -0.63     | 45.64         | +6.77     |  |
| Lock No. 4       | 3.02          | -0.17     | 2.96          | +0.23     | 2.89          | -0.41     | 6.76          | +3.59     | 6.35          | +2.68     | 3.32          | -0.69     | 1.94          | -2.41     | 4.42          | +0.80     | 2.24          | -0.54     | 5.66          | +2.90     | 3.82          | +1.42     | 2.26          | -0.63     | 45.64         | +6.77     |  |
| Lycippus         | 3.04          | -1.03     | 2.02          | -1.02     | 3.53          | -0.21     | 8.11          | +4.33     | 8.36          | +4.40     | 4.81          | +0.32     | 2.02          | -3.02     | 4.35          | +0.04     | 3.42          | +0.39     | 4.58          | +1.53     | 2.67          | +0.11     | 3.53          | -0.16     | 50.44         | +5.68     |  |
| Meadville        | 4.97          | .....     | 1.67          | .....     | 3.94          | .....     | 5.83          | .....     | 7.48          | .....     | 2.80          | .....     | 5.49          | .....     | 0.54          | .....     | 2.90          | .....     | 2.98          | .....     | 4.90          | .....     | 3.26          | .....     | 46.76         | .....     |  |
| Mt. Lebanon      | 3.07          | .....     | 2.78          | .....     | 2.20          | .....     | 5.23          | .....     | 7.21          | .....     | 3.27          | .....     | 3.27          | .....     | 2.84          | .....     | 1.55          | .....     | 5.72          | .....     | 4.09          | .....     | 2.39          | .....     | 43.62         | .....     |  |
| New Castle       | 4.03          | +1.12     | 3.33          | +0.92     | 3.34          | +0.59     | 7.18          | +4.25     | 7.57          | +4.27     | 3.59          | -0.85     | 6.92          | +2.78     | 1.41          | -1.80     | 2.96          | -0.18     | 4.63          | +1.89     | 4.07          | +1.91     | 3.81          | +1.85     | 52.84         | +16.25    |  |
| Newell           | 2.54          | .....     | 2.41          | .....     | 1.84          | .....     | 5.38          | .....     | 3.84          | .....     | 1.87          | .....     | 1.51          | .....     | 2.86          | .....     | 2.31          | .....     | 4.20          | .....     | 3.66          | .....     | 1.21          | .....     | 33.13         | .....     |  |
| Parkers Landing  | 5.82          | +2.41     | 3.05          | -0.03     | 4.15          | +0.57     | 7.90          | +4.34     | 6.80          | +2.98     | 4.00          | -0.34     | 6.31          | +1.97     | 1.79          | -2.38     | 4.58          | +1.28     | 5.94          | +3.06     | 4.33          | +1.48     | 4.02          | +0.84     | 58.69         | +16.18    |  |
| Pittsline        | 3.43          | .....     | 1.69          | .....     | 2.58          | .....     | 6.87          | .....     | 6.20          | .....     | 3.24          | .....     | 4.58          | .....     | 1.01          | .....     | 3.48          | .....     | 2.55          | .....     | 5.07          | .....     | 3.06          | .....     | .....         | .....     |  |
| Ridgway          | 3.33          | +0.28     | 2.62          | 0.00      | 2.15          | -0.88     | 4.29          | +1.37     | 5.38          | +2.17     | 2.21          | -1.60     | 3.50          | -0.55     | 1.79          | -1.44     | 1.05          | -1.53     | 5.07          | +2.55     | 3.38          | +1.09     | 2.15          | -0.71     | 36.92         | +0.75     |  |
| Saltsburg        | 4.93          | +2.16     | 3.08          | +0.69     | .....         | .....     | 4.54          | +1.63     | 4.36          | +0.18     | 2.58          | -1.85     | 6.69          | +2.72     | .....         | .....     | 3.66          | +0.78     | 5.10          | +1.88     | 4.12          | +1.48     | 2.85          | +0.31     | .....         | .....     |  |
| Sharon           | 3.14          | -0.64     | 2.57          | -0.12     | 2.26          | -0.93     | 6.94          | +3.61     | 6.96          | +3.54     | 1.95          | -2.07     | 2.60          | -1.35     | 2.98          | -0.92     | 1.32          | -2.01     | 4.53          | +1.36     | 3.87          | +1.77     | 3.06          | -0.24     | 42.48         | +2.00     |  |
| Somerset         | 2.95          | .....     | 2.05          | .....     | 2.58          | .....     | 6.24          | .....     | 5.60          | .....     | 1.97          | .....     | 5.17          | .....     | 0.99          | .....     | 1.75          | .....     | 2.74          | .....     | 4.80          | .....     | 2.92          | .....     | 39.76         | .....     |  |
| Springdale       | 2.32          | 2.44      | 2.43          | -1.55     | 2.74          | -1.60     | 7.48          | +2.84     | 5.41          | +0.39     | 3.62          | -1.52     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |  |
| Uniontown        | 3.38          | -0.30     | 2.69          | +0.17     | 2.77          | -0.64     | 5.50          | +2.22     | 5.88          | +2.32     | 3.17          | -1.09     | 3.15          | -0.64     | 3.13          | -1.18     | 1.81          | -1.38     | 4.96          | +1.64     | 3.94          | +1.91     | 2.39          | -0.78     | 42.77         | +2.25     |  |
| Unity Reservoir  | 2.40          | -1.45     | 1.92          | -1.21     | 3.19          | -0.77     | 5.85          | +3.10     | 4.35          | +0.28     | 5.40          | +0.49     | 2.42          | -2.64     | 4.99          | +0.16     | 3.74          | +0.56     | 5.24          | +2.03     | 3.64          | +0.53     | 2.72          | -0.88     | 45.86         | -0.80     |  |
| Vandersgrift     | 3.24          | .....     | 2.79          | .....     | 3.12          | .....     | 7.25          | .....     | 6.17          | .....     | 4.04          | .....     | 3.02          | .....     | 3.33          | .....     | 2.49          | .....     | 3.92          | .....     | 3.79          | .....     | 3.62          | .....     | 46.78         | .....     |  |
| Warren           | 2.86          | .....     | 2.45          | .....     | 1.89          | .....     | 4.48          | .....     | 4.79          | .....     | 3.67          | .....     | 2.69          | .....     | 3.19          | .....     | 1.35          | .....     | 5.16          | .....     | 3.25          | .....     | 2.10          | .....     | 37.88         | .....     |  |
| Westford         | 4.74          | +1.81     | 1.38          | -1.27     | 4.50          | +1.37     | 7.58          | +4.07     | 6.36          | +1.91     | 3.85          | -0.47     | 5.10          | +0.27     | 1.20          | -2.90     | 4.50          | +0.87     | 5.16          | +1.71     | 4.34          | +1.01     | 2.82          | -0.29     | 51.53         | +8.09     |  |
| West Newton      | 4.53          | .....     | 2.59          | .....     | 4.21          | .....     | 5.04          | .....     | 6.10          | .....     | 3.56          | .....     | 5.29          | .....     | 1.96          | .....     | 4.08          | .....     | 3.27          | .....     | 4.89          | .....     | 2.02          | .....     | 47.54         | .....     |  |
| Zelienople       | 2.81          | -0.68     | 2.87          | -0.19     | 2.03          | -1.60     | 6.12          | +2.80     | 6.07          | +2.51     | 3.51          | -0.64     | 3.13          | -1.36     | 3.25          | -0.70     | 2.17          | -0.45     | 3.73          | +1.04     | 3.75          | +1.43     | 3.04          | -0.25     | 42.48         | +1.93     |  |
|                  | 4.17          | .....     | 1.41          | .....     | 3.75          | .....     | 3.62          | .....     | 5.34          | .....     | 2.71          | .....     | 5.02          | .....     | 1.68          | .....     | 8.72          | .....     | .....         | .....     | 4.64          | .....     | 4.64          | .....     | 53.17         | .....     |  |
| POTOMAC BASIN    |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |  |
| Chambersburg     | 3.40          | +0.81     | 2.95          | +0.04     | 2.87          | -0.13     | 6.31          | +3.47     | 4.32          | +0.67     | 3.14          | -0.87     | 1.74          | -1.54     | 4.12          | -0.12     | 3.94          | +1.20     | 6.30          | +3.10     | 3.22          | +0.57     | 2.17          | -0.45     | 44.48         | +6.75     |  |
| Gettysburg       | 4.35          | +1.21     | 2.96          | +0.15     | 2.91          | -0.25     | 7.00          | +3.40     | 5.93          | +1.96     | 3.70          | -0.20     | 2.85          | -0.77     | 1.87          | -2.20     | 2.16          | -1.21     | 6.01          | +2.81     | 3.03          | +0.36     | 2.43          | -0.90     | 45.27         | +4.86     |  |
| Hyndman          | 2.15          | -1.45     | 2.02          | -0.72     | 1.88          | -1.47     | 6.30          | +2.73     | 3.62          | +0.42     | 4.77          | -0.55     | 1.22          | -1.89     | 2.63          | -1.65     | 2.08          | -1.08     | 7.03          | +4.17     | 3.02          | +1.48     | 1.62          | -1.25     | 38.34         | -1.26     |  |
| LAKE BASIN       |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |  |
| Erie             | 3.26          | +0.49     | 1.36          | -1.22     | 3.05          | +0.43     | 5.57          | +2.84     | 3.89          | +0.49     | 1.38          | -1.96     | 1.99          | -1.02     | 0.29          | -2.98     | 1.89          | -1.50     | 1.65          | -2.04     | 4.65          | +1.35     | 4.38          | +1.55     | 33.36         | -3.57     |  |
|                  | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |  |
|                  | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |  |



Monthly and Annual Mean Temperatures for the Year 1929, with Departures from the Normal

| STATIONS.               | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|-------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                         | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| Atlantic Drainage.      |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Allentown.....          | 28.4        | .....     | 29.2        | .....     | 43.6        | .....     | 51.0        | .....     | 59.8        | .....     | 69.9        | .....     | 73.6        | .....     | 69.8        | .....     | 66.8        | .....     | 50.7        | .....     | 42.6        | .....     | 30.5        | .....     | 51.3        | .....     |
| Altoona.....            | 24.8        | -2.5      | 25.1        | -0.7      | 42.8        | +5.5      | 51.2        | +3.0      | 56.8        | -2.6      | 66.4        | +0.2      | 70.4        | -0.7      | 66.8        | -2.8      | 67.1        | +4.4      | 50.4        | -1.5      | 39.2        | -1.6      | 32.6        | +3.6      | 49.5        | +0.4      |
| Arendtsville.....       | 24.8        | .....     | 24.0        | .....     | 40.8        | .....     | 49.4        | .....     | 55.8        | .....     | 64.9        | .....     | 68.4        | .....     | 65.3        | .....     | 64.2        | .....     | 48.0        | .....     | 33.0        | .....     | 30.3        | .....     | 47.8        | .....     |
| Bellefonte.....         | 30.2        | +0.3      | 32.4        | +2.6      | 46.2        | +6.6      | 53.3        | +1.4      | 61.6        | -1.4      | 71.6        | +1.8      | 74.9        | +0.2      | 71.4        | -2.3      | 63.6        | +2.4      | 54.0        | -1.5      | 45.6        | +1.6      | 32.8        | -0.3      | 53.6        | +1.0      |
| Bethlehem.....          | 29.3        | +1.4      | 29.9        | +0.5      | 46.2        | +8.7      | 54.8        | +2.6      | 60.8        | -0.6      | 71.0        | +0.1      | 74.6        | -0.2      | 71.4        | -1.3      | 67.8        | +3.1      | 52.1        | -0.2      | 43.4        | +2.7      | 31.6        | +0.3      | 52.7        | +1.4      |
| Carlisle.....           | 28.0        | -0.1      | 28.9        | -0.2      | 43.6        | +6.0      | 51.1        | -0.2      | 58.7        | -2.7      | 69.1        | +1.4      | 72.4        | -0.3      | 67.8        | -2.5      | 65.0        | +1.5      | 49.0        | -4.6      | 41.5        | -0.9      | 30.8        | -0.8      | 50.5        | -0.3      |
| Catawissa.....          | 24.8        | -0.6      | 25.9        | 0.0       | 40.4        | +4.6      | 50.0        | +1.1      | 55.7        | -4.1      | 66.4        | +0.3      | 68.1        | -3.3      | 65.3        | -3.9      | 64.2        | +2.2      | 50.5        | -0.9      | 36.9        | -3.0      | 31.7        | +2.7      | 48.3        | -0.4      |
| Center Hall.....        | 28.8        | +0.1      | 29.7        | -1.1      | 44.8        | +6.4      | 53.2        | +3.4      | 59.4        | -1.8      | 68.8        | -0.6      | 72.4        | -2.3      | 69.5        | -2.7      | 66.6        | +0.7      | 51.4        | -1.4      | 43.1        | +1.7      | 32.9        | 0.0       | 51.7        | +0.2      |
| Clearfield.....         | 25.4        | -1.5      | 25.6        | -1.9      | 42.7        | +5.2      | 51.1        | +2.8      | 57.8        | -2.0      | 67.5        | +0.2      | 70.7        | -0.8      | 68.4        | -1.5      | 66.4        | +3.2      | 50.4        | -2.6      | 38.3        | -2.4      | 31.6        | +2.9      | 49.7        | +0.2      |
| Coatesville.....        | 28.8        | -1.6      | 29.8        | -0.1      | 44.8        | +5.4      | 52.2        | +1.4      | 59.8        | -1.9      | 69.9        | 0.0       | 73.4        | -1.3      | 69.8        | +0.1      | 67.2        | +1.1      | 50.8        | -3.5      | 43.4        | +0.6      | 33.3        | +0.3      | 51.9        | 0.0       |
| Colebrook.....          | 27.5        | -1.0      | 28.6        | -1.2      | 43.8        | +3.2      | 51.4        | +1.5      | 58.8        | -0.2      | 67.4        | -1.7      | 70.6        | -1.9      | 68.0        | -2.6      | 64.6        | +0.5      | 50.0        | -3.0      | 41.6        | +0.6      | 31.4        | -0.5      | 50.3        | -0.4      |
| Emporium.....           | 23.7        | -2.1      | 24.2        | -0.5      | 40.5        | +5.5      | 48.8        | +1.7      | 55.6        | -3.1      | 64.2        | -2.0      | 67.8        | -2.4      | 63.7        | -4.2      | 62.6        | +1.2      | 47.0        | -3.0      | 37.6        | -1.6      | 30.2        | +1.1      | 47.2        | -0.7      |
| Ephrata.....            | 30.3        | +1.0      | 31.4        | +3.3      | 45.6        | +6.6      | 52.6        | +2.6      | 60.4        | -0.5      | 69.8        | +1.8      | 73.0        | -1.0      | 69.5        | -2.3      | 66.9        | +1.4      | 51.8        | -3.3      | 44.4        | +2.0      | 33.6        | +2.3      | 52.4        | +1.1      |
| Freeland.....           | 21.8        | .....     | 24.2        | .....     | 38.8        | .....     | 46.4        | .....     | 57.2        | .....     | 66.6        | .....     | 70.2        | .....     | 66.0        | .....     | 64.8        | .....     | 49.2        | .....     | 39.4        | .....     | 30.0        | .....     | 47.9        | .....     |
| George School.....      | 32.1        | +1.3      | 32.8        | +3.1      | 46.3        | +7.1      | 52.6        | +2.5      | 60.9        | -0.1      | 71.6        | +3.9      | 74.1        | +0.5      | 70.8        | -0.6      | 68.0        | +3.1      | 53.2        | -1.7      | 45.2        | +2.6      | 33.6        | +1.3      | 53.4        | +1.9      |
| Gettysburg.....         | 29.6        | +0.6      | 31.2        | +0.9      | 46.8        | +7.6      | 54.8        | +4.4      | 61.5        | +0.2      | 70.9        | +1.3      | 74.0        | 0.0       | 71.2        | -0.5      | 68.4        | +3.4      | 52.8        | +0.6      | 44.7        | +3.4      | 34.6        | +2.9      | 53.4        | +2.1      |
| Gordon.....             | 26.8        | +0.4      | 27.0        | +1.7      | 41.6        | +5.7      | 50.0        | +2.1      | 57.0        | -1.5      | 65.6        | +0.4      | 69.7        | -0.5      | 65.6        | -2.6      | 63.8        | +2.0      | 48.4        | -2.3      | 40.6        | +1.6      | 30.6        | +2.1      | 48.9        | +0.8      |
| Gouldsboro.....         | 20.8        | .....     | 21.8        | .....     | 36.2        | .....     | 44.4        | .....     | 52.8        | .....     | 62.0        | .....     | 65.4        | .....     | 60.7        | .....     | 59.9        | .....     | 44.6        | .....     | 37.0        | .....     | 27.6        | .....     | 44.4        | .....     |
| Hamburg.....            | 28.8        | +0.1      | 29.6        | +0.8      | 43.4        | +5.0      | 51.5        | +1.1      | 59.1        | -2.6      | 68.8        | -0.7      | 71.6        | -2.3      | 69.1        | -2.6      | 66.2        | +0.7      | 51.4        | -2.5      | 41.6        | -0.6      | 30.2        | -1.8      | 50.9        | -0.5      |
| Hanover.....            | 31.6        | -1.3      | 33.1        | +1.4      | 48.6        | +7.0      | 55.2        | +2.2      | 61.8        | -2.1      | 70.8        | +0.2      | 74.5        | -1.0      | 72.0        | -1.6      | 69.0        | +1.8      | 53.8        | -2.3      | 46.2        | +2.0      | 37.0        | +3.2      | 54.5        | +0.8      |
| Harrisburg.....         | 30.4        | +1.4      | 30.9        | +0.7      | 45.8        | +6.9      | 53.4        | +2.5      | 60.8        | -1.0      | 70.6        | +0.3      | 73.9        | -0.9      | 71.2        | -1.4      | 67.4        | +1.6      | 52.4        | -2.4      | 43.7        | +0.9      | 33.4        | +0.7      | 52.8        | +0.7      |
| Hawley.....             | 24.4        | .....     | 25.0        | .....     | 40.2        | .....     | 48.4        | .....     | 56.6        | .....     | 65.6        | .....     | 69.4        | .....     | 65.0        | .....     | 63.2        | .....     | 47.7        | .....     | 39.3        | .....     | 29.0        | .....     | 47.8        | .....     |
| Holtwood.....           | 31.4        | .....     | 31.6        | .....     | 45.6        | .....     | 55.4        | .....     | 62.8        | .....     | 73.4        | .....     | 77.2        | .....     | 72.2        | .....     | 71.5        | .....     | 55.7        | .....     | 47.4        | .....     | 34.2        | .....     | 55.1        | .....     |
| Huntingdon.....         | 27.3        | -1.3      | 27.6        | -0.8      | 43.8        | +5.5      | 53.0        | +3.4      | 59.4        | -1.3      | 68.4        | +0.2      | 71.8        | -0.4      | 67.8        | -2.9      | 66.1        | +1.8      | 50.4        | -2.1      | 40.8        | -0.7      | 34.1        | +2.6      | 50.9        | +0.4      |
| Hyndman.....            | 29.2        | -0.5      | 29.8        | -0.3      | 45.4        | +5.5      | 54.4        | +3.5      | 59.8        | -1.0      | 70.2        | +2.8      | 73.4        | +1.4      | 70.3        | -0.6      | 67.8        | +3.8      | 51.8        | -1.5      | 42.6        | +0.6      | 36.0        | +3.9      | 52.6        | +2.1      |
| Kylertown.....          | 30.1        | +0.5      | 30.3        | +0.5      | 45.0        | +7.0      | 53.0        | +2.2      | 59.8        | -1.2      | 63.8        | -1.3      | 72.4        | -1.0      | 69.0        | -3.7      | 66.3        | +1.8      | 51.4        | -2.0      | 43.7        | +0.6      | 32.8        | -0.6      | 51.9        | +0.3      |
| Lancaster.....          | 24.9        | +0.3      | 24.4        | +1.4      | 40.1        | +6.1      | 48.8        | +3.0      | 56.4        | -1.1      | 65.8        | +0.6      | 68.8        | -1.4      | 62.4        | -5.7      | 60.8        | -0.5      | 46.2        | -4.3      | 38.3        | -0.3      | 28.8        | +1.4      | 47.2        | 0.0       |
| Lebanon.....            | 28.4        | -0.6      | 29.6        | +0.9      | 44.9        | +6.3      | 52.4        | +1.9      | 60.0        | -1.0      | 70.0        | +0.7      | 73.4        | -0.2      | 69.6        | -2.4      | 66.4        | +1.2      | 51.4        | -1.8      | 42.8        | +0.6      | 33.4        | +1.5      | 51.9        | +0.6      |
| Lewisburg.....          | 27.8        | +2.4      | 28.2        | +2.4      | 44.8        | +9.5      | 52.2        | +4.0      | 60.0        | +1.5      | 69.6        | +2.4      | 74.6        | +3.1      | 70.2        | +1.3      | 68.6        | +6.6      | 51.3        | +1.1      | 41.9        | +2.8      | 31.6        | +2.6      | 51.7        | +3.3      |
| Lock Haven.....         | 28.2        | +0.8      | 28.5        | +1.4      | 45.2        | +7.4      | 54.0        | +3.7      | 61.4        | -0.5      | 69.6        | +0.2      | 73.4        | +0.1      | 69.4        | -1.9      | 66.8        | +2.1      | 51.0        | -2.3      | 42.4        | +0.5      | 32.6        | +1.5      | 51.9        | +1.1      |
| Lvks.....               | 28.2        | +1.0      | 29.2        | -0.9      | 44.4        | +4.9      | 52.9        | +2.2      | 58.9        | -0.2      | 67.9        | -0.3      | 70.8        | -1.0      | 67.4        | -2.8      | 65.4        | +1.2      | 50.8        | -2.6      | 42.8        | +1.8      | 32.6        | +1.9      | 50.9        | +0.4      |
| Mauch Chunk.....        | 27.4        | 0.0       | 28.0        | +1.0      | 41.2        | +4.4      | 49.4        | +0.6      | 58.3        | -1.8      | 67.2        | -0.6      | 70.7        | -1.6      | 65.4        | -4.9      | 62.2        | -1.8      | 49.4        | -2.9      | 41.0        | +0.4      | 30.4        | -0.1      | 49.2        | -0.6      |
| Mifflintown.....        | 27.6        | 0.0       | 28.0        | +1.3      | 43.4        | +5.4      | 52.2        | +2.4      | 58.8        | -1.9      | 68.6        | +0.8      | 72.5        | -0.2      | 69.1        | -1.5      | 66.4        | +2.6      | 50.2        | -2.2      | 41.4        | +0.8      | 31.4        | +1.2      | 50.8        | +0.7      |
| Montrose.....           | 23.2        | +0.7      | 23.8        | +3.8      | 38.2        | +7.1      | 46.8        | +2.7      | 53.1        | -1.9      | 63.1        | +0.4      | 67.3        | -0.9      | 63.8        | -3.1      | 62.6        | +2.5      | 46.6        | -2.4      | 36.8        | -0.1      | 27.6        | +2.0      | 46.1        | +0.9      |
| Mount Pocono.....       | 22.6        | -0.3      | 22.2        | +1.5      | 35.4        | +3.4      | 44.8        | +1.8      | 53.6        | -1.1      | 63.9        | +2.3      | 66.7        | +0.5      | 63.4        | -0.8      | 62.5        | +4.4      | 46.2        | -1.2      | 37.0        | +1.2      | 29.0        | +4.0      | 45.6        | +1.3      |
| Muncy Valley.....       | 26.0        | +1.5      | 26.2        | +0.5      | 40.4        | +4.4      | 49.0        | +0.8      | 55.9        | -1.3      | 65.6        | -0.1      | 70.0        | +3.3      | 66.1        | -1.6      | 63.7        | +2.3      | 48.2        | -2.4      | 38.8        | -0.4      | 29.5        | +1.8      | 48.3        | +0.5      |
| Narberth.....           | 30.4        | .....     | 31.8        | .....     | 46.6        | .....     | 52.8        | .....     | 60.4        | .....     | 70.6        | .....     | 73.2        | .....     | 69.9        | .....     | 67.3        | .....     | 52.4        | .....     | 44.2        | .....     | 34.0        | .....     | 51.8        | .....     |
| Neshaminy Falls.....    | 29.2        | +1.6      | 29.1        | 0.0       | 44.4        | +4.9      | 51.3        | +1.2      | 60.6        | +1.3      | 69.6        | +0.4      | 73.2        | +0.1      | 69.9        | -1.1      | 66.8        | +1.4      | 51.6        | -2.4      | 44.0        | +2.5      | 32.0        | +0.2      | 51.8        | +0.8      |
| Palmerston.....         | 28.2        | .....     | 28.3        | .....     | 42.6        | .....     | 49.9        | .....     | 58.3        | .....     | 67.2        | .....     | 71.2        | .....     | 67.0        | .....     | 64.4        | .....     | 49.6        | .....     | 41.2        | .....     | 31.6        | .....     | 50.0        | .....     |
| Philadelphia.....       | 34.2        | +1.6      | 35.2        | +1.3      | 48.4        | +7.6      | 55.2        | +3.1      | 62.8        | -0.1      | 72.8        | +1.4      | 76.8        | +0.6      | 73.2        | -1.6      | 70.3        | +2.3      | 55.8        | -2.0      | 47.4        | +1.7      | 38.2        | +1.9      | 55.9        | +1.5      |
| Philadelphia-Gtn.....   | 34.2        | .....     | 35.2        | .....     | 48.2        | .....     | 54.6        | .....     | 62.6        | .....     | 73.5        | .....     | 77.1        | .....     | 73.4        | .....     | 69.7        | .....     | 55.2        | .....     | 46.8        | .....     | 36.8        | .....     | 55.6        | .....     |
| Phila-Navy Yard.....    | 32.6        | +1.3      | 33.6        | +0.3      | 46.6        | +4.5      | 53.2        | +1.7      | 61.4        | -0.3      | 72.1        | +0.3      | 75.7        | 0.0       | 72.8        | -1.2      | 69.2        | +1.2      | 54.2        | -3.2      | 46.4        | +1.0      | 36.1        | +1.1      | 54.5        | +0.5      |
| Phila-Point Breeze..... | 33.0        | .....     | 34.4        | .....     | 47.8        | .....     | 54.6        | .....     | 63.0        | .....     | 73.0        | .....     | 76.8        | .....     | 73.6        | .....     | 70.2        | .....     | 56.2        | .....     | 47.8        | .....     | 36.8        | .....     | 55.6        | .....     |
| Phoenixville.....       | 32.2        | +2.4      | 32.8        | +1.0      | 47.7        | +7.1      | 54.9        | +2.7      | 62.4        | +1.4      | 72.3        | +0.8      | 76.0        | +1.5      | 71.8        | -0        |             |           |             |           |             |           |             |           |             |           |



## COOPERATIVE AND RAINFALL OBSERVERS

| Stations           | Observers                 | Stations               | Observers                | Stations                 | Observers                |
|--------------------|---------------------------|------------------------|--------------------------|--------------------------|--------------------------|
| Allentown.....     | John A. Frick.            | Gordon.....            | Capt. J. G. Johnson.     | Penn Line.....           | Retta Crumb.             |
| Altoona.....       | F. E. Rooney.             | Gouldsboro.....        | Gustav Holtz.            | Philadelphia.....        | U. S. Weather Bureau.    |
| Ansonia.....       | Paul H. Mulford.          | Graterford.....        | C. K. Kulp.              | Philadelphia-Gtn.....    | Julius Bernstein.        |
| Arendtsville.....  | Dr. S. W. Frost.          | Greensburg.....        | Westmoreland Water Co.   | Philadelphia.....        | Commandant, Navy         |
| Bakers Summit..... | M. Snyder.                | Greenville.....        | J. R. Marks.             | Navy Yard.....           | Yard.                    |
| Beaver Dam.....    | F. H. McCullough.         | Grove City.....        | Prof. H. W. Harmon.      | Phila. Point Breeze..... | Atlantic Refining Co.    |
| Beaver Falls.....  | W. Edward Eakin.          | Hamburg.....           | State Sanatorium.        | Phoenixville.....        | N. Springfield Water Co. |
| Bethlehem.....     | Lehigh University.        | Hanover.....           | Thomas Y. Cooper.        | Pine Grove.....          | East Penn Electric Co.   |
| Bloersville.....   | A. G. Mountz.             | Harrisburg.....        | U. S. Weather Bureau.    | Pittsburgh.....          | U. S. Weather Bureau.    |
| Bellefonte.....    | U. S. Weather Bureau.     | Hawley.....            | Mrs. Della M. Pennell.   | Pleasant Mount.....      | G. W. Buller.            |
| Bradford.....      | Supt. Timber Pres. Plant. | Herr's Island Dam..... | U. S. Engineer.          | Pottstown.....           | J. Ernest Spare          |
| Brookville.....    | John Fawcett.             | Hollisterville.....    | Penn. P. & L. Co.        | Quakertown.....          | John H. Strauch.         |
| Butler.....        | The Butler Eagle.         | Holtwood.....          | H. W. Lowy, C. E.        | Reading.....             | John E. Benner.          |
| Carlisle.....      | Clarence E. Miller.       | Huntingdon.....        | Prof. H. A. Conner.      | Renovo.....              | U. S. Weather Bureau.    |
| Catawissa.....     | H. H. Yetter.             | Hyndman.....           | Horace A. Shearly.       | Ridgway.....             | J. H. Baird.             |
| Center Hall.....   | S. W. Smith.              | Ingram.....            | W. R. Gormly.            | Saltsburg.....           | West Penn. Power Co.     |
| Chambersburg.....  | Wm. B. Spear.             | Irwin.....             | W. F. Gallagher.         | Scranton.....            | Thomas M. Duncan.        |
| Claysville.....    | J. L. Melvin.             | Johnstown.....         | E. C. Lorentz.           | Selinsgrove.....         | U. S. Weather Bureau.    |
| Clearfield.....    | E. W. Hess, C. E.         | Kegons.....            | I. A. Knupp.             | Sharon.....              | Dr. George E. Fisher.    |
| Cloe.....          | Frank McElwain.           | Kylertown.....         | Bur. Plant Industry.     | Shawmont.....            | H. H. Gerber.            |
| Clymer.....        | Thomas Fleitz.            | Lakeville.....         | Penn. P. & L. Co.        | Snow Hill.....           | Winfield S. Guiles.      |
| Coatesville.....   | W. T. Gordon.             | Lancaster.....         | Supt. Water Works.       | Somerset.....            | G. L. Dormy.             |
| Colebrook.....     | William A. Rorer.         | Lawrenceville.....     | Lehigh Coal & Nav. Co.   | Springdale.....          | D. L. Grove.             |
| Confluence.....    | Grant Pyle.               | Lebanon.....           | C. P. Darling.           | State College.....       | U. S. Engineer.          |
| Conshohocken.....  | Russell C. Erb.           | Lewisburg.....         | S. B. Benzing.           | Stroudsburg.....         | C. A. Kern.              |
| Coraopolis.....    | U. S. Engineer.           | Lloyd.....             | Prof. Wm. G. Owens.      | Sunbury.....             | State Normal School.     |
| Corry.....         | Assd. Gas & Electric Co.  | Lock Haven.....        | M. L. Fish.              | Towanda.....             | Carl E. Stahl.           |
| Coudersport.....   | West Penn Power Co.       | Lock No. 4.....        | Joseph A. Beaver.        | Uniontown.....           | Hiram E. Bull, C. E.     |
| Creekside.....     | John E. Lewis.            | Lyck.....              | U. S. Engineer.          | Unity Reservoir.....     | Wm. W. Marsteller.       |
| Cresson.....       | W. P. Linnan.             | Lykens.....            | Westmoreland Water Co.   | Vandergrift.....         | Westmoreland Water Co.   |
| Derry.....         | Ted R. Wineman.           | Mauch Chunk.....       | Susquehanna Coal Co.     | Warren.....              | H. R. Belding.           |
| Donora.....        | Donora Zinc Works.        | Meadville.....         | R. K. Wintermute.        | Weikert.....             | Mrs. Anna Simpson        |
| Doylestown.....    | Geo. Hart.                | Meadville.....         | Assd. Gas & Electric Co. | Wellsboro.....           | David Libby.             |
| Driftwood.....     | Walter Leach.             | Midlington.....        | William Smith.           | West Chester.....        | George W. Hill.          |
| Ebensburg.....     | D. H. Jones.              | Montrose.....          | Silas Jagger.            | Westford.....            | Joseph W. Belt.          |
| Elk Lick.....      | J. S. Stevanus.           | Mount Run.....         | Morris Run Mining Co.    | Westgrove.....           | C. C. Collins.           |
| Emporium.....      | T. B. Lloyd.              | Mt. Lebanon.....       | Fred Hoffman.            | West Newton.....         | Conard-Pyle Co.          |
| Ephrata.....       | Ira J. Keath.             | Mount Pocono.....      | Cecil J. Hoskinson.      | Wilkes-Barre.....        | A. B. Adams.             |
| Erie.....          | U. S. Weather Bureau.     | Muncy Valley.....      | H. O. Hacker.            | Williamsport.....        | Milton Wentz.            |
| Falls Creek.....   | J. C. Snell.              | Narberth.....          | Charles Decker.          | York.....                | Veronica E. April.       |
| Forest City.....   | L. L. Whipple.            | Neshaminy Falls.....   | N. Springfield Water Co. | York Haven.....          | C. L. Bott.              |
| Franklin.....      | R. A. Fergus.             | New Castle.....        | New Castle Water Co.     | Zellenople.....          | York Haven Water Co.     |
| Freeland.....      | Theodore Reichmann.       | Newell.....            | General Chemical Co.     |                          | Francis Gray.            |
| Freeport.....      | U. S. Engineer.           | New Park.....          | C. J. Allen.             |                          |                          |
| George School..... | N. W. Swayne.             | Palmerton.....         | New Jersey Zinc Co.      |                          |                          |
| Gettysburg.....    | Dr. Henry Stewart.        | Parkers Landing.....   | Henry Turk.              |                          |                          |
| Girardville.....   | Girard Water Co.          | Paupack.....           | Penn. Power & Light Co.  |                          |                          |

## WEATHER BUREAU AND COOPERATIVE STATIONS, 1929



## KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

UNIVERSITY OF ILLINOIS

## CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. JANUARY, 1930. No. 1

## GENERAL SUMMARY.

The first half of the month was mild, the temperatures being almost constantly above the normal with an excess reaching as much as 20° to 25° at times. A sharp drop occurred on the 16th and thereafter the temperatures were almost constantly below the normal. A little more than half of the precipitation occurred as rain during the first half of the month. The snowfall distribution was rather unique. Instead of the heaviest snows being recorded in Somerset, and some of the northwestern counties where they usually occur, the greatest amounts were reported from Lancaster, Lebanon, York, and Adams counties, where they ranged from seventeen inches. A single exception was the station of Corry, in the eastern edge of Erie county, which reported a total snowfall of twenty inches. The heaviest snowfall occurred on the 18th and 19th, and blocked the highways for 24 to 36 hours before they could be cleared. However, the snow did not cause as much delay and not nearly so many accidents as occurred on the 13th when rain froze and formed a thin film of glare ice on all paved roads in the eastern portion of the State. The fields were snow-covered during the coldest periods, and the frost did not penetrate the soil deeply as a rule. In consequence the winter grains were reported to be in generally good condition at the end of the month. Outdoor work of all kinds made fair to good progress during the first half of the month, but most building operations were slowed up during the last half by the snow and the intense cold. During the first three weeks there was more cloudiness than usual, and much fog occurred during the first half of the month. There were no gales or destructive storm conditions during the month.

## TEMPERATURE.

The mean temperature of the State, as shown by reports from 86 stations, was 29.2°, which is 1.4° above the January normal. The highest monthly mean was 35.6°, at Philadelphia-Weather Bureau and the lowest 23.9°, at Gouldsboro. The highest temperature recorded during the month was 72°, at Hanover on the 9th, while the lowest -24°, occurred at Lancaster on the 19th. The greatest daily range of temperature was 48°, at Gouldsboro on the 10th.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations taken at 133 well-distributed stations, was 2.25 inches; a deficiency of 1.08 inches as compared with the normal. Monthly totals ranged from a maximum of 4.74 inches at Emporium to a minimum of 0.70 inch at Hyndman. The greatest amount recorded in any 24 consecutive hours was 1.50 inches at Brookville on the 12th. Snowfall averaged 8.4 inches, compared with a January normal of 11.0 inches. The greatest monthly amount was 20.2 inches at Corry. The greatest 24-hour snowfall was 11.0 inches at York on the 18th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                     |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|----------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total move- ment, in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a m            | 12 noon. | 8 p. m. |                            | Average                     | *Highest | Direction | Date |
| Erie.....         | 65.9                    | 295.3                    | 22                     | 82               | 76       | 75      | 9,824                      | 13.2                        | 37       | sw.       | 24   |
| Harrisburg.....   | 96.3                    | 300.9                    | 32                     | 74               | 66       | 65      | 3,804                      | 5.1                         | 22       | nw.       | 29   |
| Philadelphia..... | 125.2                   | 300.9                    | 42                     | 70               | 65       | 68      | 8,382                      | 11.3                        | 37       | nw.       | 10   |
| Pittsburgh.....   | 91.8                    | 298.2                    | 31                     | 79               | 66       | 68      | 7,427                      | 10.0                        | 29       | nw.       | 4    |
| Reading.....      | 102.1                   | 300.9                    | 34                     | 79               | 69       | 70      | 3,660                      | 4.9                         | 22       | n.        | 10   |
| Scranton.....     | 104.8                   | 298.2                    | 35                     | 82               | 70       | 71      | 4,453                      | 6.0                         | 22       | n.        | 10   |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR JANUARY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 23.2        | 61      | -19    | 4.19          | 6.75     | 2.12  | 5           | 11            | 15     | 13                     |
| 1889..... | 29.4        | 68      | -5     | 3.54          | 7.02     | 1.82  | 9           | 13            | 9      | 10                     |
| 1890..... | 37.5        | 77      | -2     | 3.04          | 6.87     | 1.47  | 7           | 8             | 16     | 14                     |
| 1891..... | 30.5        | 64      | -4     | 3.64          | 8.74     | 1.22  | 6           | 10            | 15     | 12                     |
| 1892..... | 26.2        | 66      | -28    | 4.77          | 8.46     | 2.08  | 8           | 8             | 15     | 12                     |
| 1893..... | 19.0        | 57      | -25    | 2.85          | 4.82     | 1.65  | 7           | 10            | 14     | 12                     |
| 1894..... | 32.8        | 65      | -9     | 2.29          | 4.71     | 0.83  | 9           | 9             | 13     | 10                     |
| 1895..... | 24.2        | 58      | -17    | 4.17          | 6.36     | 1.83  | 7           | 10            | 14     | 13                     |
| 1896..... | 27.6        | 60      | -15    | 1.43          | 2.40     | 0.52  | 8           | 9             | 14     | 6                      |
| 1897..... | 25.6        | 74      | -25    | 2.15          | 3.54     | 0.87  | 8           | 8             | 15     | 10                     |
| 1898..... | 30.7        | 67      | -16    | 4.25          | 7.57     | 1.32  | 6           | 8             | 17     | 13                     |
| 1899..... | 26.6        | 66      | -21    | 3.05          | 4.84     | 0.82  | 12          | 8             | 11     | 10                     |
| 1900..... | 29.8        | 63      | -8     | 2.64          | 4.37     | 1.36  | 8           | 9             | 14     | 10                     |
| 1901..... | 29.1        | 59      | -10    | 2.22          | 4.41     | 0.74  | 8           | 8             | 15     | 11                     |
| 1902..... | 25.6        | 58      | -13    | 2.80          | 5.15     | 1.00  | 8           | 9             | 14     | 9                      |
| 1903..... | 26.9        | 68      | -13    | 3.31          | 5.09     | 1.49  | 6           | 8             | 17     | 11                     |
| 1904..... | 20.0        | 66      | -42    | 3.55          | 5.82     | 2.08  | 10          | 6             | 15     | 12                     |
| 1905..... | 23.8        | 69      | -21    | 3.70          | 7.55     | 1.72  | 8           | 8             | 15     | 12                     |
| 1906..... | 35.0        | 85      | -4     | 2.53          | 5.28     | 0.76  | 10          | 8             | 13     | 11                     |
| 1907..... | 30.0        | 75      | -23    | 4.36          | 9.69     | 2.14  | 6           | 7             | 18     | 15                     |
| 1908..... | 28.4        | 59      | -18    | 2.68          | 5.33     | 1.46  | 12          | 8             | 11     | 9                      |
| 1909..... | 31.2        | 72      | -19    | 2.92          | 4.25     | 1.58  | 9           | 6             | 16     | 13                     |
| 1910..... | 27.2        | 56      | -22    | 5.55          | 8.91     | 3.27  | 7           | 5             | 19     | 14                     |
| 1911..... | 31.6        | 70      | -5     | 3.54          | 6.38     | 1.25  | 8           | 5             | 18     | 13                     |
| 1912..... | 18.6        | 57      | -35    | 1.92          | 3.72     | 0.47  | 8           | 7             | 16     | 12                     |
| 1913..... | 36.5        | 65      | 3      | 4.95          | 8.90     | 1.51  | 9           | 6             | 16     | 16                     |
| 1914..... | 30.2        | 81      | -27    | 3.37          | 5.77     | 1.40  | 7           | 7             | 17     | 11                     |
| 1915..... | 28.3        | 62      | -26    | 5.56          | 9.69     | 2.43  | 10          | 6             | 15     | 13                     |
| 1916..... | 34.2        | 76      | -12    | 2.42          | 5.33     | 0.20  | 9           | 8             | 14     | 12                     |
| 1917..... | 27.9        | 69      | -18    | 3.60          | 6.69     | 1.06  | 11          | 8             | 12     | 13                     |
| 1918..... | 16.2        | 57      | -29    | 3.51          | 7.28     | 1.20  | 10          | 8             | 13     | 12                     |
| 1919..... | 32.0        | 64      | -15    | 2.53          | 2.10     | 0.34  | 14          | 8             | 9      | 8                      |
| 1920..... | 20.9        | 59      | -23    | 2.47          | 5.35     | 1.00  | 9           | 8             | 14     | 10                     |
| 1921..... | 31.0        | 63      | -13    | 2.58          | 5.23     | 0.89  | 12          | 7             | 12     | 10                     |
| 1922..... | 25.0        | 62      | -19    | 2.26          | 4.46     | 1.15  | 14          | 7             | 10     | 8                      |
| 1923..... | 29.1        | 62      | -17    | 4.26          | 7.74     | 1.91  | 6           | 6             | 19     | 14                     |
| 1924..... | 28.1        | 65      | -13    | 4.34          | 6.29     | 1.70  | 11          | 8             | 12     | 8                      |
| 1925..... | 25.2        | 55      | -29    | 3.49          | 6.68     | 1.07  | 11          | 7             | 13     | 10                     |
| 1926..... | 27.8        | 66      | -19    | 2.80          | 4.85     | 1.12  | 9           | 9             | 13     | 11                     |
| 1927..... | 27.4        | 61      | -24    | 2.90          | 8.28     | 0.76  | 9           | 6             | 16     | 13                     |
| 1928..... | 29.8        | 65      | -23    | 2.08          | 4.48     | 0.78  | 12          | 8             | 11     | 9                      |
| 1929..... | 27.3        | 73      | -20    | 3.37          | 6.86     | 1.12  | 9           | 9             | 13     | 12                     |
| 1930..... | 29.2        | 72      | -24    | 2.25          | 4.74     | 0.70  | 8           | 8             | 15     | 12                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage      | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|-------------------|------|-------------|
|                   |                   |            |               |      |                   |      |             |
| Port Jervis.....  | Delaware.....     | 8.9        | 5.9           | 15   | 2.9               | 31   | 18          |
| Phillipsburg..... | Delaware.....     | 5.3        | 7.0           | 15   | 3.6               | 3    | 22          |
| Mauch Chunk.....  | Lehigh.....       | -2.1       | -1.4          | 14   | -2.6              | 27   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 8.1        | 14.3          | 15   | 4.5               | 28   | 20          |
| Williamsport..... | Susquehanna.....  | 4.6        | 9.7           | 15   | 2.1               | 25   | 20          |
| Harrisburg.....   | Susquehanna.....  | 6.1        | 8.7           | 16   | 4.8               | 23   | 17          |
| Greensboro.....   | Monongahela.....  | 12.3       | 14.4          | 3    | 10.8 <sup>b</sup> | 27   | 30          |
| West Newton.....  | Youghiogheny..... | 2.5        | 3.7           | 4    | 1.3               | 21   | 20          |
| Lock No. 4.....   | Monongahela.....  | 14.8       | 17.3          | 4    | 13.3              | 20   | 31          |
| Pittsburgh.....   | Ohio.....         | 14.3       | 20.0          | 14   | 10.9              | 27   | 25          |
| Beaver Dam.....   | Ohio.....         | 12.9       | 23.5          | 14   | 5.9               | 28   | 30          |



## Climatological Data for January, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        | Precipitation, in inches |                      |       |                           | No. of days          |                           |                              |       | Prevailing direction of wind | Observers |                             |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|--------------------------|----------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|-----------------------------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date                     | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy                  | Cloudy                       |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |                              |           |                             |                              |
| Allentown          | Lehigh       | 254             | 19                      | 27.8                         | .....                     | 65      | 9    | -1     | 20                       | 32                   | 2.24  | -1.41                     | 0.84                 | 9.8                       | 10                           | 15    | 13                           | 3         | ne.                         | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 43                      | 27.6                         | +0.3                      | 64      | 2    | -5     | 19                       | 36                   | 1.26  | -1.24                     | 0.81                 | 4.2                       | 9                            | 21    | 6                            | 4         | w.                          | F. E. Rooney.                |
| Arendtsville       | Adams        | 700             | 6                       | 27.9                         | .....                     | 67      | 9    | -3     | 18                       | 41                   | 2.50  | .....                     | 0.80                 | 17.3                      | 10                           | 10    | 11                           | nw.       | Dr. S. W. Frost.            |                              |
| Bellefonte         | Center       | 1,050           | 25                      | 25.8                         | .....                     | 61      | 7    | -7     | 20                       | 37                   | 1.08  | -1.71                     | 0.21                 | 5.0                       | 15                           | 5     | 6                            | 20        | w.                          | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 44                      | 31.7                         | +1.8                      | 68      | 9    | 2      | 19                       | 36                   | 2.01  | -1.57                     | 0.64                 | 11.0                      | 11                           | 8     | 4                            | 19        | nw.                         | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 64                      | 28.0                         | +0.1                      | 59      | 9    | -16    | 20                       | 41                   | 2.11  | -1.01                     | 1.03                 | 14.0                      | 10                           | 11    | 1                            | 19        | se.                         | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 34                      | 27.8                         | -0.3                      | 61      | 8    | -8     | 20                       | 35                   | 1.48  | -1.84                     | 0.67                 | 8.0                       | 11                           | 15    | 5                            | 11        | .....                       | H. H. Yetter.                |
| Center Hall        | Center       | 1,272           | 34                      | 27.8                         | +2.4                      | 62      | 7    | -4     | 19                       | 37                   | 1.12  | -1.43                     | 0.48                 | 7.2                       | 10                           | 19    | 4                            | 8         | .....                       | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 31                      | 29.0                         | +0.3                      | 68      | 9    | -12    | 20                       | 39                   | 1.55  | -1.04                     | 0.67                 | 11.4                      | 10                           | 8     | 10                           | 13        | ne.                         | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 21                      | 28.3                         | +1.4                      | 60      | 7    | -8     | 26                       | 41                   | 2.91  | -0.93                     | 0.90                 | 5.0                       | 10                           | 12    | 8                            | 11        | w.                          | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 43                      | 29.4                         | -1.0                      | 68      | 9    | -3     | 19                       | 37                   | 2.92  | -1.05                     | 0.96                 | 13.8                      | 9                            | 9     | 11                           | 11        | nw.                         | Prof. W. T. Gordon.          |
| Colebrook          | Lebanon      | 560             | 21                      | 27.3                         | +0.8                      | 62      | 8    | -10    | 19                       | 36                   | 2.06  | -1.49                     | 0.80                 | 14.9                      | 10                           | 9     | 5                            | 17        | w.                          | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 43                      | 26.8                         | +1.0                      | 60      | 7    | -12    | 26                       | 38                   | 4.74  | +1.21                     | 1.16                 | 7.0                       | 15                           | 3     | 14                           | 14        | w.                          | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 30                      | 30.0                         | +0.7                      | 66      | 9    | -12    | 19                       | 36                   | 2.40  | -0.59                     | 0.82                 | 15.3                      | 9                            | 8     | 6                            | 17        | sw.                         | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 15                      | 27.0                         | .....                     | 61      | 9    | -6     | 19                       | 43                   | 2.06  | .....                     | 0.65                 | 13.0                      | 14                           | 6     | 6                            | 19        | nw.                         | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 24                      | 32.0                         | +1.2                      | 67      | 9    | 6      | 24                       | 32                   | 2.64  | -0.43                     | 0.90                 | 5.3                       | 9                            | 14    | 3                            | 14        | nw.                         | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 57                      | 30.6                         | +1.6                      | 68      | 9    | -6     | 20                       | 33                   | 2.34  | -0.80                     | 0.84                 | 15.3                      | 11                           | 11    | 6                            | 14        | s.                          | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 27                      | 27.8                         | +1.4                      | 66      | 9    | -10    | 24                       | 38                   | 2.10  | -1.83                     | 0.54                 | 13.0                      | 12                           | 10    | 4                            | 17        | w.                          | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 23.9                         | .....                     | 60      | 9    | -19    | 20                       | 48                   | 1.60  | -1.64                     | 0.54                 | 10.1                      | 12                           | 10    | 9                            | 12        | w.                          | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 37                      | 28.5                         | -0.2                      | 63      | 9    | -8     | 24                       | 38                   | 1.73  | -2.03                     | 0.65                 | 10.0                      | 7                            | 7     | 15                           | 9         | w.                          | State Sanatorium.            |
| Hanover            | York         | 600             | 27                      | 33.1                         | +0.2                      | 72      | 9    | 0      | 20                       | 32                   | 2.27  | -1.05                     | 0.75                 | 13.5                      | 14                           | 11    | 5                            | 15        | s.                          | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 61                      | 30.2                         | +1.2                      | 60      | 8    | 5      | 20                       | 35                   | 1.69  | -1.40                     | 0.76                 | 12.8                      | 10                           | 6     | 6                            | 19        | nw.                         | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 12                      | 26.2                         | .....                     | 56      | 8    | -11    | 20                       | 37                   | 1.58  | .....                     | 0.58                 | 8.4                       | 11                           | 10    | 7                            | 14        | w.                          | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 15                      | 31.8                         | .....                     | 65      | 10   | 2      | 19                       | 32                   | 2.16  | -1.42                     | 0.74                 | 14.0                      | 12                           | 8     | 11                           | 12        | .....                       | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 43                      | 29.0                         | +0.4                      | 63      | 7    | -10    | 20                       | 37                   | 1.39  | -1.93                     | 0.41                 | 6.5                       | 13                           | 10    | 7                            | 14        | w.                          | Prof. H. A. Conner.          |
| Hyndman            | Bedford      | 977             | 18                      | 32.4                         | +2.7                      | 68      | 9    | -1     | 20                       | 36                   | 0.70  | -2.90                     | 0.18                 | 4.3                       | 9                            | 5     | 2                            | 24        | .....                       | Horace A. Shearly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | .....                        | .....                     | 59      | 7    | .....  | .....                    | .....                | 1.60  | .....                     | 0.55                 | 3.3                       | 10                           | 11    | 8                            | 12        | w.                          | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 43                      | 28.0                         | -1.6                      | 69      | 9    | -24    | 19                       | 47                   | 2.85  | -0.40                     | 1.00                 | 16.5                      | 8                            | 15    | 11                           | 5         | w.                          | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 25.0                         | +0.4                      | 64      | 9    | -12    | 23                       | 36                   | 1.75  | -0.29                     | 0.50                 | 5.0                       | 7                            | 4     | 10                           | 17        | .....                       | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 90                      | 30.5                         | +1.5                      | 62      | 8    | -3     | 20                       | 33                   | 1.45  | -2.14                     | 0.42                 | 13.0                      | 9                            | 12    | 12                           | 7         | sw.                         | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 56                      | 28.1                         | +2.7                      | 58      | 7    | -8     | 20                       | 32                   | 1.54  | -1.43                     | 0.50                 | 7.0                       | 11                           | 7     | 5                            | 19        | w.                          | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 42                      | 30.7                         | +3.3                      | 64      | 7    | -2     | 26                       | 33                   | 2.01  | -1.26                     | 0.84                 | 11.0                      | 11                           | 2     | 11                           | 18        | ne.                         | Joseph Beaver.               |
| Lykens             | Dauphin      | 680             | 16                      | 29.0                         | +1.8                      | 62      | 9    | -7     | 24                       | 37                   | 1.52  | +1.99                     | 0.60                 | 8.5                       | 11                           | 13    | 9                            | 9         | nw.                         | Susquehanna Collieries Co.   |
| Mauch Chunk        | Carbon       | 600             | 41                      | 27.2                         | -0.2                      | 65      | 9    | -5     | 20                       | 35                   | 1.74  | -2.04                     | 0.60                 | 10.5                      | 10                           | 9     | 9                            | 13        | s.                          | R. K. Wintermute.            |
| Midlinton          | Juniata      | 445             | 27                      | 27.9                         | +0.3                      | 59      | 7    | -6     | 20                       | 31                   | 1.14  | -2.04                     | 0.37                 | 7.3                       | 11                           | 6     | 2                            | 23        | w.                          | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 28                      | 25.2                         | +2.7                      | 55      | 7    | -15    | 19                       | 34                   | 2.70  | -0.01                     | 0.75                 | 6.0                       | 9                            | 4     | 10                           | 17        | s.                          | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 26.6                         | +3.7                      | 61      | 9    | -5     | 19                       | 31                   | 1.87  | -1.28                     | 1.10                 | 8.5                       | 9                            | 7     | 6                            | 18        | nw.                         | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 25.3                         | +0.8                      | 57      | 7    | -15    | 19                       | 35                   | 2.04  | -1.28                     | 0.51                 | 7.2                       | 7                            | 10    | 8                            | 13        | nw.                         | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 11                      | 31.0                         | .....                     | 69      | 9    | 5      | 19                       | 33                   | 3.26  | .....                     | 1.21                 | 7.1                       | 13                           | 9     | 6                            | 16        | nw.                         | Charles Decker.              |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 29.7                         | +2.1                      | 68      | 9    | 1      | 24                       | 35                   | 2.12  | .....                     | 2.5                  | 9                         | 9                            | 4     | 18                           | s.        | North Springfield Water Co. |                              |
| Palmerton          | Carbon       | 398             | 14                      | 26.7                         | .....                     | 63      | 9    | -6     | 19                       | 29                   | 1.25  | .....                     | 0.41                 | 10.2                      | 7                            | 0     | 9                            | 22        | sw.                         | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 59                      | 35.6                         | +3.0                      | 69      | 9    | 11     | 19                       | 34                   | 3.15  | -0.15                     | 1.08                 | 3.9                       | 9                            | 8     | 2                            | 21        | nw.                         | U. S. Weather Bureau.        |
| Philadelphia-Gtn   | Philadelphia | 113             | 6                       | 34.8                         | .....                     | 67      | 9    | 9      | 19                       | 39                   | 2.98  | .....                     | 1.05                 | 7.1                       | 11                           | 7     | 9                            | 15        | .....                       | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 33.6                         | +2.3                      | 65      | 9    | 10     | 19                       | 37                   | 2.83  | -0.40                     | 1.02                 | 4.1                       | 12                           | 8     | 6                            | 17        | nw.                         | Commandant. Navy Yard.       |
| Phila-Point Breeze | Philadelphia | 90              | 5                       | 34.7                         | .....                     | 69      | 9    | 10     | 19                       | 36                   | 3.16  | .....                     | 1.04                 | 2.2                       | 9                            | 8     | 2                            | 21        | sw.                         | Atlantic Refining Co.        |
| Phoenixville       | Chester      | 100             | 20                      | 32.4                         | +2.6                      | 69      | 9    | -3     | 24                       | 35                   | 3.05  | -0.90                     | 0.92                 | 10.6                      | 9                            | 15    | 7                            | 9         | s.                          | North Springfield Water Co.  |
| Quakertown         | Bucks        | 496             | 46                      | 28.6                         | +1.6                      | 65      | 9    | -6     | 20                       | 33                   | 2.63  | -0.86                     | 0.99                 | 8.0                       | 10                           | 8     | 15                           | nw.       | John E. Benner.             |                              |
| Reading            | Berks        | 325             | 61                      | 31.2                         | +1.8                      | 67      | 9    | 2      | 20                       | 27                   | 2.29  | -1.28                     | 0.91                 | 12.2                      | 8                            | 8     | 2                            | 21        | w.                          | U. S. Weather Bureau.        |
| Seranton           | Lackawanna   | 805             | 36                      | 28.8                         | +2.2                      | 59      | 7    | -1     | 19                       | 37                   | 1.20  | -1.83                     | 0.32                 | 6.1                       | 13                           | 4     | 11                           | 16        | sw.                         | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 42                      | 28.0                         | -0.9                      | 57      | 7    | -6     | 20                       | 31                   | 1.46  | -1.66                     | 0.40                 | 10.0                      | 10                           | 12    | 8                            | 11        | sw.                         | Dr. George E. Fisher.        |
| Shawmont           | Philadelphia | 51              | 35                      | 32.7                         | .....                     | 66      | 9    | 7      | 24                       | 30                   | 2.72  | -0.53                     | 1.15                 | 4.5                       | 9                            | 6     | 7                            | 18        | nw.                         | W. S. Guiles.                |
| State College      | Center       | 1,217           | 46                      | 28.0                         | +1.7                      | 62      | 7    | -3     | 20                       | 34                   | 1.81  | -1.17                     | 0.37                 | 6.2                       | 11                           | 6     | 14                           | 11        | w.                          | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 16                      | 25.2                         | -1.1                      | 60      | 9    | -11    | 20                       | 34                   | 2.29  | -0.93                     | 0.66                 | 9.5                       | 9                            | 7     | 5                            | 19        | nw.                         | State Normal School.         |
| Towanda            | Bradford     | 754             | 36                      | 26.6                         | +1.4                      | 59      | 7    | -12    | 24                       | 36                   | 1.79  | -0.31                     | 0.58                 | 6.4                       | 10                           | 5     | 9                            | 17        | e.                          | Hiram E. Bull, C. E.         |
| Wellsboro          | Tioga        | 1,419           | 66                      | 24.4                         | +0.1                      | 57      | 7    | -12    | 23                       | 31                   | 1.81  | -0.76                     | 0.50                 | 7.0                       | 10                           | 17    | 7                            | 7         | w.                          | George W. Hill.              |
| West Chester       | Chester      | 455             | 93                      | 32.0                         | +1.8                      | 69      | 9    | 4      | 19                       | 32                   | 3.17  | -0.67                     | 0.92                 | 11.0                      | 7                            | 11    | 10                           | 10        | sw.                         | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 44                      | 28.1                         | +0.8                      | 56      | 7    | -3     | 20                       | 29                   | 1.74  | -1.26                     | 0.37                 | 7.0                       | 13                           | 8     | 7                            | 16        | se.                         | Miss Veronica E. April.      |
| York               | York         | 400             | 43                      | 29.8                         | +0.5                      | 70      | 9    | -15    | 19                       | 42                   | 2.19  | -0.80                     | 0.81                 | 17.0                      | 10                           | 11    | 9                            | 11        | w.                          | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |                              |           |                             |                              |
| Beaver Dam         | Beaver       | 700             | 38                      | 30.8                         | +0.8                      | 53      | 1    | -2     | 26                       | 32                   | 3.03  | +0.16                     | 0.81                 | .....                     | 18                           | 5     | 6                            | 20        | sw.                         | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 15                      | 27.8                         | +5.0                      | 60      | 7    | -12    | 26                       | 32                   | 4.35  | +1.08                     | 0.94                 | 4.5                       | 13                           | 2     | 14                           | 15        | sw.                         | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 40                      | 24.8                         | 0.0                       | 58      | 6    | -23    | 26                       | 46                   | 4.69  | +1.32                     | 1.50                 | 7.3                       | 15                           | 10    | 9                            | 12        | .....                       | John Fawcett.                |
| Butler             | Butler       | 1,152           | 9                       | .....                        | .....                     | 65      | 7    | .....  | .....                    | .....                | 1.92  | .....                     | 0.43                 | 8.5                       | 16                           | 6     | 2                            | 23        | w.                          | William C. Faust.            |
| Chambersville      | Indiana      | 1,017           | .....                   |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |                              |           |                             |                              |



Daily Precipitation for January, 1930

| Stations           | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |      |     |      |     |     |     |      |     |    |     |     |     |     |     |     |     |     |     |     |     | Total |      |
|--------------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12   | 13  | 14   | 15  | 16  | 17  | 18   | 19  | 20 | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |
| Atlantic Drainage. |                |              |     |     |     |     |     |     |     |     |     |     |      |     |      |     |     |     |      |     |    |     |     |     |     |     |     |     |     |     |     |     |       |      |
| Allentown\|\|\| | Lehigh         |              |     | .04 |     |     |     |     |     |     |     | T.  | .15  | .12 | .01  | .86 |     | *   | .43  | .35 |    | T.  | T.  | .05 |     |     |     |     | T.  | .23 |     |     | 2.24  |      |
| Altoona            | Juniata        | T.           |     |     | T   | .03 |     |     | .04 |     |     |     | .25  | .28 | .05  |     |     |     | .20  |     |    |     | .02 | .31 |     |     |     |     | T.  | .08 |     |     | 1.26  |      |
| Ansonia\|\|\| | W. Br. Susq.   |              | .20 |     |     |     |     |     | .07 | .16 | .18 | T.  | .30  | .58 | .16  | .03 | T.  | T.  | .18  | .01 |    | T.  | .13 | .02 |     |     |     |     | T.  |     |     |     | 2.02  |      |
| Arendtsville\|\|\| | Lower Susq.    |              | .01 |     |     |     |     |     | .02 | .04 |     |     |      | .04 | .32  | .34 |     |     | .73  |     |    |     | .80 |     |     |     |     |     |     | .15 |     | .05 | 2.50  |      |
| Baker's Summit     | Juniata        |              | .16 |     |     |     |     |     | .41 |     |     |     | .28  | .05 | .04  |     |     |     | .17  |     |    |     |     |     |     |     |     |     | .25 |     |     |     | 1.36  |      |
| Bellefonte***      | W. Br. Susq.   | .04          | .10 | .03 | .01 |     |     |     | .06 | .02 | T.  | .01 | .21  | .16 | .02  | .01 | T.  | T.  | .19  |     |    |     | .05 | .16 | T.  |     | T.  | T.  | .01 | T.  |     | T.  | 1.08  |      |
| Bethlehem          | Lehigh         | T.           |     | .05 |     |     |     |     | .01 |     | .01 |     | .25  | .02 | .64  | .02 | T.  |     | .61  |     |    |     | T.  | .10 |     |     |     |     | .08 | .22 |     | T.  | 2.01  |      |
| Blossville\|\| | Lower Susq.    | .03          |     |     |     |     | .10 | T.  | T.  |     |     |     | .10  |     | .15  | .05 |     |     | .35  |     |    |     |     | .06 |     |     |     |     |     | .06 |     |     | 0.90  |      |
| Carlisle           | Lower Susq.    | .05          | T.  | .05 |     |     |     |     | T.  | .06 |     |     | .17  |     | .33  | .05 | T.  |     | 1.03 |     |    |     | T.  | .22 |     |     |     |     | .08 | .07 |     |     | 2.11  |      |
| Catawissa          | N. Br. Susq.   | .01          | .02 |     |     |     |     |     | .15 |     | .04 | .03 | .25  | .09 | .10  |     |     |     | .67  |     |    |     | T.  | .10 |     |     |     |     | .02 |     |     |     | 1.48  |      |
| Center Hall        | Susquehanna    |              |     |     |     |     |     |     | .04 | .03 |     |     | .22  | .01 | .04  |     | .05 |     | .48  |     |    |     |     | .05 | .18 |     |     |     | .02 |     |     |     | 1.12  |      |
| Chambersburg       | Potomac        | .01          |     | .07 |     |     |     |     | .08 | .03 |     |     | .18  |     | .22  | .02 |     |     | .67  |     |    |     | T.  | .16 |     |     |     |     | .11 | T.  |     | T.  | 1.55  |      |
| Clearfield         | W. Br. Susq.   |              | .05 | .22 |     |     |     |     | .30 | .40 | .02 |     | .90  | .40 | .12  | T.  | T.  |     | .40  |     |    |     | T.  |     |     |     | .10 |     | T.  |     |     | T.  | 2.91  |      |
| Coatesville        | Lower Del.     |              |     | .13 |     |     |     |     |     |     |     | T.  | .25  |     | .56  | .06 |     |     | .96  |     |    |     | T.  | .15 |     |     |     |     | .50 | .18 |     | .13 | 2.92  |      |
| Colebrook          | Lower Susq.    |              | .03 |     |     |     |     | .05 | T.  | .05 | T.  |     | .26  | T.  | .40  | .02 | T.  |     | .80  |     |    | T.  | T.  | .13 |     |     |     |     | *   | .32 |     | T.  | 2.06  |      |
| Conshohocken       | Schuylkill     | T.           |     | .12 |     |     |     |     | .21 | T.  |     |     | .21  | T.  | 1.10 | .01 | T.  |     | 1.08 |     |    |     | T.  | .15 |     |     |     |     | .13 | T.  |     | .14 | T.    | 2.94 |
| Cresson            | Juniata        | .02          |     | .09 |     |     |     |     | .05 | .20 |     |     | .20  | .20 |      |     |     |     | .33  |     |    |     |     |     |     |     |     | .02 |     |     |     |     | 1.11  |      |
| Doylestown         | Lower Del.     |              | .15 |     |     |     |     |     |     |     | T.  |     |      |     | .77  | .02 |     |     | .98  |     |    |     | T.  | .08 |     |     |     |     | .30 | .04 |     | .01 | 2.35  |      |
| Driftwood\|\|\| | W. Br. Susq.   |              | .34 |     |     |     |     |     | .16 |     | .62 |     |      |     | 1.10 | .10 | .14 | T.  |      |     |    | T.  | .05 |     |     |     |     |     |     |     |     | T.  | 2.51  |      |
| Emporium           | do.            | .70          | .18 | .10 | T.  |     |     | .06 | .36 | .65 | .15 |     | 1.16 | .47 | .31  |     | T.  |     | .35  |     |    |     | .05 | .10 |     |     | T.  |     | .05 |     |     | .05 | 4.74  |      |
| Ephrata            | Lower Susq.    |              | .03 |     |     |     |     |     | T.  | T.  | .02 |     | .31  | T.  | .72  | .02 |     |     | .82  |     |    |     |     | .11 |     |     |     |     | .22 | .15 |     | T.  | 2.40  |      |
| Forest City        | N. Br. Susq.   |              | .25 |     |     |     |     |     | .25 | T.  | .05 |     | .25  | .48 | .28  |     |     |     | .40  |     |    |     |     | .03 |     |     |     |     | .15 |     |     |     | 2.14  |      |
| Freeland\|\|\| | Lehigh         |              | .08 | .09 | T.  |     |     |     | .15 | T.  | .11 |     | .29  | .19 | .06  | .08 |     | .02 | .47  | .18 |    |     |     | .04 | .14 |     |     | T.  | T.  | .16 |     | T.  | 2.06  |      |
| George School      | Lower Del.     |              | .10 |     |     |     |     |     |     |     |     |     | .22  | T.  | .82  | .01 |     |     | .90  |     |    |     | T.  | .13 |     |     |     |     | .19 | .23 |     | .04 | 2.64  |      |
| Gettysburg         | Potomac        | T.           | .01 |     |     |     |     |     | T.  |     | .01 | T.  | .26  | .01 | .52  | .07 |     |     | .84  |     |    |     | T.  | .22 |     |     |     |     | .20 | .09 |     | .11 | 2.34  |      |
| Girardville        | Lower Susq.    | .04          | .01 | T.  |     |     |     |     | .17 |     | .10 | .38 |      | .02 | .08  | .02 | .02 |     | .61  |     |    |     | T.  | .13 |     | .01 |     |     | .11 |     |     |     | 1.70  |      |
| Gordon             | Lower Susq.    | .03          |     | .10 |     |     |     |     | .15 | .05 | .10 |     | .30  |     | .20  | .03 | T.  |     | .54  |     |    |     |     | .40 |     |     |     |     | .10 | .10 |     |     | 2.10  |      |
| Gouldsboro\|\| | Lehigh         |              |     | .10 |     |     |     |     | .18 |     | .02 |     |      | .20 | .21  | .08 |     | .09 | .36  | .18 |    |     |     | .09 |     | .05 |     | .09 | .09 | .05 |     |     | 1.60  |      |
| Graterford         | Schuylkill     |              |     | .18 |     |     |     |     |     |     |     |     | .24  |     | .58  | .19 |     |     | .21  |     |    |     |     | .10 |     |     |     |     | .20 |     |     |     | \$    | 1.73 |
| Hamburg            | Schuylkill     |              |     |     |     |     |     |     | .08 |     |     |     | .08  | .06 | .56  |     |     |     | .65  |     |    |     |     |     |     |     |     |     | .12 | .18 |     | .10 | 2.27  |      |
| Hanover            | Lower Susq.    | T.           |     | .04 |     |     |     |     | .01 | .01 | .03 | T.  | .20  | .01 | .51  | .06 |     |     | .75  |     |    |     | .02 | .23 |     |     |     |     | .12 |     |     |     | 1.69  |      |
| Harrisburg**       | do.            | T.           | .02 | .03 | T.  |     |     |     | .03 |     | .01 | T.  | .30  | T.  | .20  | .01 | T.  |     | .76  |     |    | T.  | T.  | .12 |     |     |     | T.  | T.  | .21 |     |     | T.    | 1.58 |
| Hawley\|\|\| | Upper Del.     |              | .08 | .08 |     |     |     |     | .03 |     | .02 |     | .15  | .35 | .13  | .06 |     |     | .19  | .39 |    |     |     |     | .03 |     |     |     |     | .10 |     |     | T.    | 1.58 |
| Hollisterville     | Upper Del.     |              | .03 | .07 |     |     |     |     | .03 |     | .07 | .04 | .31  | .15 | .04  |     |     |     | .30  | .36 |    |     |     | .02 |     |     |     | .05 |     | .02 |     |     |       | 1.49 |
| Holtwood\|\| | Lower Susq.    |              |     | .05 |     |     |     |     | T.  | T.  |     | .02 | .14  | T.  | .03  | .38 | .02 |     | .74  | .17 |    |     |     | .05 | T.  |     |     | T.  | .40 | .04 | T.  | .12 | 2.16  |      |
| Huntingdon         | Juniata        | .04          |     | .02 | T.  |     |     |     | .28 | .01 |     |     | .41  | .08 | .01  | T.  |     |     | .37  |     |    |     | .02 | .08 |     |     |     | .02 | .04 | .01 |     |     | 1.39  |      |
| Hyndman            | Potomac        | .04          | T.  | .11 | T.  |     |     |     | .01 | T.  |     |     | .17  |     | T.   | .02 | T.  |     | .18  |     |    |     |     |     |     |     |     |     | .11 | .02 |     |     | 0.70  |      |
| Kylertown          | W. B. Susq.    | .10          |     | .15 |     |     |     |     | .20 | .10 |     |     | .55  | .15 |      |     |     |     | .26  |     |    |     |     | .02 | .02 |     |     |     | .05 |     |     |     | 1.60  |      |
| Lakeville\|\|\| | Upper Del.     |              | .05 | .04 | T.  |     |     |     | T.  | T.  |     |     | .06  | .35 | .17  | .05 |     |     | .24  | .42 |    |     |     |     |     |     |     | .04 |     | .06 |     |     | 1.48  |      |
| Lancaster          | Lower Susq.    |              |     |     |     |     |     |     |     |     |     |     | .30  |     | .86  | .04 |     |     | 1.00 |     |    |     |     | .15 |     |     |     | .20 | .20 |     | .10 |     | 2.85  |      |
| Lawrenceville      | Lehigh         |              | .02 | .05 |     |     |     |     | .04 |     | .05 |     | .36  |     | .07  | .18 |     |     | .28  | T.  | T. | T.  | T.  | .14 |     |     | T.  |     |     | .15 |     |     | 1.34  |      |
|                    | N. Br. Susq.   | T.           | T.  | .28 |     |     |     |     | T.  | T.  |     | T.  | .50  | .30 | .12  |     |     |     | .30  |     |    |     | .05 | .20 |     |     | T.  |     |     |     |     |     | 1.75  |      |
| Lebanon            | Lower Susq.    |              |     |     |     |     |     |     | T.  | .03 | T.  |     | .28  | .03 | .35  | .05 | T.  |     | .42  |     |    |     |     | .05 |     |     |     |     | .10 | .14 |     | T.  | 1.45  |      |
| Lewisburg          | W. Br. Susq.   | .03          |     |     |     |     |     | .02 | .13 | .05 |     |     | .35  | .18 | .07  | .07 | T.  |     | .50  |     |    |     | T.  | .12 |     |     |     |     | .02 |     |     |     | 1.54  |      |
| Lloyd              | do.            |              |     |     |     |     |     |     | .12 | .10 | .01 |     | .84  | .21 | .02  | .02 |     |     | .34  |     |    |     |     | .17 |     |     |     | T.  |     | T.  |     |     | 2.01  |      |
| Lock Haven         | do.            | .03          |     | .15 |     |     |     |     | .12 | .10 | .01 |     | .34  | .21 | .02  | .02 |     |     | .60  |     |    |     | T.  | .10 |     |     |     | T.  | .05 | .05 |     |     | T.    | 1.52 |
| Lykens             | Susquehanna    |              |     |     |     |     |     |     | .15 | .05 | .03 |     | .30  | .02 | .13  | .04 | T.  |     | .60  |     |    |     |     | .06 |     |     |     | T.  |     | .17 | .03 |     |       | 1.74 |
| Mauch Chunk        | Lehigh         | .03          |     |     |     |     |     |     | .12 |     | .03 |     | .36  | .04 | .30  |     |     |     | .60  |     |    |     |     | .10 |     |     |     |     | .17 | .03 |     |     | 1.74  |      |
| Midflintown        | Juniata        | .01          |     | .02 |     |     |     |     | .16 | .03 |     |     | .32  | .05 |      | .04 |     |     | .30  |     |    |     | T.  | .14 |     |     |     |     | .05 | .02 |     |     | 1.14  |      |
| Montrose           | N. Br. Susq.   |              | .20 | .25 |     |     |     |     | .10 | .15 | .05 | .50 |      | .75 | .20  |     |     |     | .50  |     |    |     | T.  |     |     |     |     | T.  |     |     |     |     | 2.70  |      |
| Morris Run         | N. Br. Susq.   |              | .17 |     |     |     |     |     | .15 | .17 | .04 | T.  | .08  | .60 | .08  |     | .04 |     | .28  |     |    | .05 | .21 |     |     |     |     |     |     |     |     |     | 1.87  |      |
| Mount Pocono       | Upper Del.     | .03          | .01 | T.  |     |     |     |     | .06 | T.  |     |     | .19  | .06 | .10  | T.  | T.  |     | 1.10 |     |    |     |     |     | .22 |     |     |     |     | .10 |     |     | 1.87  |      |
| Muncy Valley       | W. Br. Susq.   |              |     |     |     |     |     |     | .51 | .26 | T.  |     | .36  | .36 | .09  |     |     |     | .43  |     |    |     | T.  | .03 |     |     |     |     | T.  | T.  |     |     |       |      |



## Daily Precipitation for January, 1930—Continued from page 3

| Stations         | Drainage Basin | Day of month |     |     |     |   |   |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |      | Total |      |
|------------------|----------------|--------------|-----|-----|-----|---|---|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|-------|------|
|                  |                | 1            | 2   | 3   | 4   | 5 | 6 | 7   | 8   | 9   | 10  | 11  | 12   | 13   | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29 | 30  | 31   |       |      |
| Ohio Drainage.   |                |              |     |     |     |   |   |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |      |       |      |
| Beaver Dam\|\|\| | Ohio           | .05          | .08 | .44 | .02 |   |   |     | .12 | .25 | .07 |     | .60  | .81  | .10 | .02 | .01 |     | .12 |     |     | T.  | .25 | T.  |     |     | .01 | .04 | .01 |    |     | .03  | 3.03  |      |
| Beaver Falls\|\|\| | Beaver         | .05          | .06 | .36 | .02 |   |   |     | .19 | .36 | .09 | T.  | .54  | .86  | .11 | .05 | T.  | T.  | .12 | T.  |     | .01 | .08 | T.  |     | .01 | .01 | .01 |     |    | .01 | 2.95 |       |      |
| Bradford         | Allegheny      | .06          | .32 | .08 | T.  |   |   | .30 | .94 | .85 | .28 |     | .72  | .36  | .04 |     | T.  | T.  | .15 |     |     | .05 | T.  |     | .20 |     |     | .05 | T.  |    |     | .08  | 4.35  |      |
| Brookville       | do             | .22          | .39 | T.  | T.  |   |   | .47 | .35 | .14 | T.  | .84 | 1.50 | .12  | .08 | T.  | T.  | .19 |     |     |     | .04 | .09 |     | T.  | .13 |     | .05 | T.  |    |     | .08  | 4.69  |      |
| Butler           | Ohio           |              |     |     |     |   |   |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |      |       |      |
| Chambersville    | Allegheny      | .08          | *   | .30 |     |   |   | *   | *   | .19 | .04 |     | .43  | .32  | .03 |     |     |     | .10 |     |     | .12 | .12 |     |     | .04 |     | .05 |     |    | .10 | 1.92 |       |      |
| Claysville       | Ohio           | .08          | .31 | .22 |     |   |   | T.  | .19 | .22 | .05 |     | .07  | .28  | T.  |     | .01 |     |     | .13 |     |     | .10 |     |     | T.  | .07 |     |     |    | .02 | 1.75 |       |      |
| Cloeff           | Allegheny      | .05          | .36 |     |     |   |   | .05 | .27 | .10 | .05 |     | .78  | .23  | .14 |     |     |     | .14 |     |     | .08 | .10 |     | T.  | T.  | T.  | .08 |     |    | T.  | 2.35 |       |      |
| Clymer\|\| | Conemaugh      | .11          | .05 | .21 | .06 |   |   | T.  | .30 | .17 | .08 |     | .40  | .33  | .12 |     | T.  |     | .30 |     |     | .05 | .07 |     | T.  | T.  |     | .10 | .22 |    |     | T.   | 2.33  |      |
| Confluence\|\|\| | Youghiogheny   | .07          |     | .15 | .05 |   |   |     | .20 |     |     |     | .35  |      |     |     |     | .05 | .20 |     |     | .06 | .04 |     |     |     |     | .10 | .22 |    |     | T.   | 1.49  |      |
| Coraopolis\|\|\| | Ohio           | .04          | .05 | .34 | .02 |   |   |     | .09 | .26 | .08 | T.  | .24  | .62  | .06 | T.  | T.  | .02 | .09 |     |     | T.  | .15 |     | T.  | .01 | .05 | .02 | T.  | T. | T.  | 2.14 |       |      |
| Corry            | Allegheny      | .09          |     | .01 | .01 |   |   | .38 | .55 | .45 | .62 |     | .02  | .03  |     | .36 | .09 |     | .49 |     |     | .07 | .15 |     | .25 | .32 | .45 | .06 |     |    |     | .03  | 4.43  |      |
| Coudersport      | Allegheny      |              | .38 |     |     |   |   | .33 | .47 | .40 | T.  | .26 | .86  | .28  |     | T.  |     | .15 | .02 |     |     | .10 | .01 |     |     | .03 |     |     |     |    | .01 | 3.30 |       |      |
| Derry            | Conemaugh      |              | .15 | .05 | .08 |   |   |     | .15 | .07 | .13 |     | .23  | .24  |     |     |     | .23 | .09 | .12 |     | .09 | .12 |     | .04 |     | .18 |     |     |    | .04 | 1.80 |       |      |
| Donora\|\|\| | Monongahela    | .14          | T.  | .18 | .10 |   |   | *   | .12 | .08 |     |     | .28  | T.   | T.  | T.  | T.  | T.  | .10 |     |     | .05 | .15 |     | T.  |     | .03 | .10 |     |    | T.  | 1.33 |       |      |
| Ebensburg        | Conemaugh      |              | .02 | .06 |     |   |   |     | .20 | .10 |     |     | .39  | .22  | .10 |     |     | T.  | .20 |     |     | .20 |     |     | .20 |     | .20 |     |     |    |     |      | 1.69  |      |
| Elk Lick         | Youghiogheny   |              | .60 |     |     |   |   |     | .40 | .08 |     |     |      |      |     |     |     | .20 | .20 |     |     | .20 |     |     | .10 | .10 | .20 |     |     |    | .20 | 2.88 |       |      |
| Falls Creek      | Allegheny      | .08          |     | .26 |     |   |   | .03 | .49 | .38 |     |     | 1.03 | .37  | .16 |     | T.  |     | .17 |     |     |     | .15 |     |     | .07 |     |     |     |    | .07 | 3.28 |       |      |
| Franklin\|\|\| | Allegheny      | .04          |     | .42 | .04 |   |   |     | .59 | .70 | .26 |     | .76  | .78  | .17 |     |     | .03 | .30 |     |     |     | .12 |     |     | .04 | .02 |     |     |    |     | T.   | 4.27  |      |
| Freeport\|\|\| | do             | .08          | .06 | .35 | .02 |   |   |     | .15 | .33 | .06 |     | .43  | .50  | .08 | .01 | T.  | T.  | .16 |     |     | .01 | .16 | .01 | T.  | T.  | .03 | T.  | .03 | T. |     |      | T.    | 2.44 |
| Greensboro       | Monongahela    | .10          | .02 | .08 | .02 |   |   |     | .01 | .05 | .04 | .03 | .14  | .06  | .04 | .01 |     | .02 | .13 |     | T.  | .12 | .03 |     | T.  | T.  | .04 | .14 | .02 |    |     |      | 1.10  |      |
| Greensburg       | Youghiogheny   | .11          | .19 | .02 | .03 |   |   | T.  | .12 | .05 | .04 | T.  | .22  | .29  | .02 |     | .06 | .03 | .16 |     |     | .11 | .12 |     | T.  | T.  | .14 |     |     |    |     | .02  | 1.73  |      |
| Greenville       | Beaver         |              | .43 | .06 | .04 |   |   | .24 | .71 | .35 | .05 |     | .85  | .47  | .49 | .05 | .06 | T.  | .30 |     |     | .05 | .04 |     | .08 |     | T.  | T.  | T.  |    |     | T.   | 4.27  |      |
| Grove City       | do             | .19          | .27 |     | .10 |   |   | .07 | .51 | .33 | .04 |     | .77  | .64  | .41 |     | .02 | .01 | .21 |     | T.  | .08 | .03 |     | T.  |     | T.  | T.  |     |    |     | T.   | 3.68  |      |
| Herr's Isl. Dam\|\|\| | Ohio           |              | T.  | .21 | .03 |   |   |     | .05 | .25 | .05 |     | .04  | .45  | .03 | T.  |     | T.  | .08 |     |     | .01 | .35 | .02 |     | T.  | .11 | .17 | .01 |    |     | T.   | 1.86  |      |
| Ingram           | do             | .05          | .25 | .10 | T.  |   |   | .05 | .18 | .23 | .06 |     | .31  | .42  | .05 |     | T.  | T.  | .17 |     | T.  | .09 | .21 |     | .03 | T.  | .03 | T.  | T.  |    |     | .03  | 2.26  |      |
| Irwin            | Youghiogheny   |              | .23 | .06 | T.  |   |   | .04 | .13 | .07 | T.  |     | .22  | .29  | .03 |     | T.  | T.  | .10 |     |     | .10 | .10 |     |     |     | .14 |     |     |    |     | T.   | 1.51  |      |
| Johnstown        | Conemaugh      | .10          |     | .18 | .03 |   |   | .18 | .11 | .01 | .04 | .57 | .22  | .10  | .02 | .05 | .05 | .20 |     |     | .01 | .14 |     |     | .03 | T.  | .19 | .04 | .02 |    |     | .02  | 2.31  |      |
| Kregar\|\|\| | Youghiogheny   |              | .13 | .10 |     |   |   | T.  | .25 | .07 |     | .19 | .11  | .19  | .05 | .03 | .12 | .07 |     |     | .15 | .06 |     | .01 | .08 | .17 | T.  | T.  |     |    |     | .05  | 1.83  |      |
| Lock No. 4\|\|\| | Monongahela    | .10          |     | .14 | .06 |   |   | T.  | .09 | .06 | .01 | .07 | .19  | .05  | .02 |     | T.  | .14 | .03 |     |     | .02 | .14 | .02 |     | T.  | T.  | .03 | .09 |    |     |      | 1.26  |      |
| Lycippus         | Conemaugh      |              | .20 | .16 |     |   |   |     | .16 |     | .13 |     | T.   | .45  | .08 | T.  |     |     | .23 |     |     | T.  | .09 |     |     |     |     | .21 |     |    |     | .03  | 1.74  |      |
| Meadville        | Allegheny      | .05          | .27 | .11 | T.  |   |   | .25 | .80 | .70 | .20 |     | .69  | .61  | .58 |     | .05 |     | .27 |     |     | .12 | .09 |     | T.  |     | .04 |     |     |    |     | .02  | 1.79  |      |
| Mount Lebanon    | Ohio           | .03          | .20 | .04 | .06 |   |   | T.  | .17 |     | T.  | .32 | .19  | .35  | .03 |     | T.  | .13 |     |     | .13 |     |     | .12 | .09 |     | T.  |     | .04 |    |     | .02  | 4.11  |      |
| New Castle\|\|\| | Beaver         | .09          | .08 | .42 | .15 |   |   | .29 | .58 | .13 |     |     | .69  | .84  | .12 | .03 | .02 | .08 | .13 | .05 | .01 | .08 | .18 | .03 | .03 | .02 | .01 | .01 | .01 |    |     | .03  | 0.94  |      |
| Newell           | Monongahela    |              |     | .14 |     |   |   |     | .05 | .01 |     |     | .15  | .19  |     |     |     |     | .20 |     |     | .05 | .05 |     | .05 |     |     |     |     |    |     | .05  | 4.63  |      |
| Parkers Landing\|\|\| | Allegheny      | .08          | .38 | .50 | .05 |   |   | T.  | .35 | .72 | .10 |     | .70  | 1.08 | .12 | .05 | T.  | T.  | .30 | T.  |     | T.  | .10 | T.  |     | T.  | .10 | T.  | T.  |    |     | T.   |       |      |
| Pennline\|\|\|† | Beaver         | .05          | .18 | .25 | .07 |   |   |     | .85 | .57 | .47 | T.  | .69  | .39  | .10 | .17 | .02 | .01 | .36 |     |     | T.  | .09 |     |     | .03 | .07 | .02 | .01 |    |     |      | 4.40  |      |
| Pittsburgh***    | Ohio           | .04          | .21 | .07 |     |   |   | .03 | .09 | .14 | .03 | T.  | .19  | .29  | T.  |     | T.  | .03 | .14 |     | T.  | .21 | .10 |     | T.  | .05 | .01 | .02 |     |    |     | .02  | 1.67  |      |
| Ridgway          | Allegheny      |              | .02 | .58 |     |   |   |     | .38 | .51 | .22 |     | .76  | 1.01 | .11 |     |     |     | .07 |     |     | .02 | .14 | .01 |     | .01 | .02 | T.  |     |    |     |      | 3.86  |      |
| Saltsburg\|\|\| | Conemaugh      | .07          | .02 | .28 | .09 |   |   |     | .04 | .29 | .05 | T.  | .11  | .34  | .09 | T.  | .02 | .20 | .03 |     |     | .04 | .18 | .04 |     | .05 | .05 | .03 |     |    |     | T.   | 2.02  |      |
| Sharon\|\|\| | Beaver         | T.           | .12 |     | .02 |   |   |     | .38 | .42 | .14 |     | .30  | 1.00 | .22 | .22 |     | .02 | .16 |     |     | .02 |     |     | .02 |     | .02 | .01 | .20 | T. |     | .09  | 1.73  |      |
| Somerset         | Youghiogheny   | T.           | .05 | .05 | .18 |   |   |     | .15 | .15 |     |     | .28  | .08  | .08 |     |     |     | .20 |     |     | T.  | .19 |     |     | .02 | .01 | .20 | T.  |    |     |      |       |      |
| Springdale\|\|\| | Allegheny      | .05          | .03 | .35 | .06 |   |   |     | .09 | .31 | .05 | .01 | .15  | .59  | .08 | .01 | T.  | .04 | .12 | T.  |     | .02 | .19 | .02 |     | T.  | .02 | .06 | .01 |    |     | T.   | 2.26  |      |
| Uniontown        | Monongahela    | .10          | .09 | .06 |     |   |   | .04 | T.  | .10 |     |     | .21  | .14  | .03 |     | T.  |     | .28 |     |     | .03 | .16 | T.  |     | T.  | .18 | .04 |     |    |     | .02  | 1.48  |      |
| Unity Reservoir† | Youghiogheny   | .12          | .13 | .12 | .10 |   |   |     | .17 | .08 | T.  |     | .30  | .26  |     |     | T.  | T.  | .30 |     |     | .12 | .17 |     | T.  |     | .17 |     |     |    |     | .08  | 2.12  |      |
| Vandergrift†     | Conemaugh      | .02          | .39 | .01 |     |   |   | .05 | .22 | .10 |     |     | .32  | .32  | .01 |     |     | .03 |     |     |     | .02 |     |     |     |     |     |     |     |    |     | .01  | 1.47  |      |
| Warren           | Allegheny      |              | .10 | .20 | .03 |   |   | .20 | .90 | .76 | .15 | .54 | .20  | .10  | .10 | .03 | .03 | .03 | .22 |     |     |     | .13 |     |     | .15 |     | T.  | .08 |    |     | .05  | 4.00  |      |
| Westford\|\|\| | Beaver         | .70          | .28 |     |     |   |   | .72 | .42 | .34 |     | .19 | .52  | .18  |     |     | T.  | .19 |     |     |     | .06 |     |     | .18 | .21 |     |     |     |    | .02 | 4.01 |       |      |
| West Newton\|\|\| | Youghiogheny   | .12          |     | .16 | .05 |   |   | T.  | .11 | T.  |     |     | .12  | .21  | .05 | .02 |     |     | .20 |     |     | .02 | .17 |     |     |     |     |     | .12 |    |     |      | 1.35  |      |
| Zelienople\|\|\| | Ohio           | .10          | .30 | .13 | .02 |   |   | T.  | .52 | .28 | T.  |     | .92  | .62  | .20 |     | .01 |     | .13 |     |     | .04 | .04 |     |     |     | .01 | .02 |     |    |     | T.   | 3.34  |      |
| Lake Drainage.   |                |              |     |     |     |   |   |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |      |       |      |
| Erie***          | Lake Erie      | .01          | .48 | T.  |     |   |   | T.  | .55 | .69 | .91 | T.  | T.   | .41  | .20 | .08 | T.  | T.  | .07 | .20 |     |     | .15 | .08 |     | T.  | .01 |     | .04 | T. |     | .01  | 3.89  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

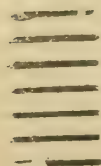
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing. † Daily amounts inconsistent. †† Post Office addresses are as follows: of Blossville  
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasimink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah.  
‡ Mdt. to mdt.



Daily Temperatures for January, 1930

| Stations           | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22 | 23  | 24 | 25  | 26 | 27  | 28 | 29 | 30 | 31 | Mean |      |      |
|--------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|-----|----|-----|----|-----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum..... | 40 | 47 | 42 | 35 | 34 | 47 | 56 | 61 | 65 | 43 | 32 | 36 | 39 | 41 | 49 | 33 | 34 | 33 | 17  | 23  | 29 | 29  | 22 | 24  | 29 | 19  | 29 | 38 | 28 | 24 | 29   | 35.7 |      |
|                    | Minimum..... | 30 | 30 | 31 | 32 | 18 | 18 | 24 | 35 | 47 | 36 | 17 | 17 | 32 | 33 | 38 | 31 | 16 | 16 | 2   | -1  | 1  | 22  | 15 | 3   | 9  | 9   | 15 | 13 | 19 | 5  | 19.9 |      |      |
| Altoona.....       | Maximum..... | 43 | 64 | 55 | 36 | 41 | 48 | 59 | 59 | 53 | 46 | 26 | 35 | 51 | 49 | 48 | 38 | 22 | 22 | 17  | 22  | 26 | 26  | 18 | 26  | 25 | 21  | 26 | 40 | 35 | 26 | 36.5 |      |      |
|                    | Minimum..... | 30 | 34 | 35 | 21 | 5  | 20 | 35 | 47 | 46 | 26 | 13 | 23 | 34 | 40 | 43 | 21 | 3  | 7  | -5  | 0   | 8  | 16  | -2 | 1   | 2  | 5   | 16 | 24 | 10 | 11 | 18.7 |      |      |
| Beaver Dam.....    | Maximum..... | 58 | 58 | 48 | 38 | 49 | 58 | 58 | 55 | 55 | 42 | 37 | 50 | 54 | 58 | 58 | 38 | 27 | 28 | 12  | 21  | 29 | 29  | 21 | 25  | 25 | 23  | 34 | 37 | 32 | 31 | 39.5 |      |      |
|                    | Minimum..... | 31 | 39 | 33 | 19 | 17 | 28 | 50 | 44 | 35 | 23 | 19 | 35 | 42 | 42 | 36 | 22 | 12 | 8  | -1  | 3   | 20 | 15  | 2  | 5   | 15 | -2  | 20 | 32 | 11 | 13 | 22.0 |      |      |
| Bellefonte.....    | Maximum..... | 42 | 57 | 49 | 32 | 39 | 48 | 61 | 58 | 51 | 52 | 28 | 36 | 40 | 48 | 46 | 29 | 24 | 26 | 15  | 21  | 27 | 31  | 16 | 25  | 24 | 22  | 24 | 37 | 26 | 29 | 35.1 |      |      |
|                    | Minimum..... | 28 | 30 | 32 | 20 | 16 | 20 | 44 | 49 | 36 | 15 | 13 | 27 | 32 | 35 | 29 | 14 | 12 | -4 | -4  | -7  | 18 | 2   | -1 | 2   | 9  | -2  | 10 | 21 | 10 | 4  | 16.6 |      |      |
| Brookville.....    | Maximum..... | 41 | 50 | 44 | 32 | 47 | 58 | 58 | 55 | 52 | 50 | 32 | 46 | 51 | 57 | 51 | 25 | 25 | 25 | 15  | 24  | 29 | 26  | 14 | 22  | 20 | 23  | 34 | 39 | 25 | 34 | 36.5 |      |      |
|                    | Minimum..... | 29 | 33 | 16 | 10 | 10 | 19 | 43 | 43 | 42 | 13 | 14 | 30 | 39 | 43 | 23 | 11 | 15 | -9 | -13 | -9  | 20 | -12 | -2 | -3  | 8  | -23 | 7  | 10 | 0  | -1 | 13.1 |      |      |
| Butler.....        | Maximum..... | 40 | 52 | 44 | 38 | 38 | 54 | 57 | 57 | 59 | 57 | 31 | 34 | 40 | 43 | 44 | 44 | 26 | 24 | 18  | 25  | 29 | 35  | 25 | 25  | 32 | 26  | 26 | 38 | 36 | 23 | 29   | 37.2 |      |
|                    | Minimum..... | 25 | 30 | 38 | 30 | 16 | 38 | 27 | 39 | 44 | 31 | 14 | 24 | 31 | 34 | 40 | 26 | 14 | 18 | 0   | -16 | 19 | 23  | 7  | -10 | -3 | 2   | 7  | 24 | 11 | 5  | -7   | 18.7 |      |
| Catawissa.....     | Maximum..... | 44 | 41 | 44 | 34 | 48 | 51 | 60 | 61 | 50 | 44 | 35 | 36 | 44 | 47 | 46 | 32 | 33 | 32 | 18  | 24  | 31 | 32  | 19 | 29  | 29 | 23  | 33 | 43 | 29 | 28 | 31   | 37.1 |      |
|                    | Minimum..... | 23 | 29 | 35 | 25 | 13 | 20 | 37 | 50 | 44 | 36 | 13 | 15 | 24 | 24 | 32 | 16 | 13 | 27 | -3  | -8  | 16 | 20  | 6  | -5  | 12 | -4  | 9  | 25 | 11 | 15 | 0    | 18.4 |      |
| Chambersburg.....  | Maximum..... | 41 | 48 | 49 | 39 | 38 | 49 | 60 | 55 | 68 | 56 | 32 | 33 | 37 | 53 | 56 | 61 | 59 | 26 | 19  | 14  | -7 | -12 | 20 | 19  | 8  | 2   | -2 | 13 | 24 | 13 | -8   | 19.6 |      |
|                    | Minimum..... | 29 | 30 | 39 | 28 | 17 | 18 | 28 | 37 | 44 | 32 | 19 | 24 | 31 | 34 | 39 | 35 | 26 | 30 | 17  | 23  | 32 | 30  | 16 | 25  | 26 | 25  | 36 | 40 | 35 | 31 | 30   | 41.4 |      |
| Claysville.....    | Maximum..... | 64 | 59 | 40 | 35 | 55 | 57 | 61 | 62 | 63 | 63 | 37 | 53 | 56 | 61 | 50 | 43 | 20 | 9  | 6   | -3  | 0  | 21  | 16 | -3  | 4  | 13  | -6 | 21 | 32 | 7  | 14   | 22.1 |      |
|                    | Minimum..... | 34 | 38 | 31 | 16 | 20 | 32 | 51 | 54 | 42 | 22 | 20 | 35 | 46 | 50 | 33 | 20 | 9  | 6  | -3  | 0   | 19 | 27  | 32 | 23  | 28 | 26  | 23 | 29 | 40 | 37 | 34   | 29   | 38.5 |
| Clearfield.....    | Maximum..... | 40 | 53 | 52 | 50 | 43 | 58 | 60 | 58 | 55 | 48 | 31 | 35 | 45 | 50 | 49 | 48 | 30 | 33 | 16  | 27  | 32 | 40  | 27 | 27  | 30 | 25  | 34 | 39 | 33 | 25 | 32   | 39.7 |      |
|                    | Minimum..... | 31 | 30 | 33 | 30 | 23 | 17 | 30 | 35 | 40 | 25 | 12 | 25 | 33 | 44 | 35 | 20 | 13 | 2  | -5  | -4  | 19 | 18  | -4 | 2   | 10 | -8  | 9  | 26 | 11 | 8  | 5    | 18.1 |      |
| Coatesville.....   | Maximum..... | 46 | 56 | 49 | 40 | 36 | 49 | 56 | 63 | 68 | 60 | 29 | 41 | 48 | 44 | 49 | 48 | 30 | 33 | 16  | 27  | 32 | 40  | 27 | 27  | 30 | 25  | 34 | 39 | 33 | 25 | 32   | 39.7 |      |
|                    | Minimum..... | 23 | 23 | 36 | 20 | 12 | 16 | 34 | 35 | 49 | 23 | 14 | 25 | 34 | 36 | 43 | 23 | 15 | 11 | -8  | -4  | 22 | 18  | 6  | -4  | 4  | 5   | 5  | 25 | 15 | 18 | 5    | 19.0 |      |
| Corry.....         | Maximum..... | 48 | 54 | 38 | 36 | 47 | 54 | 53 | 54 | 44 | 33 | 39 | 48 | 46 | 56 | 55 | 30 | 31 | 26 | 16  | 25  | 27 | 23  | 12 | 20  | 22 | 16  | 32 | 34 | 27 | 28 | 23   | 35.4 |      |
|                    | Minimum..... | 26 | 35 | 29 | 20 | 16 | 38 | 49 | 40 | 31 | 12 | 10 | 27 | 34 | 38 | 28 | 13 | 12 | 13 | 7   | 0   | 13 | 6   | 6  | 1   | 10 | 13  | 7  | 24 | 5  | 12 | 10   | 18.7 |      |
| Emporium.....      | Maximum..... | 45 | 55 | 45 | 35 | 43 | 56 | 60 | 56 | 56 | 49 | 30 | 38 | 42 | 51 | 50 | 32 | 27 | 25 | 17  | 22  | 30 | 28  | 16 | 23  | 16 | 3   | 37 | 32 | 17 | 12 | 3    | 17.5 |      |
|                    | Minimum..... | 24 | 35 | 35 | 21 | 11 | 18 | 48 | 48 | 38 | 18 | 10 | 28 | 35 | 38 | 32 | 16 | 14 | 5  | -7  | -3  | 20 | 8   | -3 | -2  | 12 | -12 | 8  | 27 | 12 | 3  | 4    | 33.7 |      |
| Erie.....          | Maximum..... | 59 | 57 | 35 | 30 | 47 | 57 | 57 | 57 | 57 | 31 | 26 | 34 | 38 | 59 | 41 | 22 | 24 | 26 | 16  | 25  | 25 | 18  | 12 | 22  | 22 | 17  | 34 | 35 | 21 | 26 | 24   | 19.0 |      |
|                    | Minimum..... | 39 | 33 | 30 | 23 | 25 | 45 | 41 | 30 | 26 | 11 | 10 | 34 | 35 | 22 | 16 | 15 | -1 | -1 | 9   | 18  | 5  | 2   | 6  | 7   | 2  | 17  | 16 | 11 | 6  | 18 | 10   | 37.4 |      |
| Franklin.....      | Maximum..... | 59 | 54 | 44 | 34 | 48 | 58 | 57 | 57 | 52 | 25 | 40 | 50 | 52 | 59 | 50 | 38 | 29 | 14 | 18  | 24  | 28 | 22  | 13 | 22  | 24 | 23  | 34 | 35 | 24 | 37 | 26   | 37.2 |      |
|                    | Minimum..... | 28 | 35 | 31 | 21 | 15 | 21 | 40 | 46 | 35 | 23 | 12 | 18 | 38 | 40 | 36 | 18 | 13 | 12 | -5  | -4  | 4  | 14  | 3  | 1   | 5  | -4  | -3 | 22 | 11 | 3  | 4    | 17.2 |      |
| Freeland.....      | Maximum..... | 40 | 55 | 46 | 31 | 31 | 45 | 54 | 54 | 61 | 55 | 23 | 38 | 48 | 46 | 46 | 36 | 22 | 29 | 14  | 25  | 29 | 27  | 18 | 25  | 23 | 19  | 26 | 45 | 36 | 24 | 28   | 35.5 |      |
|                    | Minimum..... | 30 | 37 | 30 | 19 | 11 | 23 | 37 | 46 | 52 | 12 | 7  | 20 | 37 | 36 | 35 | 18 | 4  | 14 | -6  | -2  | 16 | 17  | 2  | 0   | 8  | -2  | 18 | 24 | 8  | 9  | 10   | 18.5 |      |
| Gettysburg.....    | Maximum..... | 46 | 55 | 49 | 41 | 39 | 47 | 59 | 61 | 68 | 62 | 34 | 33 | 41 | 43 | 48 | 45 | 29 | 32 | 20  | 27  | 29 | 29  | 28 | 30  | 31 | 27  | 30 | 36 | 40 | 25 | 33   | 39.3 |      |
|                    | Minimum..... | 29 | 33 | 39 | 30 | 18 | 23 | 32 | 44 | 51 | 33 | 18 | 24 | 32 | 36 | 41 | 28 | 17 | 19 | -1  | -6  | 20 | 20  | 14 | 8   | 6  | 1   | 10 | 26 | 16 | 19 | 8    | 22.0 |      |
| Greensburg.....    | Maximum..... | 62 | 60 | 52 | 36 | 52 | 60 | 64 | 63 | 65 | 63 | 34 | 54 | 55 | 66 | 59 | 36 | 36 | 29 | 15  | 26  | 32 | 28  | 17 | 24  | 25 | 22  | 36 | 38 | 35 | 30 | 28   | 42.0 |      |
|                    | Minimum..... | 34 | 51 | 34 | 18 | 15 | 34 | 50 | 55 | 54 | 24 | 24 | 32 | 47 | 52 | 35 | 20 | 10 | 5  | -2  | 0   | 23 | 16  | 1  | 5   | 14 | 1   | 21 | 34 | 13 | 14 | 15   | 24.2 |      |
| Grove City.....    | Maximum..... | 50 | 55 | 42 | 35 | 47 | 56 | 54 | 56 | 46 | 43 | 34 | 49 | 50 | 58 | 57 | 31 | 33 | 26 | 23  | 20  | 26 | 24  | 13 | 21  | 23 | 17  | 34 | 35 | 30 | 33 | 28   | 37.1 |      |
|                    | Minimum..... | 32 | 41 | 30 | 19 | 17 | 36 | 50 | 45 | 34 | 19 | 14 | 15 | 46 | 48 | 29 | 17 | 13 | 3  | -7  | -5  | 18 | 12  | -2 | 3   | 11 | -8  | 14 | 29 | 8  | 7  | 8    | 19.2 |      |
| Hamburg.....       | Maximum..... | 48 | 52 | 47 | 44 | 37 | 40 | 59 | 58 | 63 | 57 | 26 | 36 | 39 | 42 | 47 | 45 | 26 | 31 | 34  | 24  | 31 | 31  | 29 | 30  | 28 | 25  | 30 | 37 | 36 | 26 | 28   | 38.3 |      |
|                    | Minimum..... | 25 | 31 | 32 | 30 | 15 | 14 | 31 | 32 | 46 | 26 | 14 | 23 | 33 | 34 | 39 | 18 | 16 | 14 | 2   | -4  | 18 | 20  | 8  | -8  | 4  | 1   | 15 | 25 | 16 | 11 | -2   | 18.7 |      |
| Harrisburg.....    | Maximum..... | 39 | 52 | 48 | 36 | 37 | 48 | 60 | 60 | 55 | 27 | 35 | 41 | 43 | 48 | 38 | 25 | 30 | 20 | 24  | 30  | 32 | 26  | 28 | 30  | 23 | 27  | 38 | 31 | 26 | 38 | 37.1 |      |      |
|                    | Minimum..... | 32 | 31 | 36 | 28 | 22 | 27 | 37 | 45 | 51 | 20 | 19 | 27 | 33 | 37 | 38 | 22 | 18 | 10 | 7   | 5   | 21 | 21  | 14 | 9   | 19 | 12  | 15 | 25 | 18 | 16 | 8    | 23.3 |      |
| Hawley.....        | Maximum..... | 35 | 52 | 49 | 34 | 33 | 50 | 54 | 56 | 55 | 43 | 28 | 33 | 38 | 46 | 40 | 21 | 31 | 30 | 24  | 29  | 28 | 26  | 24 | 24  | 22 | 29  | 42 | 39 | 24 | 26 | 35.6 |      |      |
|                    | Minimum..... | 19 | 30 | 34 | 22 | 6  | 13 | 35 | 43 | 43 | 20 | 9  | 21 | 32 | 36 | 36 | 21 | 9  | 18 | -4  | -11 | 19 | 21  | -3 | -3  | 13 | -3  | 0  | 24 | 14 | 9  | -3   | 16.8 |      |
| Huntingdon.....    | Maximum..... | 45 | 58 | 54 | 37 | 41 | 51 | 63 | 60 | 60 | 54 | 30 | 36 | 43 | 42 | 48 | 43 | 26 | 25 | 22  | 25  | 27 | 31  | 23 | 0   | -2 | 16  | 1  | 13 | 24 | 10 | 9    | 19.3 |      |
|                    | Minimum..... | 25 | 30 | 36 | 26 | 11 | 14 | 31 | 50 | 48 | 29 | 15 | 21 | 32 | 36 | 40 | 24 | 16 | 12 | -1  | -10 | 19 | 23  | 0  | -2  | 16 | 1   | 13 | 24 | 10 | 9  | 0    | 19.3 |      |
| Johnstown.....     | Maximum..... | 48 | 63 | 54 | 31 | 44 | 57 | 61 | 60 | 64 | 54 | 30 | 43 | 54 | 55 | 52 | 32 | 27 | 26 | 18  | 31  | 34 | 28  | 18 | 30  | 25 | 24  | 35 | 41 | 27 | 30 | 39.5 |      |      |
|                    | Minimum..... | 32 | 37 | 30 | 21 | 14 | 23 | 36 | 48 | 48 | 24 | 20 | 29 | 42 | 49 | 32 | 20 | 16 | 6  | 2   | 5   | 24 | 16  | 6  | 10  | 15 | 8   | 24 | 27 | 14 | 16 | 13   | 22.8 |      |
| Lancaster.....     | Maximum..... | 45 | 58 | 50 | 42 | 36 | 51 | 58 | 63 | 69 | 64 | 46 | 37 | 43 | 44 | 46 | 48 | 32 | 30 | 20  | 21  | 32 | 34  | 28 | 31  | 34 | 29  | 36 | 44 | 39 | 25 | 30   | 40.8 |      |
|                    | Minimum..... | 23 | 26 | 33 | 28 | 15 | 16 | 27 | 26 | 43 | 38 | 20 | 22 | 29 | 30 | 39 | 24 | 13 | 18 | -24 | -17 | 19 | 20  | 7  | -16 | -6 | -5  | -3 | 23 | 11 | 3  | -10  | 15.2 |      |
| Lawrenceville..... | Maximum..... | 41 | 41 | 41 | 34 | 33 | 42 | 53 | 55 | 64 |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |     |    |    |    |    |      |      |      |







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## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV.

FEBRUARY, 1930.

No. 2

## GENERAL SUMMARY.

February was unusually mild, especially the last ten days, during which time all previous February records for high temperatures were broken at many stations. The maximum for the State, 80 degrees at Quakertown, has been exceeded only once during the 42 years of the State Weather Service. The precipitation averaged nearly normal, but occurred mostly as rain. The snowfall was a little more than a third of the February normal. Moderately heavy snows occurred locally at a few stations, but the snow melted rapidly and soon disappeared. The ice harvest in the Pocono mountains was suspended when about two-thirds of the usual supply had been housed. Fields were bare of snow cover most of the time, but the frost did not penetrate the soil deeply, and the winter grains suffered but little if any damage, and were generally reported to be in good to excellent condition at the close of the month. During the excessive temperatures the grain started to grow, and the fields became quite green. Buds swelled on orchard trees in sheltered places, and some damage resulted. The month was favorable for outdoor work, and plowing was reported from a few places. The ice began to break in the streams of the Ohio watershed on the 23d, and thunderstorms with moderately heavy rainfall intensified the condition on the 24th, resulting in ice jams at several places. No damaging floods occurred in the larger streams, although near flood conditions were reached at several stations. Many creeks and small streams were flooded, and caused some damage. Cloudiness was excessive excepting a few southeastern counties where the sunshine was near the normal. The month was free from damaging storms excepting local thunderstorm winds which attained gale force in a few places.

## TEMPERATURE.

The mean temperature of the State, as shown by reports from 89 stations, was 35.1°, which is 7.4° in excess of the February normal. The highest monthly mean was 41.0°, at Uniontown, and the lowest 26.6° at Mount Pocono. The highest temperature recorded during the month was 80°, at Quakertown on the 25th, while the lowest, -18°, was registered at Brookville on the 16th. The greatest daily range of temperature was 50°, at Lancaster on the 20th.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations made at 134 stations, was 2.69 inches, which exceeds the February normal by 0.03 inch. The greatest monthly total was 4.88 inches at Cresson, and the least 0.93 inch at Lloyd. The greatest amount recorded in any 24 consecutive hours was 2.73 inches at Coraopolis on the 24-25th. Snowfall averaged 3.9 inches, which is 6.5 inches less than the normal for the month. The greatest monthly total was 15.5 inches at Cresson, which station also reports the greatest 24-hour fall: 7.0 inches on the 4th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 103.0                   | 296.6                    | 35                     | 80               | 75       | 76      | 8,682                    | 12.9                        | 38        | sw.       |
| Harrisburg.....   | 140.8                   | 299.7                    | 47                     | 70               | 59       | 63      | 3,661                    | 5.4                         | 24        | sw.       |
| Philadelphia..... | 179.2                   | 299.7                    | 60                     | 65               | 53       | 62      | 8,182                    | 12.2                        | 35        | n.        |
| Pittsburgh.....   | 110.8                   | 298.2                    | 37                     | 74               | 63       | 66      | 6,440                    | 9.6                         | 38        | w.        |
| Reading.....      | 146.5                   | 299.7                    | 49                     | 74               | 63       | 68      | 3,679                    | 5.5                         | 20        | w.        |
| Scranton.....     | 143.2                   | 298.2                    | 48                     | 84               | 69       | 73      | 4,153                    | 6.2                         | 23        | n.w.      |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR FEBRUARY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 28.4        | 63      | -31    | 2.50          | 4.97     | 0.89  | 7           | 11            | 11     | 9                      |
| 1889..... | 23.0        | 60      | -27    | 1.96          | 3.87     | 0.97  | 7           | 9             | 12     | 9                      |
| 1890..... | 37.0        | 79      | 0      | 4.32          | 6.39     | 2.28  | 6           | 8             | 14     | 11                     |
| 1891..... | 34.8        | 70      | -7     | 4.61          | 8.29     | 2.13  | 6           | 8             | 14     | 12                     |
| 1892..... | 31.6        | 62      | -18    | 1.75          | 4.48     | 0.43  | 7           | 7             | 15     | 9                      |
| 1893..... | 27.3        | 60      | -16    | 5.92          | 9.28     | 2.92  | 6           | 8             | 14     | 14                     |
| 1894..... | 27.6        | 64      | -24    | 3.53          | 5.59     | 1.62  | 8           | 9             | 11     | 11                     |
| 1895..... | 20.2        | 60      | -26    | 1.22          | 3.47     | 0.17  | 10          | 10            | 8      | 6                      |
| 1896..... | 29.4        | 65      | -21    | 4.90          | 9.08     | 1.94  | 9           | 7             | 13     | 11                     |
| 1897..... | 30.6        | 67      | -14    | 3.28          | 6.67     | 1.04  | 7           | 8             | 13     | 9                      |
| 1898..... | 29.4        | 72      | -16    | 2.23          | 4.05     | 0.96  | 8           | 8             | 12     | 9                      |
| 1899..... | 22.7        | 67      | -39    | 4.05          | 10.22    | 0.98  | 8           | 7             | 13     | 12                     |
| 1900..... | 27.1        | 81      | -17    | 4.22          | 7.75     | 1.00  | 8           | 6             | 14     | 11                     |
| 1901..... | 21.7        | 57      | -22    | 0.96          | 2.75     | 0.27  | 10          | 9             | 9      | 8                      |
| 1902..... | 23.9        | 64      | -24    | 3.99          | 7.43     | 0.45  | 9           | 7             | 12     | 10                     |
| 1903..... | 30.5        | 68      | -17    | 4.49          | 6.13     | 1.80  | 10          | 7             | 11     | 10                     |
| 1904..... | 21.8        | 68      | -27    | 2.41          | 4.80     | 0.92  | 10          | 7             | 12     | 11                     |
| 1905..... | 20.8        | 59      | -25    | 1.70          | 2.83     | 0.44  | 10          | 8             | 10     | 8                      |
| 1906..... | 28.0        | 79      | -21    | 1.70          | 3.80     | 0.36  | 12          | 7             | 9      | 7                      |
| 1907..... | 22.8        | 56      | -20    | 1.91          | 4.37     | 0.66  | 12          | 7             | 9      | 8                      |
| 1908..... | 24.8        | 64      | -29    | 4.65          | 8.15     | 2.51  | 10          | 7             | 12     | 11                     |
| 1909..... | 35.8        | 73      | -9     | 4.84          | 9.86     | 2.40  | 6           | 7             | 15     | 14                     |
| 1910..... | 26.6        | 65      | -22    | 3.59          | 5.39     | 1.41  | 9           | 7             | 12     | 11                     |
| 1911..... | 31.0        | 66      | -8     | 2.27          | 3.76     | 0.85  | 7           | 6             | 15     | 10                     |
| 1912..... | 23.7        | 69      | -27    | 2.20          | 4.05     | 0.37  | 11          | 8             | 10     | 8                      |
| 1913..... | 27.4        | 67      | -9     | 1.84          | 4.61     | 0.88  | 12          | 5             | 11     | 9                      |
| 1914..... | 21.8        | 65      | -27    | 2.78          | 6.20     | 1.30  | 11          | 6             | 11     | 10                     |
| 1915..... | 33.3        | 73      | -9     | 3.90          | 6.95     | 1.85  | 9           | 5             | 14     | 9                      |
| 1916..... | 25.7        | 67      | -22    | 3.08          | 5.86     | 1.30  | 8           | 7             | 14     | 12                     |
| 1917..... | 25.6        | 68      | -29    | 1.46          | 3.37     | 0.35  | 9           | 9             | 10     | 10                     |
| 1918..... | 28.2        | 69      | -34    | 2.46          | 4.82     | 0.55  | 10          | 8             | 10     | 9                      |
| 1919..... | 32.0        | 66      | -7     | 2.23          | 4.27     | 1.03  | 12          | 6             | 10     | 11                     |
| 1920..... | 25.6        | 62      | -20    | 2.44          | 5.23     | 0.70  | 9           | 8             | 12     | 11                     |
| 1921..... | 32.8        | 76      | -15    | 2.59          | 4.79     | 1.41  | 8           | 8             | 12     | 10                     |
| 1922..... | 33.0        | 74      | -19    | 1.99          | 3.61     | 0.67  | 9           | 9             | 10     | 10                     |
| 1923..... | 24.6        | 58      | -20    | 2.16          | 4.80     | 0.65  | 8           | 8             | 12     | 12                     |
| 1924..... | 26.9        | 70      | -25    | 2.94          | 5.16     | 1.27  | 11          | 7             | 11     | 10                     |
| 1925..... | 35.6        | 71      | -11    | 2.16          | 4.61     | 0.55  | 11          | 7             | 10     | 8                      |
| 1926..... | 28.7        | 65      | -13    | 4.06          | 7.29     | 1.84  | 7           | 6             | 15     | 12                     |
| 1927..... | 35.0        | 69      | -8     | 3.48          | 5.94     | 1.25  | 7           | 8             | 13     | 13                     |
| 1928..... | 30.3        | 65      | -11    | 3.42          | 5.39     | 1.62  | 10          | 7             | 12     | 11                     |
| 1929..... | 28.0        | 69      | -20    | 2.87          | 5.17     | 1.36  | 10          | 8             | 10     | 9                      |
| 1930..... | 35.1        | 80      | -18    | 2.69          | 4.88     | 0.93  | 9           | 6             | 13     | 9                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |               | Date | Lowest stage |               | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|---------------|------|-------------|
|                   |                   | Mean stage | Highest stage |      | Lowest stage | Highest stage |      |             |
| Port Jervis.....  | Delaware.....     | 3.5        | 7.0           | 26   | 2.3          | 12            | 18   |             |
| Phillipsburg..... | Delaware.....     | 4.2        | 8.6           | 23   | 2.5          | 17            | 22   |             |
| Mauch Chunk.....  | Lehigh.....       | -2.4       | -1.0          | 23   | -3.2         | 10            | 12   |             |
| Wilkes-Barre..... | Susquehanna.....  | 5.4        | 16.4          | 27   | 2.7          | 18            | 20   |             |
| Williamsport..... | Susquehanna.....  | 3.1        | 12.0          | 27   | 1.4          | 12            | 20   |             |
| Harrisburg.....   | Susquehanna.....  |            | 11.3          | 28   | 5.2          | 17            | 17   |             |
| Greensboro.....   | Monongahela.....  | 13.9       | 21.1          | 5    | 11.6         | 3             | 30   |             |
| West Newton.....  | Youghiogheny..... | 3.0        | 6.3           | 27   | 1.7          | 2             | 20   |             |
| Lock No. 4.....   | Monongahela.....  | 16.3       | 21.9          | 6    | 13.6         | 3             | 31   |             |
| Pittsburgh.....   | Ohio.....         | 13.7       | 23.9          | 27   | 11.0         | 3             | 25   |             |
| Beaver Dam.....   | Ohio.....         | 11.6       | 27.4          | 27   | 7.7          | 2             | 30   |             |



## Climatological Data for February, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                       |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                              |
| Allentown          | Lehigh       | 254             | 19                      | 32.6                         |                           | 74      | 25   | -3     | 17   | 36                       | 2.36  | -0.65                     | 0.80                 | 3.0                       | 9                            | 15    | 5          | 8                            | ne.       | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 43                      | 35.3                         | +9.5                      | 69      | 20   | -7     | 16   | 33                       | 2.36  | +0.25                     | 0.68                 | 6.9                       | 10                           | 14    | 6          | 8                            | w.        | F. E. Rooney.                |
| Arendtsville       | Adams        | 700             | 6                       | 36.0                         |                           | 78      | 25   | -1     | 16   | 45                       | 2.18  |                           | 0.68                 | 1.0                       | 7                            | 12    | 5          | 11                           | n.        | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 25                      | 31.6                         |                           | 67      | 25   | -5     | 16   | 34                       | 2.71  | +0.19                     | 1.42                 | 5.0                       | 13                           | 5     | 5          | 18                           | sw.       | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 44                      | 36.4                         | +6.6                      | 75      | 25   | 5      | 16   | 42                       | 2.16  | -1.33                     | 0.58                 | 2.7                       | 12                           | 12    | 1          | 15                           | w.        | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 64                      | 35.6                         | +6.2                      | 76      | 25   | 0      | 16   | 42                       | 2.72  | -0.25                     | 0.94                 | 4.0                       | 9                            | 12    | 2          | 14                           | ne.       | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 34                      | 33.6                         | +4.5                      | 71      | 20†  | -2     | 16†  | 44                       | 2.08  | -0.60                     | 0.50                 | 4.4                       | 8                            | 15    | 4          | 9                            |           | H. H. Yetter.                |
| Center Hall        | Center       | 1,272           | 34                      | 32.8                         | +6.9                      | 68      | 21   | -4     | 16   | 35                       | 2.74  | +0.44                     | 1.36                 | 7.5                       | 12                           | 14    | 4          | 10                           |           | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 31                      | 36.8                         | +6.0                      | 76      | 25   | 2      | 16   | 40                       | 1.86  | -1.05                     | 0.51                 | 1.4                       | 12                           | 10    | 7          | 11                           | sw.       | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 21                      | 33.8                         | +6.3                      | 70      | 21   | -6     | 16   | 41                       | 2.52  | -0.17                     | 1.05                 | 3.0                       | 8                            | 9     | 5          | 14                           | ne.       | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 43                      | 35.8                         | +5.9                      | 77      | 25   | -3     | 17   | 40                       | 3.01  | -1.09                     | 1.04                 | 3.8                       | 11                           | 11    | 10         | 7                            | s.        | Prof. W. T. Gordon.          |
| Colebrook          | Lebanon      | 560             | 21                      | 34.0                         | +4.2                      | 74      | 25   | 0      | 16†  | 32                       | 3.02  | +0.10                     | 0.76                 | 4.2                       | 13                           | 13    | 3          | 12                           | w.        | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 43                      | 32.4                         | +7.7                      | 63      | 20†  | -7     | 16   | 35                       | 2.45  | -0.42                     | 0.76                 | 1.5                       | 9                            | 4     | 7          | 17                           | w.        | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 30                      | 36.2                         | +8.1                      | 77      | 25   | 3      | 17   | 41                       | 2.69  | -0.47                     | 0.75                 | 2.8                       | 9                            | 13    | 3          | 12                           | w.        | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 15                      | 31.8                         |                           | 67      | 25   | -5     | 16   | 36                       | 2.16  |                           | 0.56                 | 11.0                      | 12                           | 8     | 6          | 14                           | nw.       | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 24                      | 36.7                         | +7.0                      | 78      | 25   | 1      | 17   | 39                       | 3.36  | +0.26                     | 1.43                 | 2.8                       | 9                            | 15    | 4          | 9                            | n.        | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 57                      | 38.2                         | +7.9                      | 78      | 25   | 1      | 16   | 33                       | 2.26  | -0.55                     | 0.74                 | 1.6                       | 11                           | 11    | 5          | 12                           | s.        | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 27                      | 33.0                         | +7.7                      | 74      | 25   | -9     | 17   | 39                       | 2.51  | -0.96                     | 1.43                 | 7.0                       | 7                            | 11    | 5          | 12                           | w.        | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 27.4                         |                           | 65      | 25   | -8     | 16   | 37                       | 2.46  | -1.27                     | 0.60                 | 8.5                       | 10                           | 11    | 8          | 9                            | sw.       | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 37                      | 33.4                         | +4.6                      | 75      | 25   | -2     | 16   | 42                       | 2.81  | -0.58                     | 0.76                 | 3.0                       | 9                            | 15    | 5          | 8                            | w.        | State Sanatorium.            |
| Hanover            | York         | 600             | 27                      | 39.6                         | +7.9                      | 79      | 25   | 2      | 16   | 32                       | 2.39  | -0.35                     | 0.52                 | 3.0                       | 13                           | 12    | 3          | 13                           | s.        | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 61                      | 37.0                         | +6.8                      | 74      | 25   | 5      | 16   | 32                       | 2.75  | -0.21                     | 0.96                 | 2.7                       | 9                            | 8     | 8          | 12                           | w.        | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 12                      | 30.4                         |                           | 69      | 25   | -11    | 17   | 39                       | 1.76  |                           | 0.50                 | 9.0                       | 9                            | 12    | 8          | 8                            | w.        | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 15                      | 36.5                         |                           | 78      | 26   | 3      | 16   | 39                       | 1.76  | -0.81                     | 0.58                 | 3.0                       | 7                            | 6     | 14         | 8                            |           | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 43                      | 36.2                         | +7.8                      | 72      | 25   | -3     | 16   | 38                       | 3.08  | +0.24                     | 1.49                 | 2.8                       | 11                           | 9     | 5          | 14                           | sw.       | Prof. H. A. Conner.          |
| Hyndman            | Bedford      | 977             | 18                      | 39.5                         | +9.4                      | 76      | 25   | 0      | 16   | 43                       | 1.59  | +1.15                     | 0.50                 | 3.1                       | 10                           | 9     | 4          | 15                           | .....     | Horace A. Sheavly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | 32.6                         |                           | 65      | 21   | -10    | 16   | 33                       |       |                           |                      | 3.1                       | .....                        | 10    | 3          | 15                           | w.        | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 43                      | 35.0                         | +5.2                      | 78      | 25   | -6     | 17   | 50                       | 2.69  | +0.01                     | 0.65                 | 5.0                       | 8                            | 16    | 5          | 7                            | s.        | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 28.6                         | +5.6                      | 60      | 20†  | -11    | 16   | 34                       | 0.95  | -0.88                     | 0.60                 | 7.5                       | 7                            | 10    | 2          | 16                           | .....     | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 90                      | 36.8                         | +8.1                      | 77      | 25   | 2      | 16   | 37                       | 2.96  | -0.51                     | 1.11                 | 2.2                       | 11                           | 10    | 9          | 9                            | se.       | Prof. W. G. Owens.           |
| Lewisburg          | Union        | 450             | 56                      | 34.4                         | +8.6                      | 73      | 21   | 1      | 16   | 41                       | 2.79  | 0.00                      | 0.95                 | 3.9                       | 11                           | 8     | 6          | 14                           | w.        | Joseph Beaver.               |
| Lock Haven         | Clinton      | 560             | 42                      | 36.0                         | +8.9                      | 70      | 21   | -2     | 16   | 38                       | 2.13  | -0.72                     | 0.63                 | 5.0                       | 11                           | 6     | 9          | 13                           | sw.       | Susquehanna Collieries Co.   |
| Lykens             | Dauphin      | 680             | 16                      | 35.6                         | +5.5                      | 75      | 25   | -3     | 16   | 45                       | 2.85  | +0.41                     | 0.92                 | 3.0                       | 12                           | 12    | 8          | 8                            | nw.       | R. K. Wintermute.            |
| Mauch Chunk        | Carbon       | 600             | 41                      | 32.4                         | +5.4                      | 76      | 25   | -4     | 17   | 43                       | 2.36  | -1.51                     | 0.67                 | 7.2                       | 11                           | 14    | 4          | 10                           | s.        | Wellington Smith.            |
| Midlinton          | Juniata      | 445             | 27                      | 34.8                         | +8.1                      | 71      | 25   | -1     | 17   | 34                       | 2.92  | +0.58                     | 1.13                 | 4.7                       | 10                           | 10    | 1          | 17                           | w.        | Silas Jagger.                |
| Montrose           | Susquehanna  | 1,720           | 28                      | 28.1                         | +7.8                      | 63      | 20†  | -12    | 17   | 35                       | 1.95  | -0.12                     | 0.75                 | 5.0                       | 7                            | 8     | 9          | 11                           | s.        | Cecil J. Hoskinson.          |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 26.6                         | +5.9                      | 70      | 25   | -9     | 16   | 29                       | 1.74  | -1.17                     | 0.63                 | 7.5                       | 9                            | 11    | 10         | 7                            | nw.       | H. O. Hacker.                |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 29.8                         | +4.1                      | 65      | 21   | -10    | 16   | 36                       | 2.15  | -0.22                     | 0.93                 | 3.5                       | 10                           | 12    | 5          | 11                           | nw.       | Charles Decker.              |
| Narberth           | Montgomery   | 300             | 11                      | 36.0                         |                           | 76      | 25   | 3      | 16   | 35                       | 3.62  |                           | 1.87                 | 2.4                       | 11                           | 14    | 5          | 9                            | sw.       | North Springfield Water Co.  |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 34.1                         | +5.0                      | 79      | 25   | -2     | 17   | 44                       | 3.83  |                           | 0.98                 | 1.0                       | 7                            | 17    | 2          | 9                            | w.        | New Jersey Zinc Co.          |
| Palmerton          | Carbon       | 398             | 14                      | 31.8                         |                           | 75      | 25   | -1     | 17   | 39                       | 1.52  |                           | 0.48                 | 4.5                       | 8                            | 1     | 8          | 19                           | n.        | U. S. Weather Bureau.        |
| Philadelphia       | Philadelphia | 114             | 59                      | 40.1                         | +6.2                      | 79      | 25   | 8      | 16   | 29                       | 3.65  | +0.33                     | 2.05                 | 1.5                       | 9                            | 9     | 8          | 11                           | sw.       | Julius Bernstein.            |
| Philadelphia-Gtn   | Philadelphia | 113             | 6                       | 39.4                         |                           | 79      | 25   | 8      | 16   | 29                       | 3.63  |                           | 2.01                 | 1.5                       | 9                            | 14    | 4          | 10                           | .....     | Commandant, Navy Yard.       |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 38.2                         | +4.9                      | 77      | 25   | 8      | 16   | 30                       | 3.74  | +0.52                     | 2.21                 | 2.0                       | 8                            | 10    | 9          | 9                            | sw.       | Atlantic Refining Co.        |
| Phila-Point Breeze | Philadelphia | 90              | 5                       | 39.5                         |                           | 79      | 25   | 9      | 16   | 30                       | 3.66  |                           | 1.96                 | 1.0                       | 8                            | 10    | 8          | 10                           | sw.       | North Springfield Water Co.  |
| Phoenixville       | Chester      | 100             | 20                      | 37.3                         | +5.5                      | 78      | 25   | -1     | 17   | 42                       | 3.18  | -0.03                     | 0.92                 | 1.7                       | 9                            | 13    | 13         | 2                            | sw.       | John E. Benner.              |
| Quakertown         | Bucks        | 496             | 46                      | 33.4                         | +5.2                      | 80      | 25   | -6     | 17   | 39                       | 2.42  | -1.34                     | 0.57                 | 3.2                       | 11                           | 12    | 6          | 10                           | nw.       | U. S. Weather Bureau.        |
| Reading            | Berks        | 325             | 61                      | 37.6                         | +8.8                      | 77      | 25   | 6      | 16   | 34                       | 2.60  | -0.82                     | 0.65                 | 2.5                       | 10                           | 8     | 8          | 12                           | w.        | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 36                      | 32.4                         | +5.1                      | 67      | 25   | 1      | 17   | 27                       | 1.87  | -1.17                     | 0.73                 | 4.3                       | 10                           | 5     | 11         | 12                           | sw.       | Dr. George E. Fisher.        |
| Selinsgrove        | Snyder       | 455             | 42                      | 35.2                         | +8.1                      | 71      | 20   | 2      | 16   | 39                       | 2.91  | -0.03                     | 1.56                 | 5.0                       | 8                            | 9     | 5          | 14                           | sw.       | W. S. Guiles.                |
| Shawmont           | Philadelphia | 51              | 35                      | 37.2                         |                           | 76      | 25   | 6      | 17   | 36                       | 3.25  | +0.07                     | 1.72                 | 0.8                       | 11                           | 9     | 11         | 8                            | w.        | C. A. Kern.                  |
| State College      | Center       | 1,217           | 46                      | 34.1                         | +8.6                      | 58      | 25   | -5     | 16   | 27                       | 2.68  | +0.11                     | 1.11                 | 5.3                       | 11                           | 5     | 12         | 11                           | w.        | State Normal School.         |
| Stroudsburg        | Monroe       | 500             | 16                      | 28.4                         | +1.2                      | 74      | 25   | -8     | 17   | 44                       | 1.60  | -1.39                     | 0.52                 | 3.8                       | 9                            | 10    | 7          | 11                           | nw.       | Hiram E. Bull, C. E.         |
| Towanda            | Bradford     | 754             | 36                      | 31.0                         | +7.4                      | 67      | 25   | -9     | 17   | 38                       | 1.40  | -0.51                     | 0.67                 | 4.3                       | 10                           | 5     | 6          | 17                           | s.        | George W. Hill.              |
| Wellsboro          | Tioga        | 1,419           | 66                      | 29.8                         | +5.2                      | 65      | 25   | -8     | 16†  | 35                       | 1.77  | -0.58                     | 0.70                 | 6.0                       | 13                           | 16    | 3          | 9                            | sw.       | Miss Veronica E. April.      |
| West Chester       | Chester      | 455             | 93                      | 37.6                         | +6.8                      | 78      | 25   | 3      | 16   | 39                       | 3.07  | -0.83                     | 1.25                 | 3.8                       | 9                            | 15    | 4          | 9                            | w.        | York Water Co.               |
| Williamsport       | Lycoming     | 521             | 44                      | 33.6                         | +7.0                      | 69      | 21   | 0      | 16   | 37                       | 1.59  | -0.97                     | 0.72                 | 2.5                       | 9                            | 11    | 4          | 13                           | w.        | U. S. Engineer.              |
| York               | York         | 400             | 43                      | 37.1                         | +7.5                      | 79      | 25   | 1      | 17   | 43                       | 2.27  | -0.76                     | 0.84                 | 3.0                       | 10                           | 11    | 10         | 7                            | e.        | Supt. Timber Pres. Plant.    |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                              |
| Beaver Dam         | Beaver       | 700             | 38                      | 37.9                         | +5.3                      | 68      | 22†  | 1      | 16   | 37                       | 3.92  | +1.61                     | 1.59                 | 1.8                       | 17                           | 6     | 6          | 16                           | sw.       | John Fawcett.                |
| Bradford           | McKean       | 1,460           | 15                      | 33.4                         | +7.5                      | 64      | 20†  | -8     | 16   | 36                       | 3.25  | +0.67                     | 1.20                 | 7.0                       | 12                           | 6     | 7          | 15                           | sw.       | William C. Faust.            |
| Brookville         | Jefferson    | 1,173           | 40                      | 30.8                         | +6.5                      | 69      | 22   | -18    | 16   | 44                       | 2.50  | +0.05                     | 0.85                 | 3.3                       | 12                           | 12    | 4          | 12                           | .....     | John E. Lewis.               |
| Butler             | Butler       | 1,152           | 9                       | 37.5                         |                           | 71      | 22†  | -7     | 16   | 44                       | 3.16  |                           | 1.27                 | .....                     | 7                            | 7     | 2          | 19                           | w.        | J. L. Melvin.                |
| Chambersville      | Indiana      | 1,047           | .....                   | 36.2                         |                           | 72      |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                              |



## Daily Precipitation for February, 1930

| Stations           | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |    |      |     |     |     |     |    |    |    |    |    |     |     |      |      |      |     |     |    |    | Total |        |
|--------------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|------|-----|-----|-----|-----|----|----|----|----|----|-----|-----|------|------|------|-----|-----|----|----|-------|--------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13   | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21 | 22 | 23  | 24  | 25   | 26   | 27   | 28  | 29  | 30 | 31 |       |        |
| Atlantic Drainage. |                |              |     |     |     |     |     |     |     |     |     |     |    |      |     |     |     |     |    |    |    |    |    |     |     |      |      |      |     |     |    |    |       |        |
| Allentown\|\|\| | Lehigh         |              |     |     | .64 |     |     | .10 |     |     |     | T.  |    |      | .09 | .39 |     | .14 |    |    |    |    |    |     | .09 | .11  | .44  | .36  |     |     |    |    |       | 2.36   |
| Altoona            | Juniata        |              |     | .41 | .18 | .09 |     |     |     |     | .33 |     |    |      | T.  |     | .15 |     |    |    |    |    |    | .15 | .07 | .20  | .68  | .10  |     |     |    |    |       | 2.36   |
| Ansonia\|\|\| | W. Br. Susq.   |              |     |     |     |     |     |     |     |     |     |     |    | .28  |     | .10 |     |     |    |    |    |    |    |     | .06 | .42  |      | .68  |     |     |    |    |       | 2.18   |
| Arendtsville\|\|\| | Lower Susq.    |              |     | .60 |     | .04 |     |     |     |     |     |     |    | .33  |     | .13 |     |     |    |    |    |    |    |     | .06 | .06  | 1.68 | .29  |     |     |    |    |       | 3.08   |
| Baker's Summit.    | Juniata        |              |     |     | .54 |     |     |     |     |     |     |     |    | .33  |     | .03 |     |     |    |    |    |    |    |     | .06 | .06  | 1.68 | .29  |     |     |    |    |       | 2.71   |
| Bellefonte***      | W. Br. Susq.   | T.           | T.  | T.  | .27 | .02 | .11 | .01 | T.  | .08 | .02 | T.  | T. | .05  |     | .02 |     |     | T. |    |    |    |    |     | .04 | .33  | .93  | .81  | .02 |     |    |    |       | 2.71   |
| Bethlehem          | Lehigh         |              |     | .03 | .58 | T.  | .10 |     |     |     | T.  |     |    | .32  | .08 | .10 | .06 |     |    |    |    |    |    |     | .01 | .06  | .11  | .54  | .17 |     |    |    |       | 2.16   |
| Blossville\|\| | Lower Susq.    |              |     | .52 |     |     | .07 |     |     |     |     |     |    | .28  | T.  | .22 |     |     |    |    |    |    |    |     | .05 | 1.00 |      | .50  |     | .05 |    |    |       | 2.34   |
| Carlisle           | Lower Susq.    |              |     | .24 | .41 | .08 | T.  |     |     | T.  |     |     |    | .28  | T.  | .22 |     |     |    |    |    |    |    |     | .05 | .02  | .92  | .50  | T.  |     |    |    |       | 2.72   |
| Catawissa          | N. Br. Susq.   |              |     | .44 |     | .20 |     |     |     |     |     |     |    | .50  |     | .15 |     |     |    |    |    |    |    |     | .02 | .03  | .27  | .47  |     |     |    |    |       | 2.08   |
| Center Hall        | Susquehanna    |              | .03 | .18 | .38 |     |     | .20 |     |     |     | .05 |    | .08  | .22 | .05 |     |     |    |    |    |    |    |     | .03 | .04  | .12  | 1.36 |     |     |    |    |       | 2.74   |
| Chambersburg       | Potomac        |              |     | .37 | .14 | .03 | .02 |     |     |     | T.  |     |    | .19  | .03 | .08 | .02 |     |    |    |    |    |    |     | .05 | .02  | .46  | .45  | T.  |     |    |    |       | 1.86   |
| Clearfield         | W. Br. Susq.   |              |     | .12 | T.  | .10 | T.  | T.  | T.  | .04 |     |     |    | T.   |     | T.  |     |     |    |    |    |    |    |     | .16 | .20  | .81  | 1.05 | T.  |     |    |    |       | 2.52   |
| Coatesville        | Lower Del.     |              |     | .42 | .34 | .03 | .02 |     |     |     |     |     |    | .92  | .12 | .25 | .08 |     |    |    |    |    |    |     | .07 |      | .40  | .36  |     |     |    |    |       | 3.01   |
| Colebrook          | Lower Susq.    | T.           |     | .68 | .08 | .05 | .01 |     |     |     | T.  |     |    | .41  | .07 | *   | .19 |     |    |    |    |    |    |     | .04 | .06  | .76  | .66  | .01 |     |    |    |       | 3.02   |
| Conshohocken       | Schuylkill     |              |     | .60 | .19 | T.  |     |     |     |     | T.  |     |    | 1.00 | .01 | .05 | T.  |     |    |    |    |    |    |     | .08 | .11  | .05  | .41  | .02 |     |    |    |       | 2.47   |
| Cresson            | Juniata        |              |     | .68 | .03 |     |     |     |     |     | .43 |     |    | 1.26 |     | .18 | .07 |     |    |    |    |    |    |     | .20 | 2.42 | .20  | .54  | .18 |     |    |    |       | 4.88   |
| Doriestown         | Lower Del.     |              |     | .24 |     | T.  |     |     |     |     |     |     |    | 1.26 |     | .18 | .07 |     |    |    |    |    |    |     | T.  | .03  | .35  | .49  | T.  |     |    |    |       | 2.62   |
| Driftwood\|\|\| | W. Br. Susq.   |              |     | .05 |     | .01 |     | .03 |     |     | .14 |     |    | T.   |     | T.  | .20 |     |    |    |    |    |    |     |     |      | .75  | .40  | .05 |     |    |    |       | 1.63   |
| Emporium           | do.            | T.           | T.  | .29 | .14 | T.  | T.  | T.  | .05 | .15 | T.  |     |    | .33  | T.  | T.  |     |     |    |    |    |    |    |     | .13 | .18  | .42  | .76  | T.  |     |    |    |       | 2.45   |
| Ephrata            | Lower Susq.    |              |     | .24 | .42 | T.  | .03 |     |     |     | T.  |     |    | .45  | .07 | .25 | T.  |     |    |    |    |    |    |     | T.  | .01  | .75  | .47  |     |     |    |    |       | 2.69   |
| Forest City        | N. Br. Susq.   |              |     | .33 |     |     |     |     |     |     | T.  | T.  | T. | .16  | T.  |     | .46 |     |    |    |    |    |    |     | .03 | .14  | .65  | .02  |     |     |    |    |       | 1.79   |
| Freeland\|\|\| | Lehigh         | T.           | T.  | .02 |     | .51 | .05 | .06 |     | T.  |     | .02 |    | .05  | .51 |     | .22 |     |    |    |    |    |    |     | .06 | .04  | .35  | .27  | T.  |     |    |    |       | 2.16   |
| George School      | Lower Del.     |              |     | .17 | .55 |     |     |     |     |     | T.  |     |    | 1.48 | .20 | .06 | .09 |     |    |    |    |    |    |     |     |      | .29  | .36  | .16 |     |    |    |       | 3.36   |
| Gettysburg         | Potomac        |              |     | .33 | .41 | .02 | .02 |     |     |     |     |     |    | .32  | .03 | .16 | T.  |     |    |    |    |    |    |     | .07 | .02  | .17  | .71  | T.  |     |    |    |       | 2.26   |
| Girardville        | Lower Susq.    | T.           | T.  | .48 | .01 | .14 |     |     |     |     | .01 |     |    | .52  |     | .23 |     |     |    |    |    |    |    |     | .11 | .15  | 1.11 |      |     |     |    |    |       | 2.76   |
| Gordon             | Lower Susq.    |              |     | .10 |     | .20 |     |     |     |     | .10 |     |    | .25  | .22 |     |     |     |    |    |    |    |    |     | T.  | .16  |      | 1.48 |     |     |    |    |       | 2.51   |
| Gouldsboro\|\| | Lehigh         |              |     |     | .36 |     |     |     |     |     | .04 |     |    | .25  | .35 | .19 |     | .15 |    |    |    |    |    |     |     | .23  | .58  |      | .26 | .05 |    |    |       | 2.46   |
| Graterford         | Schuylkill     |              |     | \$  | \$  |     |     |     |     |     |     |     |    | 1.69 |     | .21 | .28 |     |    |    |    |    |    |     | .07 | .12  | .83  | .42  | .03 |     |    |    |       | \$3.65 |
| Hamburg            | Schuylkill     |              |     | .18 | .51 | .10 | .06 |     |     |     | T.  |     |    | .62  |     | .10 |     |     |    |    |    |    |    |     | .30 |      | .18  | .76  |     |     |    |    |       | 2.81   |
| Hanover            | Lower Susq.    |              |     | .30 | .52 | .03 | .04 |     |     |     |     |     |    | .41  | .21 | .13 | .06 |     |    |    |    |    |    |     | T.  | .04  | .12  | .50  | .02 | .01 |    |    |       | 2.39   |
| Harrisburg***      | do.            |              |     | .60 | .02 | .08 | T.  |     |     |     | T.  |     |    | .39  |     | .14 |     |     |    |    |    |    |    |     | .04 | .58  | .38  | .52  | T.  |     |    |    |       | 2.75   |
| Hawley\|\|\| | Upper Del.     | T.           |     | .50 |     | .04 |     | .04 |     |     |     | T.  |    | .01  | .25 |     | .16 |     |    |    |    |    |    |     | .09 | .03  | .23  | .45  |     |     |    |    |       | 1.76   |
| Hollisterville     | Upper Del.     | T.           |     | .43 | T.  | .04 |     |     |     |     | T.  | .03 |    | .04  | .24 | T.  | .16 |     |    |    |    |    |    |     | .03 | .02  | .22  | .47  |     |     |    |    |       | 1.68   |
| Holtwood\|\| | Lower Susq.    |              |     | .58 | T.  | T.  |     |     |     |     |     |     |    | .07  | .48 |     | .26 |     |    |    |    |    |    |     | .03 | T.   | .09  | .25  |     |     |    |    |       | 1.76   |
| Huntingdon         | Juniata        |              | T.  | .25 | .24 | .02 |     |     |     |     | .09 |     |    | .05  |     | .08 |     |     |    |    |    |    |    |     | .05 | .10  | 1.49 | .68  | .03 |     |    |    |       | 3.08   |
| Hyndman            | Potomac        | T.           |     | .50 | .28 | .04 | T.  |     |     |     | .13 |     |    | .03  |     | .12 |     |     |    |    |    |    |    |     | .04 | .21  | .09  | .15  | T.  |     |    |    |       | 1.59   |
| Kylertown          | W. Br. Susq.   |              |     | .20 |     | .05 |     |     |     | T.  | .04 |     |    | T.   | .27 | .02 | .14 |     |    |    |    |    |    |     | .15 | \$   | \$   | \$   |     |     |    |    |       | \$     |
| Lakeville\|\|\| | Upper Del.     |              |     | .45 |     | .04 |     |     |     |     | T.  |     |    | T.   | .27 | .02 | .14 |     |    |    |    |    |    |     | .10 | .03  | .10  | .45  |     |     |    |    |       | 1.58   |
| Lancaster          | Lower Susq.    |              |     | .07 | .65 |     | .10 |     |     |     |     |     |    | .50  | .10 | .30 |     |     |    |    |    |    |    |     |     |      | .55  | .42  |     |     |    |    |       | 2.69   |
| Lansford\|\|\| | Lehigh         |              |     | .45 | T.  | .09 |     |     |     |     | T.  |     |    | .08  | .27 | .15 |     |     |    |    |    |    |    |     | .07 | .07  | .39  | .22  |     |     |    |    |       | 1.79   |
| Lawrenceville      | N. Br. Susq.   |              |     | T.  | T.  | T.  | .10 | .10 | T.  |     | .05 |     |    | .08  | .05 | .05 |     |     |    |    |    |    |    |     | T.  |      | .50  | .10  |     |     |    |    |       | 0.95   |
| Lebanon            | Lower Susq.    | T.           |     | .21 | .50 | .02 | .04 |     |     |     | T.  |     |    | .33  | .13 | .05 | .03 |     |    |    |    |    |    |     | .01 | T.   | 1.11 | .53  |     |     |    |    |       | 2.96   |
| Lewisburg          | W. Br. Susq.   |              |     | .30 | .08 | .02 | .27 |     | .02 |     |     |     |    | .24  | .05 |     |     |     |    |    |    |    |    |     | .03 | .03  | .35  | .95  |     |     |    |    |       | 2.79   |
| Lloyd              | do.            |              |     |     | T.  | .06 | .04 |     |     |     |     |     |    |      | .02 | .09 |     |     |    |    |    |    |    |     | .08 | .06  | .60  |      |     |     |    |    |       | 0.93   |
| Lock Haven         | do.            |              |     | .20 | .10 |     | .11 |     |     |     | .15 |     |    |      | .02 | .04 |     |     |    |    |    |    |    |     | .11 | .09  | .51  | .63  | .17 |     |    |    |       | 2.13   |
| Lykens             | Susquehanna    | T.           |     | .18 | .35 | .03 | .04 | T.  |     |     | T.  |     |    | .29  | .24 | .09 | .03 |     |    |    |    |    |    |     | .04 | .07  | .57  | .92  | T.  |     |    |    |       | 2.85   |
| Mauch Chunk        | Lehigh         |              |     | .40 | .05 | .05 | .17 |     |     |     |     |     |    | .39  | .11 | .18 | .13 |     |    |    |    |    |    |     | .09 |      | .12  | .67  |     |     |    |    |       | 2.36   |
| Mifflintown        | Juniata        |              |     | .21 | .21 | .02 |     |     |     |     |     |     |    | .10  | .02 | .11 |     |     |    |    |    |    |    |     | .04 | .05  | 1.03 | 1.13 | T.  |     |    |    |       | 2.92   |
| Montrose           | N. Br. Susq.   |              |     | T.  | .10 | T.  | .10 |     |     |     | T.  | T.  |    |      | .15 | .10 |     |     |    |    |    |    |    |     | .15 |      | .75  | .60  |     |     |    |    |       | 1.95   |
| Morris Run         | N. Br. Susq.   |              | .03 | .06 | .12 | .06 | .05 |     |     |     | .25 |     |    | .07  | .13 | .09 |     |     |    |    |    |    |    |     | .06 |      | .51  | .71  |     |     |    |    |       | 2.14   |
| Mount Pocono       | Upper Del.     |              |     | .06 | .12 |     |     | .26 |     |     |     |     |    | .63  | .03 | .30 | .09 |     |    |    |    |    |    |     | .09 |      |      | .16  |     |     |    |    |       | 1.74   |
| Muncy Valley       | W. Br. Susq.   |              | T.  | .17 | .20 | T.  | .08 | T.  | T.  | T.  |     |     |    | .08  | .17 | .08 |     |     |    |    |    |    |    |     |     |      |      |      |     |     |    |    |       |        |



## Daily Precipitation for February, 1930—Continued from page 8

| Stations           | Drainage Basin    | Day of month |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |    |    |    |    |     |      |      |      |      |     |     |    |      | Total |      |
|--------------------|-------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|------|------|------|------|-----|-----|----|------|-------|------|
|                    |                   | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11   | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20 | 21 | 22 | 23  | 24   | 25   | 26   | 27   | 28  | 29  | 30 | 31   |       |      |
| Ohio Drainage.     |                   |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |    |    |    |    |     |      |      |      |      |     |     |    |      |       |      |
| Beaver Dam\|\|\| | Ohio.....         | T.           | .01 | .02 |     | .07 | .02 | .09 | .01 | T.  | .25 | .03  |     | .28 | .02 | .01 | .04 |     |     |    |    |    |    | .01 | .09  | 1.59 | 1.29 | .09  | T.  |     |    |      | 3.92  |      |
| Beaver Falls\|\|\| | Beaver.....       | T.           | T.  | .02 |     | .06 | .01 | .02 | T.  | T.  | .21 | .03  |     | .31 | .01 | .01 | .02 |     |     |    |    |    |    |     | .08  | 1.15 | 1.40 | .25  | .01 |     |    |      | 3.59  |      |
| Bradford.....      | Allegheny.....    | .05          |     |     |     | .10 | .05 | T.  | .05 | .10 | .40 |      | .60 | .05 | T.  | T.  |     |     |     |    |    |    |    | .12 | .05  | 1.20 | .48  | T.   |     |     |    | 3.25 |       |      |
| Brookville.....    | do.....           | .09          | .05 | T.  | .13 | .06 | .08 | T.  | T.  | .30 | .07 |      | .07 | T.  |     | .06 |     |     |     |    |    |    |    | .20 | .85  |      | .54  | T.   |     |     |    | 2.50 |       |      |
| Butler.....        | Ohio.....         |              | .05 | .10 | T.  |     |     |     |     | .19 |     |      |     | .29 |     | T.  |     |     |     |    |    |    |    | .13 | 1.27 |      | 1.13 |      |     |     |    | 3.16 |       |      |
| Chambersville..... | Allegheny.....    |              | .03 | .06 | .37 | T.  | .05 |     | T.  |     | .33 |      | .01 | .07 | .02 | .04 |     |     |     |    |    |    |    | .15 | 1.01 | 1.72 | .99  | .04  |     |     |    | 3.98 |       |      |
| Claysville.....    | Ohio.....         | .05          |     | .36 | .08 |     |     |     | .01 | T.  | .22 |      |     | .17 |     | .02 |     |     |     |    |    |    |    | .12 | .15  | .25  | 1.22 | .02  |     |     |    | 2.67 |       |      |
| Cloet\|\| | Allegheny.....    | .02          | .03 | .32 | .05 | .04 |     |     | .33 | T.  |     |      |     | .04 |     | .04 |     |     |     |    |    |    |    | .11 | .47  | 1.17 | .57  |      |     |     |    | 3.19 |       |      |
| Clymer\|\| | Conemaugh.....    | .05          | .03 | .14 | .21 | .05 | T.  | T.  | .06 | .34 |     |      |     | .07 | .05 | .03 |     |     |     |    |    |    |    | .16 | .17  | 1.44 | .89  | .05  | .05 |     |    | 3.79 |       |      |
| Confluence\|\|\| | Youghiogheny..... | .04          |     |     | .75 | T.  | .05 |     | .03 | .32 | .04 |      |     | .06 | .13 |     | .19 | T.  |     |    |    |    |    | T.  | .20  | .25  | .42  | .30  |     |     |    | 2.78 |       |      |
| Coraopolis\|\|\| | Ohio.....         | .01          | .05 | .01 | .32 | .03 | .03 |     | .03 | .26 | .02 |      |     | .10 | .03 | T.  | .05 |     |     |    |    |    |    | T.  | .10  | 2.73 | .85  | .18  | T.  |     |    |      | 4.77  |      |
| Corry.....         | Allegheny.....    | .06          | .01 | .12 | .07 | .10 |     | .01 | .01 | .20 | .30 |      | .57 |     |     | .35 |     |     |     |    |    |    |    | .18 | .74  | .26  | .70  | .06  |     |     |    | 3.74 |       |      |
| Coudersport.....   | Allegheny.....    | T.           | .05 |     | .08 | .01 | .02 |     | .04 | .17 | .04 |      |     | T.  | T.  | .02 |     |     |     |    |    |    |    | .10 | .65  | .49  | .28  |      |     |     |    | 1.95 |       |      |
| Derry.....         | Conemaugh.....    | T.           | .04 | .05 | .31 | .12 | .05 |     | T.  |     | .17 |      |     | .15 |     | .09 |     |     |     |    |    |    |    | .16 | .23  | 1.62 | .64  | .05  |     |     |    | 3.68 |       |      |
| Donora\|\|\| | Monongahela.....  | .10          |     | .17 | .25 |     |     | T.  |     | .15 |     |      |     | .05 | .05 |     | .01 |     |     |    |    |    |    |     | .15  | .25  | .60  | .05  |     |     |    | 1.83 |       |      |
| Ebensburg.....     | Conemaugh.....    |              | .15 | .03 | .04 | T.  |     |     |     | .15 |     |      |     | T.  | .30 |     |     |     |     |    |    |    |    | .10 | .11  | 1.30 | .70  | .20  |     |     |    | 3.08 |       |      |
| Elk Lick.....      | Youghiogheny..... |              |     |     | .50 |     |     | .20 |     | .10 |     | .35  | .30 |     | .40 |     |     |     |     |    |    |    |    | .20 | .30  |      | .70  | .10  |     |     |    | 3.07 |       |      |
| Falls Creek.....   | Allegheny.....    | .04          | .07 | .20 | T.  | .16 |     | T.  | T.  | T.  | .35 |      |     | .04 |     | .06 |     |     |     |    |    |    |    | .15 | .18  | .75  | 1.02 | .05  |     |     |    | 3.15 |       |      |
| Franklin\|\|\| | Allegheny.....    | .04          | .05 |     | .05 | .05 |     | .05 |     | .35 | .06 |      |     | .33 | T.  | T.  | .02 | T.  |     |    |    |    |    |     | .17  | .48  | .46  | .30  |     |     |    | 2.36 |       |      |
| Freeport\|\|\| | do.....           | .03          | .04 | .03 | T.  | .32 | .01 | .03 |     | T.  | .35 | .01  |     | .03 | .05 | T.  | .03 |     |     |    |    |    |    |     | .14  | 1.59 | 1.05 | .23  | .01 |     |    |      | 2.95  |      |
| Greensboro.....    | Monongahela.....  | T.           | .03 | .02 | T.  | .72 | .02 | .02 |     | .02 | .16 |      |     | .02 | .22 |     | .15 |     |     |    |    |    |    | T.  | .09  | .31  | .71  | .20  | T.  |     |    | 2.69 |       |      |
| Greensburg.....    | Youghiogheny..... | .02          |     | .40 | .01 | .10 | T.  | .02 | .02 | .12 |     |      |     | .02 | .22 |     | .06 |     |     |    |    |    |    | .13 | .20  | 1.27 | .76  | T.   |     |     |    | 3.13 |       |      |
| Greenville.....    | Beaver.....       | .02          | T.  | T.  | .06 | .06 | T.  | .02 | .23 | .03 | T.  |      | .04 | .26 |     | .03 |     |     |     |    |    |    |    | .23 | .15  | .31  | .47  | .13  |     |     |    | 2.04 |       |      |
| Grove City.....    | do.....           | .06          | T.  | .08 | T.  | .05 | .12 |     | .04 | .03 | .16 | .05  |     | .37 | T.  | .08 | T.  | T.  |     |    |    |    |    | .27 | .22  | .35  | .33  | .03  | T.  |     |    | 2.24 |       |      |
| Herr's Isl. Dam\|\|\| | Ohio.....         | .03          | T.  |     | .35 | .03 | .02 | T.  |     | .23 | .02 |      |     | T.  | .03 |     | .02 | T.  |     |    |    |    |    | T.  | .05  | 2.40 | .56  | .24  | T.  |     |    |      | 3.98  |      |
| Ingram.....        | do.....           | .04          | .02 | .36 | .02 | .02 | T.  | T.  | .05 | .25 | T.  |      |     | .05 |     | .01 |     | T.  |     |    |    |    |    | .10 | .41  | 1.33 | .80  | T.   |     |     |    | 3.46 |       |      |
| Irwin.....         | Youghiogheny..... |              | .05 | .32 | T.  | .01 | .05 | T.  | .02 | .09 |     |      |     | .10 | .05 | .04 |     |     |     |    |    |    |    | .16 | .45  | .69  | .66  | .01  | T.  |     |    | 2.70 |       |      |
| Johnstown.....     | Conemaugh.....    | .05          | .05 | .56 | .05 | .05 | .03 | .04 | .05 | .36 |     |      |     | .10 |     | .20 |     |     |     |    |    |    |    | .18 | .40  | 1.50 | .48  | .11  |     |     |    | 4.21 |       |      |
| Kregar\|\|\| | Youghiogheny..... | .06          | .05 | .43 | .03 | T.  | .07 | .04 | .36 | .05 |     | .03  | .24 |     | .16 |     |     |     |     |    |    |    |    | .20 | .68  | .31  | .28  | .04  |     |     |    | 3.03 |       |      |
| Lock No. 4\|\|\| | Monongahela.....  | .03          |     | .04 | T.  | .30 | .04 | .04 |     | .38 | .03 |      |     | .05 | .06 | T.  | .04 |     |     |    |    |    |    |     | .15  | 1.72 | .83  | .25  | .02 |     |    |      | 3.98  |      |
| Lycippus.....      | Conemaugh.....    |              | .04 | .05 | .60 | .10 |     |     | T.  | T.  | T.  |      | .13 | .07 |     | .05 |     |     |     |    |    |    |    | .37 | .27  | .76  | .71  |      |     |     |    | 3.06 |       |      |
| Meadville.....     | Allegheny.....    | .04          | .04 | .05 | T.  |     | .04 | .02 | .02 | .05 | .27 | .04  |     | .28 |     | T.  |     |     |     |    |    |    |    | .25 | .19  | .39  | 1.08 | .03  |     |     |    | 2.79 |       |      |
| Mount Lebanon..... | Ohio.....         |              | .34 | .01 | .02 |     | .02 | T.  | .28 |     |     |      | .03 |     | .01 |     | .01 |     |     |    |    |    |    | .09 | .22  | .59  | .98  | T.   |     |     |    | 2.61 |       |      |
| New Castle\|\|\| | Beaver.....       | .01          | .03 | .05 |     | .01 | .11 | .05 | .02 | .20 | .19 | .01  | .01 | .27 | .03 | .05 | .13 | .01 | .01 |    |    |    |    | .15 | .14  | .97  | .80  | .17  | .02 |     |    | 3.44 |       |      |
| Newell.....        | Monongahela.....  |              |     | .49 |     |     |     | .01 |     | .01 |     |      |     | .01 | .01 | .01 | .01 |     |     |    |    |    |    | .04 | .15  | .27  | .46  |      |     |     |    | 1.46 |       |      |
| Parkers Landing\|\|\| | Allegheny.....    | .10          | .15 | .10 |     | .05 | .10 | .05 |     | T.  | .40 | .20  | T.  | .30 | T.  | T.  | .10 |     |     |    |    |    |    |     | .15  | .68  | .80  | .35  | .10 |     |    |      | 3.63  |      |
| Pennline\|\|\| | Beaver.....       | .05          | .02 | .07 |     | .03 | .07 |     | .03 | .18 | .02 |      | .37 |     |     | .11 | .12 |     |     |    |    |    |    |     |      | .51  | .52  | .02  |     |     |    |      | 2.12  |      |
| Pittsburgh***      | Ohio.....         | T.           | .02 | .01 | .32 | .01 | .02 | T.  | T.  | .24 | T.  |      | .02 | T.  | .01 | T.  | T.  |     |     |    |    |    |    | .06 | 1.72 | .19  | .50  | T.   |     |     |    | 3.12 |       |      |
| Ridgway.....       | Allegheny.....    | .03          | .05 | .10 |     | .03 | .12 | .06 |     | .21 | .25 |      |     | .05 | .04 |     |     |     |     |    |    |    |    |     | .13  | .51  | .85  | .23  | T.  |     |    |      | 2.66  |      |
| Saltsburg\|\|\| | Conemaugh.....    | .04          | .05 | .02 |     | .35 | .05 | .07 |     | .02 | .31 | .06  |     | .02 | .14 |     | .06 |     |     |    |    |    |    |     | .13  | 2.09 | .43  | .56  | .02 |     |    |      | 4.42  |      |
| Sharon\|\|\| | Beaver.....       | T.           | .03 |     | .08 |     |     |     |     | .26 |     |      |     | .16 | T.  |     |     |     |     |    |    |    |    |     | .03  | .85  | .26  | .07  | T.  |     |    |      | 1.74  |      |
| Somerset.....      | Youghiogheny..... | T.           |     | .30 | .20 | .06 |     | .02 |     | .28 |     |      | .11 |     | .17 |     |     |     |     |    |    |    |    | .15 | .21  | .33  | .42  | .03  | .03 |     |    |      | 2.31  |      |
| Springdale\|\|\| | Allegheny.....    | T.           | .05 | .02 |     | .25 | .08 | .04 |     | T.  | .30 | .03  |     | .01 | .05 |     | .01 |     |     |    |    |    |    |     |      | .14  | 1.55 | .74  | .27 | .02 |    |      |       | 3.56 |
| Uniontown.....     | Monongahela.....  | .02          |     | .60 | .06 | .05 | .03 | .03 | T.  | .02 | .48 | T.   |     | .28 |     | .10 | .06 |     |     |    |    |    |    | .10 | .21  | .10  | .78  | .04  |     |     |    | 2.80 |       |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              | T.  | .39 | .10 | .08 | T.  | .05 | T.  | .28 |     |      | .18 | .06 | .10 |     |     |     |     |    |    |    |    | .12 | .18  | 1.24 | .73  |      |     |     |    | 3.51 |       |      |
| Vandergrift\|\| | Conemaugh.....    | .03          |     | .28 | .01 | .02 |     |     |     | .50 |     |      |     | .05 |     |     |     |     |     |    |    |    |    |     | .10  | 1.40 | .80  | .40  | .20 |     |    |      | 3.89  |      |
| Warren.....        | Allegheny.....    | .12          |     |     | .04 | .04 | .03 |     | .02 | .40 | .02 |      | .12 |     | .04 |     |     |     |     |    |    |    |    |     | .08  | 1.15 | .58  | .30  | .10 | .11 |    |      | 2.15  |      |
| Westford\|\|\| | Beaver.....       |              |     |     | .08 |     |     |     |     | .07 |     | 1.10 |     |     |     | T.  |     |     |     |    |    |    |    |     | .28  | .48  |      | .27  | .09 |     |    |      | 2.37  |      |
| West Newton\|\|\| | Youghiogheny..... | T.           | .03 |     | .35 | T.  |     |     | T.  | .26 |     |      |     |     | .11 |     | .05 |     |     |    |    |    |    |     | .10  | .39  | .51  | .23  |     |     |    |      | 2.03  |      |
| Zellenople\|\|\| | Ohio.....         |              |     | .10 | .05 | .05 |     |     | .05 | .19 |     |      |     | .44 |     | .10 |     |     |     |    |    |    |    |     | .18  | .50  | .72  | 1.30 | .08 |     |    |      | 3.76  |      |
| Lake Drainage.     |                   |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |    |    |    |    |     |      |      |      |      |     |     |    |      |       |      |
| Erie***            | Lake Erie.....    | T.           | .03 | T.  | T.  | .12 | T.  | .04 | T.  | .08 | T.  | T.   | .31 | T.  | T.  | .05 |     |     |     |    |    |    |    |     | .06  | .14  | .49  | .17  | .04 |     |    |      | 1.58  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

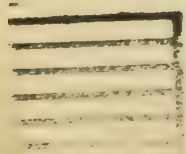
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. || Post Office addresses are as follows: of Blosserville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah. ‡ Mdt. to mdt.



Daily Temperatures for February, 1930

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8     | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18  | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29    | 30    | 31    | Mean |
|--------------------|---------|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|------|
| Allentown.....     | Maximum | 33 | 40 | 43 | 37 | 35 | 28 | 30    | 33 | 38 | 37 | 32 | 42 | 43 | 39 | 31 | 12 | 26  | 40 | 57 | 68 | 67 | 59 | 53 | 63 | 74 | 47 | 36 | 42    | ..... | ..... | 42.3 |
| .....              | Minimum | 16 | 18 | 27 | 25 | 25 | 12 | 11    | 15 | 18 | 18 | 17 | 19 | 26 | 26 | 4  | 3  | 9   | 26 | 33 | 37 | 34 | 33 | 38 | 38 | 41 | 27 | 23 | ..... | ..... | 22.8  |      |
| Altoona.....       | Maximum | 35 | 40 | 42 | 40 | 34 | 29 | 36    | 36 | 35 | 36 | 35 | 44 | 44 | 36 | 31 | 17 | 28  | 54 | 60 | 69 | 65 | 61 | 53 | 56 | 67 | 64 | 51 | 40    | ..... | 44.2  |      |
| .....              | Minimum | 19 | 25 | 34 | 30 | 29 | 12 | 15    | 18 | 9  | 22 | 17 | 17 | 34 | 21 | 17 | -7 | 2   | 21 | 37 | 50 | 50 | 35 | 37 | 41 | 50 | 50 | 30 | 23    | ..... | 26.4  |      |
| Beaver Dam.....    | Maximum | 37 | 43 | 43 | 42 | 42 | 33 | 34    | 31 | 44 | 44 | 38 | 61 | 59 | 35 | 35 | 23 | 41  | 55 | 66 | 66 | 67 | 68 | 57 | 63 | 62 | 44 | 40 | ..... | 47.9  |       |      |
| .....              | Minimum | 18 | 32 | 36 | 30 | 27 | 21 | 29    | 23 | 16 | 24 | 17 | 24 | 33 | 26 | 15 | 1  | 17  | 30 | 29 | 45 | 30 | 31 | 38 | 40 | 46 | 43 | 32 | 27    | ..... | 27.9  |      |
| Bellefonte.....    | Maximum | 35 | 40 | 38 | 40 | 33 | 26 | 27    | 32 | 36 | 33 | 33 | 43 | 44 | 36 | 26 | 17 | 29  | 42 | 56 | 65 | 66 | 60 | 51 | 59 | 67 | 58 | 38 | 42    | ..... | 41.9  |      |
| .....              | Minimum | 19 | 21 | 31 | 26 | 24 | 11 | 14    | 18 | 2  | 19 | 16 | 11 | 29 | 23 | 0  | -5 | -2  | 22 | 26 | 34 | 33 | 29 | 40 | 32 | 47 | 33 | 27 | 19    | ..... | 21.4  |      |
| Brookville.....    | Maximum | 33 | 39 | 36 | 42 | 33 | 25 | 31    | 33 | 38 | 35 | 35 | 53 | 40 | 55 | 26 | 18 | 25  | 50 | 62 | 66 | 67 | 69 | 49 | 55 | 64 | 52 | 33 | 39    | ..... | 43.0  |      |
| .....              | Minimum | 5  | 33 | 29 | 28 | 16 | 13 | 19    | 5  | 9  | 19 | 14 | 11 | 23 | 14 | 15 | 18 | 5   | 25 | 24 | 27 | 26 | 25 | 30 | 36 | 49 | 30 | 24 | 18    | ..... | 18.7  |      |
| Butler.....        | Maximum | 40 | 38 | 41 | 43 | 39 | 30 | 36    | 36 | 44 | 42 | 36 | 63 | 60 | 36 | 35 | 20 | 37  | 50 | 63 | 68 | 66 | 71 | 71 | 56 | 65 | 49 | 40 | ..... | 47.9  |       |      |
| .....              | Minimum | 18 | 31 | 33 | 30 | 25 | 18 | 28    | 21 | 12 | 25 | 19 | 20 | 35 | 23 | 17 | -7 | 10  | 32 | 35 | 46 | 29 | 27 | 39 | 39 | 52 | 49 | 30 | 24    | ..... | 27.1  |      |
| Carlisle.....      | Maximum | 30 | 42 | 44 | 43 | 36 | 35 | 32    | 36 | 37 | 37 | 35 | 44 | 43 | 41 | 40 | 27 | 30  | 43 | 65 | 73 | 72 | 67 | 58 | 64 | 76 | 75 | 45 | 44    | ..... | 46.9  |      |
| .....              | Minimum | 5  | 12 | 31 | 22 | 33 | 15 | 20    | 10 | 32 | 20 | 17 | 31 | 25 | 22 | 0  | 3  | 25  | 25 | 31 | 36 | 32 | 35 | 37 | 51 | 41 | 33 | 23 | ..... | 24.4  |       |      |
| Catawissa.....     | Maximum | 35 | 42 | 43 | 40 | 34 | 15 | 29    | 34 | 39 | 38 | 35 | 43 | 44 | 41 | 31 | 20 | 30  | 44 | 62 | 71 | 70 | 64 | 55 | 65 | 71 | 69 | 41 | 43    | ..... | 44.6  |      |
| .....              | Minimum | 12 | 20 | 34 | 26 | 29 | 9  | 13    | 19 | 12 | 29 | 18 | 13 | 31 | 22 | 22 | -2 | -2  | 20 | 25 | 27 | 31 | 30 | 33 | 40 | 46 | 36 | 24 | 16    | ..... | 22.6  |      |
| Chambersburg.....  | Maximum | 35 | 45 | 46 | 39 | 37 | 34 | 32    | 37 | 38 | 40 | 40 | 48 | 44 | 44 | 37 | 27 | 31  | 48 | 63 | 73 | 73 | 63 | 54 | 62 | 76 | 72 | 51 | 42    | ..... | 47.5  |      |
| .....              | Minimum | 6  | 18 | 32 | 25 | 32 | 18 | 16    | 22 | 18 | 31 | 19 | 20 | 35 | 27 | 27 | 2  | 10  | 24 | 28 | 34 | 33 | 33 | 35 | 38 | 49 | 43 | 30 | 30    | ..... | 26.2  |      |
| Claysville.....    | Maximum | 27 | 43 | 43 | 40 | 42 | 34 | 33    | 38 | 49 | 47 | 43 | 64 | 58 | 39 | 34 | 25 | 43  | 59 | 67 | 71 | 70 | 78 | 67 | 60 | 69 | 67 | 44 | 43    | ..... | 50.1  |      |
| .....              | Minimum | 21 | 32 | 36 | 35 | 27 | 24 | 23    | 29 | 16 | 26 | 12 | 26 | 31 | 21 | 15 | -2 | 14  | 32 | 37 | 46 | 32 | 32 | 42 | 49 | 58 | 43 | 31 | 26    | ..... | 29.1  |      |
| Clearfield.....    | Maximum | 32 | 34 | 39 | 42 | 35 | 33 | 32    | 35 | 36 | 35 | 38 | 51 | 45 | 40 | 32 | 22 | 34  | 56 | 65 | 68 | 70 | 66 | 60 | 53 | 66 | 65 | 41 | 43    | ..... | 45.3  |      |
| .....              | Minimum | 15 | 20 | 33 | 28 | 25 | 15 | 18    | 7  | 21 | 17 | 13 | 32 | 22 | 14 | -6 | -1 | 23  | 24 | 32 | 30 | 28 | 28 | 35 | 46 | 34 | 25 | 32 | ..... | 22.4  |       |      |
| Coatesville.....   | Maximum | 37 | 43 | 48 | 44 | 38 | 35 | 33    | 34 | 40 | 40 | 32 | 44 | 46 | 42 | 35 | 29 | 27  | 43 | 62 | 71 | 70 | 60 | 57 | 62 | 77 | 70 | 45 | 43    | ..... | 46.7  |      |
| .....              | Minimum | 9  | 25 | 35 | 25 | 31 | 14 | 17    | 21 | 15 | 25 | 17 | 14 | 30 | 25 | 25 | 1  | -3  | 18 | 27 | 31 | 37 | 46 | 41 | 40 | 50 | 34 | 28 | ..... | 25.0  |       |      |
| Corry.....         | Maximum | 30 | 37 | 37 | 41 | 37 | 28 | 31    | 29 | 36 | 35 | 32 | 48 | 44 | 31 | 25 | 19 | 36  | 48 | 60 | 64 | 66 | 68 | 65 | 53 | 61 | 54 | 30 | 34    | ..... | 42.1  |      |
| .....              | Minimum | 16 | 26 | 32 | 31 | 20 | 17 | 20    | 17 | 10 | 15 | 13 | 22 | 26 | 18 | 7  | -4 | 4   | 31 | 37 | 45 | 30 | 31 | 45 | 31 | 49 | 24 | 19 | 20    | ..... | 23.3  |      |
| Emporium.....      | Maximum | 31 | 38 | 38 | 44 | 37 | 27 | 28    | 28 | 35 | 35 | 36 | 45 | 45 | 35 | 25 | 18 | 33  | 55 | 68 | 63 | 63 | 59 | 48 | 62 | 62 | 35 | 38 | ..... | 42.3  |       |      |
| .....              | Minimum | 13 | 23 | 36 | 31 | 27 | 12 | 18    | 22 | 6  | 21 | 17 | 12 | 32 | 23 | 6  | -7 | 2   | 27 | 28 | 31 | 28 | 30 | 30 | 35 | 45 | 35 | 25 | 26    | ..... | 22.6  |      |
| Erie.....          | Maximum | 34 | 38 | 35 | 39 | 28 | 29 | 33    | 30 | 39 | 34 | 31 | 47 | 46 | 29 | 22 | 12 | 37  | 50 | 63 | 66 | 60 | 69 | 57 | 56 | 66 | 33 | 27 | 31    | ..... | 40.8  |      |
| .....              | Minimum | 21 | 34 | 31 | 28 | 10 | 9  | 22    | 21 | 20 | 20 | 19 | 29 | 23 | 22 | 4  | -1 | 11  | 36 | 45 | 51 | 50 | 47 | 47 | 40 | 33 | 22 | 22 | 24    | ..... | 26.4  |      |
| Franklin.....      | Maximum | 36 | 39 | 38 | 44 | 29 | 30 | 33    | 33 | 40 | 28 | 35 | 57 | 43 | 35 | 30 | 20 | 35  | 53 | 65 | 67 | 70 | 69 | 53 | 62 | 65 | 54 | 33 | 40    | ..... | 44.1  |      |
| .....              | Minimum | 19 | 21 | 34 | 28 | 24 | 12 | 16    | 19 | 11 | 22 | 18 | 18 | 28 | 20 | 21 | -5 | -4  | 15 | 33 | 42 | 30 | 29 | 27 | 38 | 44 | 35 | 28 | 23    | ..... | 23.1  |      |
| Freeland.....      | Maximum | 30 | 38 | 40 | 37 | 35 | 24 | 30    | 29 | 34 | 34 | 30 | 37 | 42 | 40 | 38 | 22 | 26  | 42 | 58 | 64 | 64 | 58 | 50 | 61 | 67 | 63 | 33 | 40    | ..... | 41.4  |      |
| .....              | Minimum | 12 | 24 | 34 | 28 | 19 | -2 | 8     | 16 | 16 | 20 | 12 | 15 | 28 | 16 | 18 | -5 | -1  | 16 | 31 | 46 | 47 | 40 | 39 | 40 | 50 | 27 | 19 | 12    | ..... | 22.3  |      |
| Gettysburg.....    | Maximum | 37 | 44 | 49 | 44 | 40 | 37 | 31    | 37 | 38 | 40 | 34 | 46 | 43 | 44 | 40 | 29 | 30  | 43 | 65 | 73 | 73 | 64 | 49 | 40 | 38 | 52 | 44 | 36    | ..... | 28.4  |      |
| .....              | Minimum | 13 | 26 | 34 | 27 | 33 | 17 | 16    | 21 | 18 | 32 | 20 | 19 | 34 | 26 | 28 | 1  | 7   | 24 | 32 | 45 | 44 | 39 | 40 | 38 | 52 | 44 | 36 | 28    | ..... | 48.4  |      |
| Greensburg.....    | Maximum | 32 | 42 | 43 | 40 | 38 | 34 | 39    | 32 | 49 | 45 | 38 | 63 | 54 | 34 | 35 | 20 | 40  | 56 | 65 | 68 | 68 | 68 | 68 | 50 | 43 | 54 | 45 | 32    | 25    | ..... | 29.2 |
| .....              | Minimum | 22 | 33 | 27 | 29 | 27 | 24 | 30    | 23 | 18 | 25 | 18 | 27 | 32 | 20 | 11 | -3 | 12  | 36 | 39 | 46 | 38 | 35 | 50 | 43 | 54 | 45 | 32 | 25    | ..... | 46.2  |      |
| Grove City.....    | Maximum | 39 | 39 | 40 | 42 | 38 | 39 | 36    | 34 | 39 | 38 | 35 | 66 | 54 | 34 | 31 | 20 | 36  | 53 | 65 | 67 | 68 | 69 | 63 | 55 | 65 | 59 | 41 | 38    | ..... | 25.4  |      |
| .....              | Minimum | 15 | 20 | 34 | 30 | 24 | 16 | 12    | 19 | 22 | 20 | 18 | 30 | 29 | 21 | 9  | -6 | -4  | 32 | 36 | 43 | 31 | 30 | 43 | 43 | 52 | 35 | 26 | 22    | ..... | 44.7  |      |
| Hamburg.....       | Maximum | 32 | 40 | 44 | 41 | 37 | 32 | 33    | 33 | 32 | 32 | 31 | 42 | 42 | 39 | 37 | 27 | 28  | 39 | 57 | 70 | 69 | 68 | 64 | 62 | 75 | 73 | 34 | 42    | ..... | 22.0  |      |
| .....              | Minimum | 5  | 14 | 26 | 22 | 31 | 11 | 14    | 15 | 10 | 22 | 19 | 12 | 36 | 25 | 26 | -2 | 0   | 16 | 25 | 31 | 33 | 33 | 35 | 40 | 44 | 31 | 21 | 22    | ..... | 45.5  |      |
| Harrisburg.....    | Maximum | 36 | 43 | 45 | 39 | 37 | 33 | 33    | 36 | 42 | 40 | 36 | 45 | 43 | 43 | 33 | 20 | 27  | 42 | 63 | 72 | 70 | 61 | 50 | 63 | 74 | 64 | 42 | 43    | ..... | 28.5  |      |
| .....              | Minimum | 21 | 28 | 37 | 32 | 32 | 15 | 17    | 24 | 24 | 25 | 22 | 23 | 33 | 28 | 14 | 5  | 10  | 26 | 32 | 40 | 41 | 43 | 43 | 38 | 50 | 37 | 31 | 26    | ..... | 41.6  |      |
| Hawley.....        | Maximum | 29 | 39 | 43 | 39 | 34 | 24 | 27    | 30 | 36 | 34 | 26 | 37 | 41 | 38 | 32 | 25 | 28  | 41 | 57 | 64 | 61 | 60 | 56 | 61 | 69 | 65 | 29 | 39    | ..... | 19.2  |      |
| .....              | Minimum | 8  | 28 | 31 | 25 | 24 | -5 | 8     | 21 | 2  | 25 | 13 | 1  | 31 | 18 | 13 | -1 | -11 | 17 | 25 | 34 | 32 | 30 | 29 | 33 | 44 | 28 | 23 | 11    | ..... | 47.6  |      |
| Huntingdon.....    | Maximum | 38 | 45 | 44 | 42 | 36 | 34 | ..... | 35 | 39 | 39 | 37 | 48 | 46 | 40 | 35 | 28 | 30  | 56 | 61 | 70 | 69 | 65 | 61 | 57 | 72 | 69 | 47 | 42    | ..... | 24.7  |      |
| .....              | Minimum | 23 | 30 | 32 | 27 | 30 | 16 | ..... | 16 | 12 | 27 | 20 | 15 | 36 | 25 | 23 | -3 | 1   | 19 | 24 | 34 | 31 | 28 | 29 | 36 | 50 | 40 | 29 | 27    | ..... | 45.7  |      |
| Johnstown.....     | Maximum | 38 | 48 | 43 | 40 | 36 | 31 | 38    | 33 | 41 | 40 | 37 | 52 | 45 | 38 | 28 | 17 | 35  | 56 | 62 | 67 | 66 | 66 | 52 | 60 | 70 | 62 | 38 | 40    | ..... | 28.0  |      |
| .....              | Minimum | 24 | 34 | 37 | 30 | 30 | 24 | 25    | 23 | 17 | 24 | 21 | 21 | 31 | 26 | 10 | 2  | 11  | 24 | 34 | 45 | 35 | 32 | 35 | 41 | 54 | 38 | 30 | 25    | ..... | 49.2  |      |
| Lancaster.....     | Maximum | 37 | 44 | 48 | 43 | 40 | 36 | 31    | 37 | 39 | 40 | 37 | 45 | 45 | 46 | 43 | 43 | 29  | 27 | 44 | 67 | 76 | 73 | 69 | 59 | 68 | 78 | 75 | 56    | 45    | ..... | 20.8 |
| .....              | Minimum | 1  | 12 | 38 | 20 | 30 | 13 | 14    | 16 | 10 | 29 | 17 | 13 | 25 | 22 | 29 | -1 | -6  | 9  | 23 | 26 | 27 | 28 | 38 | 33 | 35 | 33 | 28 | 20    | ..... | 38.7  |      |
| Lawrenceville..... | Maximum | 32 | 38 | 40 | 35 | 35 | 20 | 27    | 32 | 33 | 33 | 24 | 29 | 36 | 36 | 30 | 15 | 26  | 41 | 52 | 60 | 60 | 58 | 58 | 56 | 55 |    |    |       |       |       |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXV.

MARCH, 1930.

No. 3

### GENERAL SUMMARY.

March was more pleasant and agreeable than usual, and especially so in the southeastern counties. The temperature averaged near the normal in the western half of the State, while there was a moderate excess in the eastern section. Likewise the snowfall averaged near the normal in the north-central counties, while south of the Blue Ridge mountains there was very little snow. The heaviest snows were in the northwest, in Crawford, Warren, and McKean counties where the average was about 20.0 inches. There was less windy and blustery weather than is usually experienced in March. Although there was no snow cover on the fields of the chief wheat growing regions, the grain did not seem to be harmed. There was very little freezing and heaving of the top soil, and at the end of the month the condition of the winter grains was reported to be fully up to the ten-year average. The usual March floods did not materialize this year. There were some near flood stages in the Ohio drainage basin, but scarcely any high water in the Susquehanna or Delaware systems. In the southeastern counties the weather conditions were favorable for outdoor work a large portion of the time. Building operations made fair progress, and farmers did some plowing. Dormant spraying of orchards was done during the latter part of the month, and the trees were generally reported as having wintered in good condition. An unseasonably warm period in February was reported as having done damage to orchards in some places, but later it seemed to have been a false alarm. The highways were in good condition in the eastern counties excepting a 24-hour period when they were covered by a thin coating of ice. In the western portion of the State they were temporarily closed by snow on the 1st and 2d, and again on the 25th and 26th.

### TEMPERATURE.

The mean temperature of the State, as shown by reports from 89 stations, was 37.9°; an excess of 0.4° over the March normal. Monthly mean temperatures ranged from 44.0° at Hanover to 29.1° at Mount Pocono. The highest temperature recorded during the month was 78°, at Phoenixville on the 17th, and the lowest -9°, at Brookville on the 3d. The greatest daily range of temperature was 51°, at Hyndman on the 16th and also at Lancaster on the 17th.

### PRECIPITATION.

The average precipitation for the State, as determined from observations made at 133 well distributed stations, was 3.03 inches; or a deficiency of 0.51 inch compared with the normal for March. The greatest monthly amount was 5.05 inches at Arendtsville, while the lowest, 1.04 inches, was recorded at Mount Pocono. The greatest amount recorded in any 24 consecutive hours was 2.90 inches on the 7-8th at Arendtsville. Snowfall averaged 4.9 inches, which is 2.1 inches less than normal. The greatest monthly snowfall was 24.2 inches at Warren. The greatest 24-hour snowfall, 8.0 inches, fell at Corry on the 2-3d.

### SUNSHINE, HUMIDITY AND WINDS

| Stations     | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |      |
|--------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|------|
|              | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           | Date |
|              |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest |      |
| Harrisburg   | 182.3                   | 370.6                    | 49                     | 74               | 76       | 76      | 10.124                   | 13.6                        | 36        | SW.  |
| Philadelphia | 231.3                   | 371.0                    | 62                     | 67               | 48       | 50      | 5.977                    | 8.0                         | 53        | SW.  |
| Pittsburgh   | 252.7                   | 371.0                    | 68                     | 69               | 50       | 58      | 10.710                   | 14.4                        | 39        | SW.  |
| Reading      | 181.0                   | 370.8                    | 49                     | 77               | 65       | 62      | 8.702                    | 10.4                        | 48        | W.   |
| Scranton     | 219.1                   | 371.0                    | 59                     | 69               | 47       | 53      | 5.943                    | 8.0                         | 32        | E.   |
| State        | 214.9                   | 370.8                    | 58                     | 73               | 35       | 60      | 6.050                    | 8.1                         | 26        | SW.  |

\* For any five-minute period.

† By 3-cup anemometer.

### COMPARATIVE DATA FOR MARCH

| Year | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888 | 31.2        | 72      | -6     | 3.55          | 6.39     | 1.70  | 10          | 8             | 13     | 11                     |
| 1889 | 39.0        | 76      | 4      | 2.90          | 5.44     | 1.44  | 10          | 8             | 13     | 9                      |
| 1890 | 33.2        | 76      | -18    | 5.15          | 8.31     | 2.90  | 6           | 10            | 15     | 16                     |
| 1891 | 33.8        | 60      | -14    | 5.10          | 8.39     | 2.44  | 7           | 8             | 16     | 14                     |
| 1892 | 31.8        | 66      | -4     | 4.14          | 6.61     | 2.04  | 11          | 7             | 13     | 12                     |
| 1893 | 34.8        | 74      | 3      | 2.52          | 5.09     | 0.71  | 9           | 9             | 13     | 11                     |
| 1894 | 43.2        | 84      | -2     | 1.63          | 2.90     | 0.24  | 12          | 11            | 8      | 8                      |
| 1895 | 33.8        | 70      | -4     | 2.31          | 4.03     | 0.99  | 10          | 10            | 11     | 11                     |
| 1896 | 30.6        | 69      | -18    | 4.61          | 7.98     | 1.77  | 11          | 8             | 12     | 11                     |
| 1897 | 39.0        | 75      | -5     | 3.22          | 5.86     | 1.01  | 11          | 7             | 13     | 13                     |
| 1898 | 44.0        | 83      | 4      | 4.31          | 8.40     | 2.06  | 10          | 8             | 13     | 12                     |
| 1899 | 36.3        | 75      | 3      | 4.87          | 10.30    | 1.91  | 5           | 9             | 17     | 14                     |
| 1900 | 31.2        | 66      | -23    | 3.61          | 7.31     | 2.25  | 10          | 9             | 12     | 10                     |
| 1901 | 37.4        | 80      | -11    | 4.14          | 7.21     | 1.52  | 7           | 10            | 14     | 13                     |
| 1902 | 41.3        | 78      | 2      | 3.98          | 7.50     | 0.77  | 10          | 9             | 12     | 11                     |
| 1903 | 46.4        | 83      | 14     | 4.52          | 5.81     | 2.82  | 10          | 7             | 14     | 11                     |
| 1904 | 36.0        | 80      | -2     | 4.29          | 7.02     | 2.10  | 9           | 8             | 14     | 12                     |
| 1905 | 39.0        | 86      | -18    | 3.86          | 6.57     | 1.40  | 12          | 8             | 11     | 11                     |
| 1906 | 31.7        | 68      | -13    | 4.46          | 7.37     | 2.76  | 8           | 7             | 16     | 14                     |
| 1907 | 41.8        | 92      | -10    | 4.26          | 8.20     | 1.08  | 11          | 8             | 12     | 12                     |
| 1908 | 40.7        | 83      | -4     | 4.76          | 10.00    | 1.58  | 11          | 8             | 12     | 12                     |
| 1909 | 35.6        | 74      | -5     | 3.07          | 4.90     | 1.33  | 10          | 9             | 12     | 12                     |
| 1910 | 44.9        | 88      | 5      | 0.56          | 1.33     | 0.00  | 15          | 10            | 6      | 5                      |
| 1911 | 35.0        | 73      | -18    | 2.57          | 4.75     | 1.15  | 11          | 8             | 12     | 13                     |
| 1912 | 33.6        | 72      | -8     | 5.05          | 9.71     | 1.80  | 10          | 8             | 13     | 13                     |
| 1913 | 42.1        | 81      | -7     | 5.27          | 9.08     | 2.75  | 9           | 8             | 14     | 13                     |
| 1914 | 34.2        | 79      | -12    | 2.61          | 5.08     | 0.88  | 10          | 3             | 13     | 10                     |
| 1915 | 32.9        | 62      | -4     | 1.28          | 2.80     | 0.57  | 15          | 8             | 8      | 7                      |
| 1916 | 30.7        | 84      | -31    | 4.12          | 8.84     | 2.20  | 12          | 8             | 11     | 12                     |
| 1917 | 37.3        | 84      | -12    | 3.68          | 6.06     | 1.43  | 11          | 8             | 12     | 14                     |
| 1918 | 41.6        | 82      | 0      | 2.34          | 4.98     | 0.87  | 17          | 7             | 7      | 8                      |
| 1919 | 41.1        | 79      | 6      | 3.57          | 6.99     | 1.29  | 15          | 7             | 9      | 10                     |
| 1920 | 38.7        | 80      | -11    | 2.83          | 9.70     | 1.06  | 16          | 7             | 8      | 9                      |
| 1921 | 43.0        | 88      | 7      | 3.33          | 6.15     | 1.05  | 12          | 9             | 10     | 14                     |
| 1922 | 40.0        | 81      | -5     | 4.37          | 6.65     | 2.30  | 11          | 6             | 14     | 14                     |
| 1923 | 37.0        | 80      | -8     | 2.49          | 5.21     | 0.70  | 13          | 8             | 10     | 11                     |
| 1924 | 36.1        | 78      | 3      | 2.83          | 8.97     | 0.59  | 12          | 8             | 10     | 9                      |
| 1925 | 40.9        | 79      | -15    | 2.56          | 4.13     | 1.47  | 14          | 6             | 11     | 10                     |
| 1926 | 33.1        | 79      | -16    | 1.91          | 3.94     | 0.58  | 14          | 8             | 9      | 10                     |
| 1927 | 42.0        | 82      | -6     | 2.61          | 5.43     | 0.69  | 13          | 7             | 11     | 10                     |
| 1928 | 37.0        | 82      | -3     | 3.24          | 5.45     | 1.65  | 12          | 9             | 10     | 11                     |
| 1929 | 43.7        | 89      | -5     | 2.69          | 4.50     | 1.37  | 12          | 8             | 11     | 12                     |
| 1930 | 37.9        | 78      | -9     | 3.03          | 5.05     | 1.04  | 13          | 7             | 11     | 10                     |

### RIVER CONDITIONS

| Stations     | Rivers       | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|--------------|--------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis  | Delaware     | 4.6        | 8.9           | 9    | 3.4          | 31   | 18          |
| Phillipsburg | Delaware     | 5.7        | 9.5           | 8    | 3.5          | 31   | 22          |
| Mauch Chunk  | Lehigh       | -1.5       | -0.2          | 8    | -2.2         | 6    | 12          |
| Wilkes-Barre | Susquehanna  | 9.9        | 16.3          | 9    | 7.0          | 7    | 20          |
| Williamsport | Susquehanna  | 5.7        | 9.1           | 9    | 3.4          | 31   | 20          |
| Harrisburg   | Susquehanna  | 6.8        | 10.1          | 10   | 5.5          | 26   | 17          |
| Greensboro   | Monongahela  | 14.5       | 20.0          | 20   | 12.0         | 30   | 30          |
| West Newton  | Youghiogheny | 3.2        | 5.4           | 20   | 1.7          | 31   | 20          |
| Lock No. 4   | Monongahela  | 17.0       | 21.2          | 20   | 14.2         | 31   | 31          |
| Pittsburgh   | Ohio         | 15.2       | 18.6          | 1    | 12.6         | 31   | 25          |
| Beaver Dam   | Ohio         | 14.0       | 20.5          | 1    | 9.4          | 25   | 30          |



## Climatological Data for March, 1930

| Stations            | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers        |                              |
|---------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|------------------|------------------------------|
|                     |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |                  | Cloudy                       |
| Atlantic Drainage.  |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                  |                              |
| Allentown           | Lehigh       | 254             | 19                      | 38.5                         |                           | 72      | 17   | 16     | 3    | 38                       | 2.27  | -1.71                     | 0.90                 | 0.5                       | 8                            | 19    | 6          | 6                            | nw.              | John A. Frick.               |
| Altoona             | Blair        | 1,615           | 43                      | 36.6                         | -0.7                      | 68      | 17   | 10     | 3    | 39                       | 2.88  | +0.18                     | 0.68                 | 3.5                       | 11                           | 21    | 4          | 6                            | w.               | F. E. Rooney.                |
| Arendtsville        | Adams        | 700             | 6                       | 37.4                         |                           | 74      | 17   | 12     | 3    | 40                       | 5.05  |                           | 2.90                 | T.                        | 5                            | 16    | 7          | 8                            | nw.              | Dr. S. W. Frost.             |
| Bellefonte          | Center       | 1,050           | 25                      | 35.7                         |                           | 68      | 17   | 14     | 3    | 39                       | 2.31  | -1.49                     | 1.29                 | 2.6                       | 11                           | 11    | 4          | 16                           | w.               | U. S. Weather Bureau.        |
| Bethlehem           | Northampton  | 364             | 44                      | 41.8                         | +2.2                      | 72      | 17   | 16     | 3    | 36                       | 2.50  | -1.14                     | 1.43                 | 0.2                       | 8                            | 16    | 8          | 7                            | w.               | Lehigh University.           |
| Carlisle            | Cumberland   | 467             | 64                      | 41.2                         | +3.7                      | 74      | 17   | 14     | 5    | 44                       | 3.39  | -0.15                     | 2.28                 | 1.0                       | 10                           | 19    | 5          | 7                            | sw.              | Prof. C. E. Miller.          |
| Catawissa           | Columbia     | 520             | 34                      | 38.0                         | +0.4                      | 74      | 17   | 13     | 3    | 45                       | 2.42  | -0.63                     | 0.60                 | 4.5                       | 9                            | 19    | 3          | 9                            | .....            | H. H. Yetter.                |
| Center Hall         | Center       | 1,272           | 34                      | 35.8                         | 0.0                       | 63      | 24   | 11     | 3    | 41                       | 3.96  | +0.71                     | 2.45                 | 6.5                       | 10                           | 21    | 2          | 8                            | .....            | S. W. Smith.                 |
| Chambersburg        | Franklin     | 580             | 31                      | 40.8                         | +2.4                      | 72      | 17   | 16     | 5    | 41                       | 2.28  | -0.72                     | 1.26                 | 1.5                       | 8                            | 12    | 12         | 7                            | sw.              | William B. Spear.            |
| Clearfield          | Clearfield   | 1,120           | 21                      | 37.8                         | +0.3                      | 69      | 17   | 9      | 5    | 43                       | 3.11  | -0.46                     | 0.70                 | 16.3                      | 11                           | 13    | 7          | 11                           | nw.              | E. W. Hess.                  |
| Coatesville         | Chester      | 380             | 43                      | 39.7                         | +0.3                      | 73      | 17   | 10     | 5    | 43                       | 3.02  | -1.34                     | 1.84                 | 0.1                       | 7                            | 16    | 9          | 6                            | nw.              | Prof. W. T. Gordon.          |
| Colebrook           | Lebanon      | 560             | 21                      | 38.3                         | -2.3                      | 72      | 17   | 12     | 4    | 40                       | 2.72  | -0.97                     | 0.76                 | 1.6                       | 9                            | 15    | 5          | 11                           | w.               | Wm. A. Rorer.                |
| Emporium            | Cameron      | 1,050           | 43                      | 34.4                         | -0.6                      | 68      | 17   | 10     | 5    | 40                       | 3.40  | -0.32                     | 0.54                 | 9.0                       | 12                           | 10    | 9          | 12                           | w.               | T. B. Lloyd.                 |
| Ephrata             | Lancaster    | 380             | 30                      | 41.2                         | +2.2                      | 78      | 17   | 18     | 5    | 41                       | 2.18  | -1.34                     | 0.76                 | T.                        | 9                            | 14    | 9          | 8                            | w.               | Ira J. Keath.                |
| Freeland            | Luzerne      | 1,970           | 15                      | 35.9                         |                           | 68      | 17   | 7      | 3    | 36                       | 3.96  |                           | 0.95                 | 11.7                      | 11                           | 9     | 13         | nw.                          | Theo. Reichmann. |                              |
| George School       | Bucks        | 190             | 24                      | 41.2                         | +2.0                      | 75      | 17   | 18     | 3    | 44                       | 2.84  | -0.62                     | 1.68                 | T.                        | 8                            | 21    | 5          | 5                            | nw.              | Prof. N. W. Swayne           |
| Gettysburg          | Adams        | 553             | 57                      | 42.0                         | +2.8                      | 73      | 17   | 18     | 4    | 40                       | 2.75  | -0.41                     | 1.67                 | T.                        | 7                            | 13    | 10         | 8                            | w.               | Dr. Henry Stewart            |
| Gordon              | Schuylkill   | 840             | 27                      | 37.8                         | +1.9                      | 71      | 17   | 10     | 5    | 42                       | 3.21  | -1.11                     | 0.70                 | 5.3                       | 10                           | 16    | 6          | 9                            | w.               | Capt. J. G. Johnson          |
| Gouldsboro          | Wayne        | 1,875           | 16                      | 31.4                         |                           | 63      | 17   | 5      | 3    | 35                       | 4.08  | +0.82                     | 1.86                 | 4.0                       | 8                            | 16    | 7          | 8                            | w.               | Gustav Holtz.                |
| Hamburg             | Berks        | 535             | 37                      | 39.6                         | +1.2                      | 72      | 17   | 14     | 4    | 43                       | 2.71  | -1.43                     | 0.96                 | T.                        | 7                            | 18    | 7          | 6                            | w.               | State Sanatorium.            |
| Hanover             | York         | 600             | 27                      | 44.0                         | +2.4                      | 75      | 17   | 11     | 5    | 43                       | 3.09  | -0.06                     | 1.38                 | T.                        | 8                            | 17    | 7          | 7                            | w.               | Thomas Y. Cooper.            |
| Harrisburg          | Dauphin      | 361             | 61                      | 40.8                         | +1.9                      | 71      | 17   | 19     | 22   | 32                       | 3.84  | +0.80                     |                      | 1.85                      | 1.2                          | 10    | 13         | 9                            | w.               | U. S. Weather Bureau.        |
| Hawley              | Wayne        | 900             | 12                      | 35.8                         |                           | 68      | 17   | 10     | 5    | 38                       | 3.38  |                           | 1.85                 | 0.4                       | 10                           | 13    | 10         | 8                            | nw.              | Mrs. Della M. Pennell.       |
| Holtwood            | Lancaster    | 200             | 15                      | 42.9                         |                           | 75      | 18   | 22     | 5    | 36                       | 2.33  | -0.74                     | 1.05                 | T.                        | 6                            | 17    | 10         | 4                            | nw.              | H. W. Lowy, C. E.            |
| Huntingdon          | Huntingdon   | 650             | 43                      | 38.4                         | +0.1                      | 71      | 17   | 14     | 5    | 47                       | 2.26  | -1.30                     | 0.89                 | T.                        | 9                            | 14    | 6          | 11                           | nw.              | Prof. H. A. Conner.          |
| Hyndman             | Bedford      | 977             | 18                      | 41.3                         | +1.4                      | 73      | 16   | 14     | 3    | 51                       | 1.87  | -1.48                     | 0.54                 | 2.4                       | 10                           | 12    | 7          | 12                           | .....            | Horace A. Sheavly.           |
| Kylertown           | Clearfield   | 1,637           |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | .....            | U. S. Bureau Plant Industry. |
| Lancaster           | Lancaster    | 255             | 43                      | 41.2                         | +3.2                      | 77      | 17   | 13     | 22   | 51                       | 2.79  | -0.66                     | 1.00                 | T.                        | 7                            | 21    | 5          | 5                            | w.               | Supt. of Water Works.        |
| Lawrenceville       | Tioga        | 1,000           | 33                      | 32.6                         | -1.4                      | 62      | 17   | 6      | 5    | 34                       | 2.05  | -0.46                     | 0.72                 | 6.0                       | 10                           | 12    | 7          | 12                           | .....            | C. P. Darling.               |
| Lebanon             | Lebanon      | 469             | 90                      | 42.0                         | +3.4                      | 74      | 17   | 17     | 3    | 39                       | 1.86  | -1.98                     | 0.70                 | T.                        | 8                            | 16    | 9          | 6                            | w.               | S. B. Benzing.               |
| Lewisburg           | Union        | 450             | 56                      | 39.6                         | +4.3                      | 73      | 17   | 16     | 3    | 43                       | 3.71  | +0.19                     | 1.77                 | 1.0                       | 9                            | 12    | 9          | 10                           | w.               | Prof. W. G. Owens.           |
| Lock Haven          | Clinton      | 560             | 42                      | 40.6                         | +2.8                      | 74      | 17   | 16     | 23   | 41                       | 2.41  | -1.13                     | 0.86                 | 1.0                       | 10                           | 10    | 12         | 9                            | sw.              | Joseph Beaver.               |
| Lykens              | Dauphin      | 680             | 16                      | 39.6                         | +0.1                      | 76      | 17   | 11     | 5    | 46                       | 3.40  | +0.53                     | 1.63                 | 1.5                       | 9                            | 18    | 5          | 8                            | nw.              | Susquehanna Collieries Co.   |
| Mauch Chunk         | Carbon       | 600             | 41                      | 37.6                         | +0.8                      | 74      | 17   | 10     | 5    | 47                       | 3.32  | -1.18                     | 1.20                 | 2.5                       | 9                            | 17    | 6          | 8                            | s.               | R. K. Wintermute.            |
| Millintown          | Juniata      | 445             | 27                      | 39.4                         | +1.4                      | 72      | 17   | 16     | 3    | 42                       | 3.11  | -0.05                     | 1.62                 | 3.0                       | 10                           | 14    | 6          | 11                           | w.               | Wellington Smith.            |
| Montrose            | Susquehanna  | 1,720           | 28                      | 32.8                         | +1.7                      | 69      | 17   | 4      | 4    | 37                       | 3.35  | +0.64                     | 1.80                 | 2.0                       | 6                            | 14    | 2          | 15                           | w.               | Silas Jagger.                |
| Mt. Pocono          | Monroe       | 1,658           | 26                      | 29.1                         | -2.9                      | 61      | 17   | 9      | 3    | 33                       | 1.04  | -2.72                     | 0.30                 | 1.0                       | 8                            | 11    | 4          | 16                           | nw.              | Cecil J. Hoskinson.          |
| Muncy Valley        | Sullivan     | 1,045           | 19                      | 36.2                         | +0.2                      | 70      | 17   | 9      | 3    | 42                       | 4.63  | +2.24                     | 1.60                 | 1.0                       | 8                            | 14    | 6          | 11                           | nw.              | H. O. Hacker.                |
| Narberth            | Montgomery   | 300             | 11                      | 39.9                         |                           | 72      | 17   | 17     | 3    | 39                       | 3.51  |                           | 2.29                 | T.                        | 9                            | 16    | 6          | 9                            | nw.              | Charles Decker.              |
| Neshaminy Falls     | Bucks        | 60              | 41                      | 39.2                         | -0.3                      | 75      | 17   | 14     | 5    | 47                       | 3.13  |                           | 1.75                 | 0                         | 7                            | 22    | 4          | 5                            | w.               | North Springfield Water Co.  |
| Palmerton           | Carbon       | 398             | 14                      | 37.2                         |                           | 72      | 17   | 16     | 5    | 36                       | 2.37  |                           | 0.77                 | 0.5                       | 10                           | 5     | 10         | 16                           | w.               | New Jersey Zinc Co.          |
| Philadelphia        | Philadelphia | 114             | 59                      | 43.7                         | +2.9                      | 74      | 17   | 21     | 3    | 32                       | 2.58  | -0.81                     | 1.65                 | T.                        | 8                            | 9     | 14         | 8                            | nw.              | U. S. Weather Bureau.        |
| Philadelphia-Gtn.   | Philadelphia | 113             | 6                       | 43.1                         |                           | 74      | 17   | 21     | 3    | 35                       | 2.71  |                           |                      | T.                        | 7                            | 11    | 13         | 7                            | .....            | Julius Bernstein.            |
| Phila. Navy Yard    | Philadelphia | 12              | 15                      | 42.1                         | 0.0                       | 68      | 18   | 21     | 3    | 31                       | 2.53  | -0.79                     | 1.72                 | T.                        | 8                            | 9     | 14         | 8                            | nw.              | Commandant, Navy Yard.       |
| Phila. Point Breeze | Philadelphia | 90              | 5                       | 43.3                         |                           | 74      | 17   | 21     | 3    | 35                       | 2.54  |                           | 1.59                 | T.                        | 6                            | 10    | 6          | 15                           | sw.              | Atlantic Refining Co.        |
| Phoenixville        | Chester      | 100             | 20                      | 42.7                         | +2.1                      | 78      | 17   | 19     | 3    | 47                       | 3.12  | -0.53                     | 1.80                 | T.                        | 6                            | 19    | 11         | 1                            | w.               | North Springfield Water Co.  |
| Quakertown          | Bucks        | 496             | 46                      | 39.1                         | +2.8                      | 72      | 17   | 14     | 5    | 44                       | 2.51  | -1.20                     | 1.48                 | T.                        | 6                            | 17    | 5          | 9                            | nw.              | John E. Benner.              |
| Reading             | Berks        | 325             | 61                      | 41.1                         | +1.1                      | 72      | 17   | 19     | 3    | 34                       | 2.07  | -1.45                     | 0.99                 | T.                        | 8                            | 12    | 11         | 8                            | w.               | U. S. Weather Bureau.        |
| Scranton            | Lackawanna   | 805             | 36                      | 36.6                         | +0.9                      | 70      | 17   | 14     | 3    | 33                       | 2.26  | -0.94                     | 0.69                 | 1.7                       | 10                           | 6     | 11         | 14                           | sw.              | U. S. Weather Bureau.        |
| Selinsgrove         | Snyder       | 455             | 42                      | 40.1                         | +1.9                      | 71      | 17   | 17     | 3    | 40                       | 2.71  | -1.06                     | 1.20                 | 1.1                       | 7                            | 15    | 7          | 9                            | w.               | Dr. George E. Fisher.        |
| Shawmont            | Philadelphia | 51              | 35                      | 42.6                         |                           | 72      | 17   | 20     | 3    | 38                       | 3.13  | -0.49                     | 2.10                 | T.                        | 7                            | 13    | 10         | 8                            | nw.              | W. S. Guiles.                |
| State College       | Center       | 1,217           | 46                      | 37.0                         | +1.7                      | 67      | 17   | 14     | 3    | 37                       | 2.50  | -0.78                     | 0.49                 | 3.2                       | 10                           | 11    | 11         | 9                            | nw.              | C. A. Kern.                  |
| Stroudsburg         | Monroe       | 500             | 16                      | 35.0                         | -1.8                      | 71      | 17   | 10     | 5    | 46                       | 3.52  | -0.33                     | 2.00                 | T.                        | 6                            | 17    | 5          | 9                            | nw.              | State Normal School.         |
| Towanda             | Bradford     | 754             | 36                      | 35.1                         | +0.7                      | 64      | 17   | 12     | 3    | 36                       | 2.80  | +0.05                     | 1.18                 | 3.0                       | 12                           | 8     | 6          | 17                           | nw.              | Hiram E. Bull, C. E.         |
| Wellsboro           | Tioga        | 1,419           | 66                      | 33.9                         | +1.2                      | 65      | 17   | 9      | 5    | 36                       | 2.81  | -0.44                     | 0.92                 | 6.5                       | 9                            | 16    | 6          | 9                            | nw.              | George W. Hill.              |
| West Chester        | Chester      | 455             | 93                      | 42.2                         | +3.9                      | 75      | 17   | 16     | 22   | 39                       | 3.15  | -0.92                     | 2.00                 | T.                        | 4                            | 19    | 8          | 4                            | w.               | Joseph W. Belt.              |
| Williamsport        | Lycoming     | 521             | 44                      | 38.7                         | +2.1                      | 70      | 17   | 15     | 3    | 39                       | 4.47  | +1.12                     | 2.36                 | T.                        | 12                           | 14    | 5          | 12                           | w.               | Miss Veronica E. April.      |
| York                | York         | 400             | 43                      | 42.5                         | +3.1                      | 75      | 17   | 18     | 5    | 47                       | 3.16  | -0.14                     | 1.62                 | 0                         | 8                            | 17    | 10         | 4                            | w.               | York Water Co.               |
| Ohio Drainage.      |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                  |                              |
| Beaver Dam          | Beaver       | 700             | 38                      | 38.4                         | -3.2                      | 69      | 16   | 13     | 3    | 41                       | 3.23  | -0.32                     | 0.78                 | 7.0                       | 14                           | 5     | 12         | 14                           | sw.              | U. S. Engineer.              |
| Bradford            | McKean       | 1,460           | 15                      | 34.2                         | -2.1                      | 68      | 17   | 10     | 3    | 36                       | 4.59  | +1.45                     | 0.56                 | 20.0                      | 20                           | 6     | 11         | 14                           | sw.              | Supt. Timber Pres. Plant.    |
| Brookville          | Jefferson    | 1,173           | 40                      | 31.8                         | -1.1                      | 67      | 17   | 9      | 3    | 43                       | 3.18  | +0.12                     | 0.96                 | 9.8                       | 13                           | 15    | 5          | 11                           | .....            | John Fawcett.                |
| Butler              | Butler       | 1,152           | 9                       | 36.9                         |                           | 68      | 17   | 12     | 3    | 41                       | 2.88  |                           | 0.75                 | 9.0                       | 9                            | 12    | 7          | 12                           | nw.              | William C. Faust.            |
| Chambersville       | Indiana      | 1,047           |                         | 36.9                         |                           | 71      | 24   | 8      | 23   | 50                       | 2.56  |                           | 0.79                 | 9.3                       | 13                           | 9     | 1          | 21                           | w.               | John E. Lewis.               |
| Claysville          | Washington   | 1,150           | 27                      | 39.6                         | -1.0                      |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                  |                              |



Daily Precipitation for March, 1930

| Stations           | Drainage Basin | Day of month |      |     |     |   |    |      |      |     |     |     |     |     |    |    |     |     |      |     |    |     |    |     |     |     |     |     |     |     |     |      | Total |      |
|--------------------|----------------|--------------|------|-----|-----|---|----|------|------|-----|-----|-----|-----|-----|----|----|-----|-----|------|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2    | 3   | 4   | 5 | 6  | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14 | 15 | 16  | 17  | 18   | 19  | 20 | 21  | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |      |     |     |   |    |      |      |     |     |     |     |     |    |    |     |     |      |     |    |     |    |     |     |     |     |     |     |     |     |      |       |      |
| Allentown          | Lehigh         |              | .05  |     |     |   |    | .90  | .21  |     |     |     | .41 | T.  |    |    |     |     | .25  |     |    |     |    |     |     | .18 | .24 | .03 |     |     |     |      | 2.27  |      |
| Altoona            | Juniata        |              | .31  | T.  | .06 |   |    | .29  | .43  |     |     | .33 | .13 |     |    |    |     | .59 | .09  |     |    |     |    |     | T.  | .53 | .06 |     | .06 |     |     |      | 2.88  |      |
| Ansonia            | W. Br. Susq.   |              | .85  | T.  |     |   | T. |      | .11  | .06 |     | .11 | .25 | T.  |    |    |     | .06 | .32  | T.  |    |     |    | T.  |     | .26 |     |     |     |     |     | T.   | 3.02  |      |
| Arendtsville       | Lower Susq.    |              | T.   |     |     |   |    | .05  | 2.90 |     |     | .27 |     |     |    |    |     |     | 1.48 |     |    |     |    |     |     |     | .35 |     |     |     |     |      | 5.05  |      |
| Baker's Summit     | Juniata        |              |      |     |     |   |    | .54  | .32  |     |     | .45 | .14 |     |    |    |     | .22 | .92  |     |    |     |    |     |     | .54 |     |     |     |     |     |      | 3.13  |      |
| Bellefonte         | W. Br. Susq.   | .15          | .08  | T.  | T.  |   |    | 1.15 | .14  |     |     | .21 | .01 |     |    |    | .01 | .16 | T.   |     |    | T.  |    |     |     | .31 | .06 | .03 | T.  | T.  | T.  |      | 2.31  |      |
| Bethlehem          | Lehigh         |              | .06  | .02 |     |   |    | T.   | 1.43 |     |     | .32 | .06 |     |    |    |     | T.  | .28  |     |    |     |    |     |     | .16 | .17 |     |     |     |     |      | 2.50  |      |
| Blossersville      | Lower Susq.    |              | T.   |     |     |   |    | 1.30 |      |     | .20 |     |     |     |    |    |     | .40 | .25  |     |    |     |    |     | .05 | .20 | .25 | .03 |     |     |     |      | 2.68  |      |
| Carlisle           | Lower Susq.    | T.           | .04  |     |     |   |    | .48  | 1.80 |     |     | .21 | .02 |     |    |    |     | .15 | .25  |     |    |     |    |     |     | .15 | .27 | .02 |     |     |     |      | 3.89  |      |
| Catawissa          | N. Br. Susq.   |              | .15  |     |     |   |    | .50  | .10  |     |     | .30 |     |     |    |    |     | .02 | .43  |     |    |     |    |     |     | .60 | .12 | .20 |     |     |     |      | 2.42  |      |
| Center Hall        | Susquehanna    |              | .14  |     |     |   |    | .21  | 2.45 |     |     | .04 | .07 |     |    |    |     | *   | *    |     |    |     |    |     |     | .01 | .56 | .48 |     |     |     |      | 3.96  |      |
| Chambersburg       | Potomac        |              | T.   | T.  |     |   |    | .12  | 1.26 |     |     | .21 | .02 |     |    |    |     | .14 | .12  |     |    |     |    |     | .01 |     |     |     |     |     |     |      | 2.28  |      |
| Clearfield         | W. Br. Susq.   | .30          | .05  | T.  | T.  |   |    | .17  | .27  |     |     | .76 | .50 |     |    |    |     | .30 | T.   |     |    |     |    |     |     | T.  | .52 | .12 | .15 |     | .03 |      | 3.11  |      |
| Coatesville        | Lower Del.     |              | .05  |     |     |   |    | .47  | 1.37 |     |     | .29 | T.  |     |    |    |     | .27 | .32  |     |    |     |    |     |     |     | .25 |     |     |     |     |      | 3.02  |      |
| Colebrook          | Lower Susq.    |              | .09  |     |     |   |    | .35  | .76  |     |     | .35 | T.  |     |    |    |     | .39 | .18  |     |    |     |    |     | T.  | .47 | .15 | .03 | T.  |     | T.  |      | 2.77  |      |
| Conshohocken       | Schuylkill     |              | .03  | T.  |     |   |    | .49  | 1.21 |     |     | .18 | T.  |     |    |    |     |     | .62  |     |    |     |    |     |     |     | .10 |     |     |     |     |      | 2.63  |      |
| Cresson            | Juniata        |              | .41  |     |     |   |    | .59  | .04  |     |     | .24 | .15 |     |    |    | .20 | .76 |      |     |    |     |    |     |     |     | .20 | .16 | .14 |     |     |      | 2.89  |      |
| Doylestown         | Lower Del.     |              |      |     |     |   |    | .05  | 1.96 |     |     | .26 |     |     |    |    |     |     | .46  |     |    |     |    |     |     | .17 | T.  |     |     |     |     |      | 2.90  |      |
| Driftwood          | W. Br. Susq.   |              | 1.55 |     |     |   |    |      | .10  |     | .40 |     | .12 | .25 |    |    |     | .20 | .28  |     |    |     |    |     |     |     | .10 |     |     |     |     |      | 3.00  |      |
| Emporium           | do             | .22          | .45  | T.  | T.  |   |    | .33  | .30  |     |     | .54 | .25 |     |    |    | .04 | .39 | T.   |     |    |     |    |     |     | .49 | .15 | .10 | T.  |     | .14 |      | 3.40  |      |
| Ephrata            | Lower Susq.    |              | .02  |     |     |   |    | .05  | .66  |     |     | .25 |     |     |    |    |     | .03 | .73  |     |    |     |    |     |     | T.  | .04 | .39 | .01 | T.  |     |      | 2.18  |      |
| Forest City        | N. Br. Susq.   |              |      |     |     |   |    |      | .95  | .12 |     |     | .63 | T.  |    |    |     | .04 | .52  |     |    | T.  |    |     | T.  | .08 | .66 | .40 | .06 |     | T.  | T.   | 3.96  |      |
| Freeland           | Lehigh         | .28          | .22  |     | T.  |   |    |      | .95  | .12 |     |     | .63 | T.  |    |    |     |     |      | .46 |    |     |    |     |     |     | .35 | .05 |     |     |     |      | 2.84  |      |
| George School      | Lower Del.     | .05          |      |     |     |   |    | .01  | 1.67 |     |     | .23 | .02 |     |    |    |     |     |      | .29 |    |     |    |     |     |     | .09 | .20 | T.  |     |     |      | 2.75  |      |
| Gettysburg         | Potomac        | T.           |      |     |     |   |    | .33  | 1.34 |     |     | .22 | T.  |     |    |    |     | .28 | .29  |     |    |     |    |     |     |     | .99 | .15 | .23 |     |     |      | 4.03  |      |
| Girardville        | Lower Susq.    | .25          |      |     |     |   |    | .14  | .88  | .02 |     | .50 |     |     |    |    |     | .37 | *    |     |    | .04 |    |     |     |     | *   |     |     |     |     |      | 3.21  |      |
| Gordon             | Lower Susq.    | .13          |      |     |     |   |    | .20  | .70  | .02 |     | .55 | T.  |     |    |    |     | .22 | .23  |     |    |     |    |     |     | .42 | .59 |     | .15 |     |     |      | 3.21  |      |
| Gouldsboro         | Lehigh         | .09          | .14  |     |     |   |    |      | 1.86 | .02 |     |     | .49 |     |    |    |     |     | .30  |     |    |     |    |     |     |     | .35 | .78 | .07 |     |     |      | 4.08  |      |
| Graterford         | Schuylkill     | T.           |      |     |     |   |    | .02  | 1.63 |     |     | .18 |     |     |    |    |     |     | .28  |     |    |     |    |     |     |     | .09 | .21 |     |     |     |      | 2.41  |      |
| Hamburg            | Schuylkill     | T.           |      |     |     |   |    | .11  | .96  |     |     | .46 | T.  |     |    |    |     | .44 |      |     |    |     |    |     |     | .15 | .51 | .08 |     |     |     |      | 2.71  |      |
| Hanover            | Lower Susq.    |              | T.   |     | T.  |   |    | .18  | 1.20 |     |     | .38 | .02 |     |    |    |     | .10 | .68  |     |    |     |    |     |     | .33 | .20 | T.  |     |     |     | 3.09 |       |      |
| Harrisburg         | do             | .06          |      |     | T.  |   |    | 1.63 | .32  | .02 |     | .21 |     |     |    |    | T.  | .50 | .02  |     |    |     |    | .02 |     |     | .96 | .10 | .02 | T.  |     |      | 3.84  |      |
| Hawley             | Upper Del.     |              | .10  |     |     |   |    | 1.85 | .10  |     |     | .40 | T.  |     |    |    |     | .04 | .01  | .42 |    |     |    |     |     | .16 | .23 | .07 | T.  |     |     | T.   | 3.38  |      |
| Holisterville      | Upper Del.     | .17          | .01  | T.  |     |   |    | 1.30 | .17  |     |     | .36 | .01 |     |    |    |     | .01 | .04  | .49 |    | T.  |    |     |     |     | .08 | .40 | .14 | T.  | T.  |      | 3.18  |      |
| Holtwood           | Lower Susq.    |              | T.   |     |     |   |    | T.   | 1.05 | .04 |     | .24 | T.  |     |    |    |     |     | .31  |     |    |     |    |     |     | .08 | .61 |     |     |     |     |      | 2.33  |      |
| Huntingdon         | Juniata        | .08          |      | T.  |     |   |    | .22  | .67  |     |     | .35 | .02 |     |    |    |     | .40 | .23  |     |    |     |    |     |     | .09 | .20 | T.  |     |     |     |      | 2.26  |      |
| Hyndman            | Potomac        | .03          | .03  |     |     |   |    | .54  | .04  | T.  |     | .31 | .28 |     |    |    |     | .22 | .15  |     |    |     |    |     |     | .07 | .20 | T.  | T.  |     |     |      | 1.87  |      |
| Kylertown          | W. B. Susq.    |              |      |     |     |   |    |      | 2.15 | .17 |     |     | .34 | T.  |    |    |     | .03 | .35  |     |    |     |    |     |     | .28 | .26 | .04 |     |     |     |      | 3.71  |      |
| Lakeville          | Upper Del.     | .09          |      |     |     |   |    |      | .67  |     |     | .32 |     |     |    |    |     |     | .90  |     |    |     |    |     |     |     | .21 | .33 |     |     |     |      | 2.79  |      |
| Lancaster          | Lower Susq.    | .03          |      |     |     |   |    | .06  | .94  |     |     |     | .45 |     |    |    |     | T.  |      | .31 |    |     |    |     |     |     | .18 | .50 | .03 | .04 |     |      | 2.25  |      |
| Lansford           | Lehigh         | *            | .07  |     |     |   |    |      | .67  |     | T.  |     | .45 |     |    |    |     |     |      |     |    |     |    |     |     |     | .10 | .10 | .05 |     |     |      | T.    | 2.05 |
| Lawrenceville      | N. Br. Susq.   | T.           | .72  |     |     |   |    | .10  | .38  | .05 |     | .10 | T.  |     |    |    |     | .40 | .05  |     |    |     |    |     |     |     | .10 | .10 | .05 |     |     |      | T.    | 2.05 |
| Lebanon            | Lower Susq.    |              | .04  | T.  |     |   |    | .05  | .70  | T.  |     | .40 | T.  |     |    |    |     | .13 | .20  |     |    |     |    |     |     |     | .12 | .22 | T.  | T.  |     |      | 1.86  |      |
| Lewisburg          | W. Br. Susq.   | .01          | T.   |     |     |   |    | .29  | 1.77 |     |     | .17 |     |     |    |    |     | .41 | .10  |     |    |     |    |     |     |     | .40 | .52 | .04 |     |     |      | T.    | 3.71 |
| Lloyd              | do             |              |      |     |     |   |    |      |      |     |     | .16 | .06 |     |    |    |     | .18 | .24  |     |    |     |    |     |     |     | .44 | .01 | T.  |     |     | .02  | 2.41  |      |
| Lock Haven         | do             | .30          |      |     |     |   |    | .14  | .86  |     |     | .16 | .06 |     |    |    |     |     | .18  | .24 |    |     |    |     |     |     |     | .44 | .01 | T.  |     |      | 2.41  |      |
| Lykens             | Susquehanna    | .21          | T.   |     |     |   |    | .19  | 1.44 |     |     | .40 | .01 |     |    |    |     | .18 | .12  |     |    |     |    |     |     |     | .74 | .11 |     |     |     |      | 3.40  |      |
| Mauch Chunk        | Lehigh         | .25          |      |     |     |   |    | .18  | 1.02 |     |     | .43 |     |     |    |    |     | .36 | .10  |     |    |     |    |     |     |     | .32 | .59 | .16 |     |     |      | 3.32  |      |
| Midlinton          | Juniata        | .05          |      | T.  |     |   |    | .26  | 1.36 |     |     | .18 | .01 |     |    |    |     | .22 | .14  |     |    |     |    |     |     |     | .01 | .74 | .14 |     |     |      | 3.11  |      |
| Montrose           | N. Br. Susq.   | .15          |      |     |     |   |    |      | 1.80 |     |     |     | T.  |     |    |    |     | .30 | .30  |     |    |     |    |     |     |     | .30 |     | T.  |     | .50 |      | 3.35  |      |
| Morris Run         | N. Br. Susq.   | .82          |      |     |     |   |    | .46  | 1.20 | .07 |     | .27 |     |     |    |    |     | .38 | .07  |     |    |     |    |     |     |     | .12 | .57 | .07 |     |     |      | 4.10  |      |
| Mount Pocono       | Upper Del.     | .04          | .02  | T.  |     |   |    | .06  | T.   |     | T.  | T.  |     |     |    |    |     | .10 | .16  | T.  | T. |     |    |     |     |     | .30 | .26 | .10 | T.  | T.  | T.   | 1.04  |      |
| Muncy Valley       | W. Br. Susq.   | .31          | T.   |     |     |   |    | .31  | 1.60 |     |     | .39 | T.  |     |    |    |     | .34 | .67  |     |    |     |    |     |     |     | .37 | .64 | T.  | T.  |     | T.   | 4.63  |      |
| Narberth           | Lower Del.     | .04          | T.   |     |     |   |    | .20  | 2.09 |     |     | .38 | .02 |     |    |    |     | .20 | .31  |     |    |     |    |     |     |     | .17 | .10 |     |     |     |      | 3.51  |      |
| Neshaminy          | Lower Del.     | .05          |      |     |     |   |    |      | 1.65 | .10 |     | .35 |     |     |    |    |     |     | .63  |     |    |     | </ |     |     |     |     |     |     |     |     |      |       |      |



## Daily Precipitation for March, 1930—Continued from page 13

| Stations        | Drainage Basin | Day of month |      |     |     |     |     |      |     |     |     |     |     |     |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |     |     |     | Total |      |
|-----------------|----------------|--------------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|
|                 |                | 1            | 2    | 3   | 4   | 5   | 6   | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17  | 18   | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |
| Ohio Drainage.  |                |              |      |     |     |     |     |      |     |     |     |     |     |     |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |     |     |     |       |      |
| Beaver Dam\|\|\| | Ohio           | .43          | .05  |     |     |     |     | .04  | .78 | .05 |     | .41 | .11 | .01 |     |    |    |     | .28  | .17 |     |     |     |    |     |     | .01 | .49 | .22 | .18 |     |     |       | 3.23 |
| Beaver Falls\|\|\| | Beaver         | .54          | .12  | .01 |     |     |     | .02  | .86 | .03 |     | .40 | .09 | T.  | .12 |    |    |     | .25  | .17 | T.  | .01 |     | T. |     |     | .01 | .64 | .12 | .20 |     | T.  |       | 3.47 |
| Bradford        | Allegheny      | .08          | .50  | .02 |     |     | .52 | .25  | .14 | .02 |     | .56 | .40 |     |     |    |    | .14 | .35  | .10 | .03 |     | T.  |    |     | .42 | .20 | .30 | .14 | .10 | .20 |     | 4.59  |      |
| Brookville      | do             | .96          | .05  | .09 |     |     |     | .21  | .04 |     | T.  | .66 | .08 |     |     |    |    | .15 | .30  | T.  | T.  |     |     |    |     | .26 | .20 | .15 | .03 | T.  | T.  |     | 3.18  |      |
| Butler          | Ohio           | .40          |      |     |     |     |     | .75  | T.  |     |     | .37 | .20 |     |     |    |    | .24 |      | .16 |     |     |     |    |     | .60 | .01 | .15 |     |     |     |     | 2.88  |      |
| Chambersville   | Allegheny      | .02          | .79  | T.  | T.  |     |     | .07  | .08 |     |     | .54 | .05 |     |     |    |    | T.  | .29  | .13 |     |     |     |    |     | .02 | .22 | .30 | .01 |     | .04 |     | 2.56  |      |
| Claysville      | Ohio           |              | .86  | .02 | .02 |     |     | .58  | .19 |     |     | .30 | .07 |     |     |    |    | .53 | .21  |     |     |     |     |    |     | .38 | .12 | .05 |     |     | .01 | T.  | 3.34  |      |
| Cloeff          | Allegheny      | .58          | .35  | T.  |     |     |     | .05  | T.  |     |     | .46 | .13 |     |     |    |    | .11 | .24  |     |     |     |     |    |     | .22 | .04 | .05 |     |     |     |     | 2.23  |      |
| Clymer\|\| | Conemaugh      | .03          | 1.12 |     |     |     |     | .06  | T.  |     |     | .52 | .21 |     |     |    |    | .28 | .18  |     |     |     |     |    |     | T.  | .32 | .20 | T.  |     | T.  |     | 2.92  |      |
| Confluence\|\|\| | Youghiogheny   |              | .32  | .19 | T.  |     |     | T.   | .20 | .28 |     | .04 | .32 | T.  |     |    |    |     | 1.10 |     |     |     |     |    |     |     | .32 | .10 | T.  | T.  |     |     | 2.87  |      |
| Coraopolis\|\|\| | Ohio           |              |      |     |     |     |     |      |     |     |     |     |     |     |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |     |     |     | 3.90  |      |
| Corry           | Allegheny      |              |      | .80 |     |     |     |      | .44 | .07 | .24 | .34 | .15 |     |     |    |    | .28 | .38  | .02 |     |     |     |    | .01 | .70 | .20 | .25 |     | .02 |     |     |       | 3.62 |
| Coudersport     | Allegheny      | .76          | .05  | .03 |     |     |     | .78  | .05 |     | .10 | .52 | .01 |     |     |    |    | .16 | .44  | T.  |     |     |     |    |     | .53 | .13 | .04 |     |     |     | .02 |       | 3.17 |
| Derry           | Conemaugh      | .08          | .99  | .03 |     |     |     | .12  | .10 | .06 |     | .38 | .23 |     |     |    |    | .60 | .27  |     |     |     |     |    |     | .16 | .09 | .06 |     |     |     | T.  |       | 2.66 |
| Donora\|\|\| | Monongahela    |              | T.   | .83 | T.  |     | T.  | .20  | .10 |     | .09 | .27 | .06 |     |     |    |    | .46 | .32  |     |     |     |     |    | T.  | .06 | .25 | .02 | T.  |     | T.  | T.  | 1.79  |      |
| Ebensburg       | Conemaugh      | .05          | .42  | T.  |     |     |     | T.   | .12 |     |     | .15 | .04 |     |     |    |    | .60 | T.   |     |     |     |     |    |     | .05 | .04 | .30 | T.  |     |     | .02 |       | 3.00 |
| Elk Lick        | Youghiogheny   |              | .30  | .10 | .20 |     |     | .50  | .10 |     |     |     | .50 |     |     |    |    | .80 |      |     |     |     |     |    |     |     | .20 | .30 |     |     |     |     |       | 3.02 |
| Falls Creek     | Allegheny      | .09          | .95  |     |     |     |     | .12  |     |     |     | .57 | .14 |     |     |    |    | .43 | T.   |     |     |     |     |    |     |     | .45 | .24 |     |     |     | .03 |       | 3.12 |
| Franklin\|\|\| | Allegheny      |              | .60  | .08 | .06 |     |     |      | .55 |     |     | .40 | .20 | .06 |     |    |    | .24 | .05  |     |     |     |     |    |     | .14 | .48 | .12 | .08 |     |     | .06 |       | 2.97 |
| Freeport\|\|\| | do             |              | .70  | .03 | T.  |     |     | .03  | .65 | .06 |     | .30 | .22 | .06 |     |    |    | .31 | .21  | T.  | .01 |     |     |    |     | .01 | .32 | .02 | .04 |     | T.  |     |       | 3.13 |
| Greensboro      | Monongahela    |              | .72  | .10 | .01 | T.  |     | .01  | .27 | .26 |     | .15 | .22 | .01 |     |    |    | T.  | T.   | .98 |     | .08 |     |    |     |     | .24 | .08 | .13 | T.  |     | T.  | T.    | 3.00 |
| Greensburg      | Youghiogheny   | T.           | .98  | .04 | .01 |     |     | .15  | .15 |     |     | .35 | .07 |     |     |    |    | .55 | .25  |     |     | T.  |     |    |     | .24 | .08 | .13 | T.  |     |     |     | 2.35  |      |
| Greenville      | Beaver         | .17          | .18  | .02 | .06 |     |     | .44  | .23 |     |     | .24 | .08 |     |     |    |    | .03 | T.   | .03 |     |     |     |    |     | .62 | .04 | .24 | T.  |     |     | .04 |       | 2.29 |
| Grove City      | do             | T.           | .50  | .12 | .03 | .01 |     |      | .10 | .02 |     | .40 | .16 |     |     |    |    | .66 | .02  |     | .01 |     |     |    |     | .03 | .03 | .16 | T.  |     |     |     |       | 3.49 |
| Herr's Isl. Dam\|\|\| | Ohio           |              | .84  | .03 | .02 |     |     | .05  | .67 | .11 |     | .25 | .24 | .05 |     |    |    | .16 | .30  |     | .02 |     |     |    |     | T.  | .65 | .04 | .04 |     | .02 |     |       | 3.58 |
| Ingram          | do             | T.           | .94  | .02 | T.  |     |     | .85  | .17 |     |     | .39 | .13 |     |     |    |    | T.  | .37  | .09 |     |     |     |    |     | .48 | .05 | .08 | T.  | T.  | T.  | .01 |       | 1.72 |
| Irwin           | Youghiogheny   | T.           | .50  | T.  | T.  |     |     | .13  | .11 | .02 |     | .20 | .05 |     |     |    |    | .29 | .09  |     |     |     |     |    |     | .22 | .10 | .01 |     |     |     | T.  |       | 3.38 |
| Johnstown       | Conemaugh      | .05          | .75  | .13 | .05 |     |     |      | .35 |     |     | .15 | .70 |     |     |    |    | .01 | .55  | .29 |     |     |     |    |     | .14 | .06 | .09 | .04 |     | T.  | .02 |       | 3.48 |
| Kregar\|\|\| | Youghiogheny   | .84          | .10  | .05 | .01 |     |     | .12  | .27 |     | .06 | .33 | .04 |     |     |    |    | .01 | 1.03 | T.  |     |     |     |    |     | .27 | .30 | .05 | T.  | T.  |     |     |       | 3.08 |
| Lock No. 4\|\|\| | Monongahela    |              | .87  | .03 | T.  | T.  |     | .05  | .31 | .17 |     | .22 | .22 | T.  |     |    |    | .04 | .66  |     |     |     |     |    |     | .08 | .38 | .05 | T.  |     |     |     |       | 2.63 |
| Lycippus        | Conemaugh      |              | .87  | T.  |     |     |     | .21  | .10 | .03 |     | .27 | .10 |     |     |    |    | .55 | .22  |     |     |     |     |    |     | .07 | .15 | .06 |     |     |     |     |       | 3.62 |
| Meadville       | Allegheny      | .04          | .50  |     | .13 |     |     | .32  | .68 | T.  |     | .38 | .30 |     |     |    |    | .14 | T.   |     |     | T.  |     |    |     | T.  | .22 | .55 | .34 | .02 |     | T.  |       | 2.91 |
| Mount Lebanon   | Ohio           |              | .96  | T.  |     |     |     | .54  | .12 |     |     | .27 | .05 |     |     |    |    | .43 | T.   |     |     |     |     |    |     |     | .43 | .04 | .05 |     |     | .02 |       | 3.51 |
| New Castle\|\|\| | Beaver         | .01          | .35  | .10 | .02 | .01 | .01 | .05  | .85 |     | .03 | .37 | .15 | .03 |     |    |    | .31 | .17  |     |     |     |     |    |     | .28 | .57 | .08 | .04 |     | .05 | .01 |       | 1.92 |
| Newell          | Monongahela    |              | .40  |     | .02 |     |     | .05  | .21 |     |     | .26 |     |     |     |    |    | .58 |      |     |     |     |     |    |     |     | .30 | .15 |     |     |     |     |       | 3.09 |
| Parkers Landing\|\|\| | Allegheny      |              | .50  | .10 | .05 | T.  |     | T.   | .58 | T.  |     | .36 | .25 | T.  |     |    |    | .32 | .27  | T.  |     |     |     |    |     | T.  | .41 | .10 | .10 | T.  | .05 | T.  |       | 4.19 |
| Pennline\|\|\| | Beaver         |              | .41  | .12 | .15 | .03 |     |      | .38 | .14 |     | .30 | .23 | .03 |     |    |    | .47 | .02  |     | .05 |     |     |    |     | .39 | .77 | .57 | .11 | T.  | .02 | T.  |       | 2.82 |
| Pittsburgh**    | Ohio           | .28          | .41  | T.  | T.  |     |     | .69  | .10 | T.  |     | .23 | .08 |     |     |    |    | .02 | .39  | T.  |     | T.  |     |    | .01 | .49 | .05 | .06 | T.  | T.  | .01 |     |       | 3.14 |
| Ridgway         | Allegheny      |              | .75  | .10 | .10 | T.  |     |      | .19 | T.  |     | .35 | .27 | .07 |     |    |    |     | .17  | .32 |     |     |     |    |     |     | .02 | .60 | .03 | .05 | .02 | .10 | T.    | 3.19 |
| Saltsburg\|\|\| | Conemaugh      |              | .94  | .13 | .06 | .01 |     | .01  | .05 | .14 |     | .11 | .35 | .17 |     |    |    |     | .22  | .32 |     |     |     |    |     |     | .09 | .35 | .07 | .15 |     | .02 | T.    | 2.47 |
| Sharon\|\| | Beaver         |              | .20  | .10 | T.  |     |     |      | .75 |     |     | .25 | T.  |     |     |    |    | .21 | .15  |     |     |     |     |    |     | .16 | .63 | .02 |     |     |     |     |       | 2.69 |
| Somerset        | Youghiogheny   | T.           | .33  |     | .02 |     |     | .30  | .09 |     |     | .31 | .16 |     |     |    |    | .67 | .15  |     |     |     |     |    |     | .09 | .15 | .42 |     |     | T.  |     |       | 3.31 |
| Springdale\|\|\| | Allegheny      |              | .83  | .08 | .02 | T.  |     | .03  | .68 | .04 |     | .22 | .12 | .10 |     |    |    |     | .36  | .28 |     | .03 |     |    |     |     | .01 | .27 | .15 | .07 |     | .02 |       | 4.12 |
| Uniontown       | Monongahela    | .01          | 1.02 | .02 | .05 |     |     | .39  | .47 |     |     | .43 | .03 |     |     |    |    | .79 | .34  |     | .01 |     |     |    |     | .28 | .12 | .16 |     |     |     | T.  |       | 3.82 |
| Unity Reservoir\|\| | Youghiogheny   | .08          | 1.12 | .12 |     |     |     | .30  | .10 | .04 |     | .39 | .10 |     |     |    |    |     | .65  | .33 |     |     |     |    |     | .24 | .15 | .20 |     |     |     | T.  |       | 2.51 |
| Vandergrift\|\| | Conemaugh      |              | *    | .81 |     |     |     | .05  |     |     |     | .50 | .05 |     |     |    |    | .32 | .23  |     |     |     |     |    |     | .01 |     | .34 | .20 |     |     |     |       | 4.00 |
| Warren          | Allegheny      | .15          | .55  | .10 | .07 | .02 |     |      | .12 | .12 |     | .40 | .15 |     |     |    |    | .10 | .40  | .15 | .16 |     | .02 |    |     | .24 | .23 | .60 |     |     | .42 |     |       | 2.55 |
| Westford\|\|\| | Beaver         | .08          | .11  | .16 |     |     |     | 1.23 |     |     | .26 |     | .06 |     |     |    |    | .28 | T.   |     |     |     |     |    |     | .28 | T.  | .09 |     |     |     |     |       | 3.34 |
| West Newton\|\|\| | Youghiogheny   |              | .95  | .05 |     |     |     | .07  | .16 | .05 |     | .27 | .22 |     |     |    |    | .16 | .63  |     |     |     |     |    |     | .14 | .39 | .18 | .07 |     |     |     |       | 4.02 |
| Zellenople\|\|\| | Ohio           |              | .55  |     |     |     |     | .90  | .06 |     |     | .51 | .05 |     |     |    |    | .33 | .07  |     |     |     |     |    |     | .55 | .10 | .82 | .57 | .01 |     |     |       |      |
| Lake Drainage.  |                |              |      |     |     |     |     |      |     |     |     |     |     |     |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |     |     |     |       |      |
| Erie***         | Lake Erie      | .09          | .15  | .12 | .02 |     |     | .53  | .35 |     | T.  | .16 | .02 |     |     |    |    | .15 | .42  | .03 | T.  | T.  | T.  |    | .25 | .65 | .09 | .06 | T.  | .01 | T.  |     |       | 3.10 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

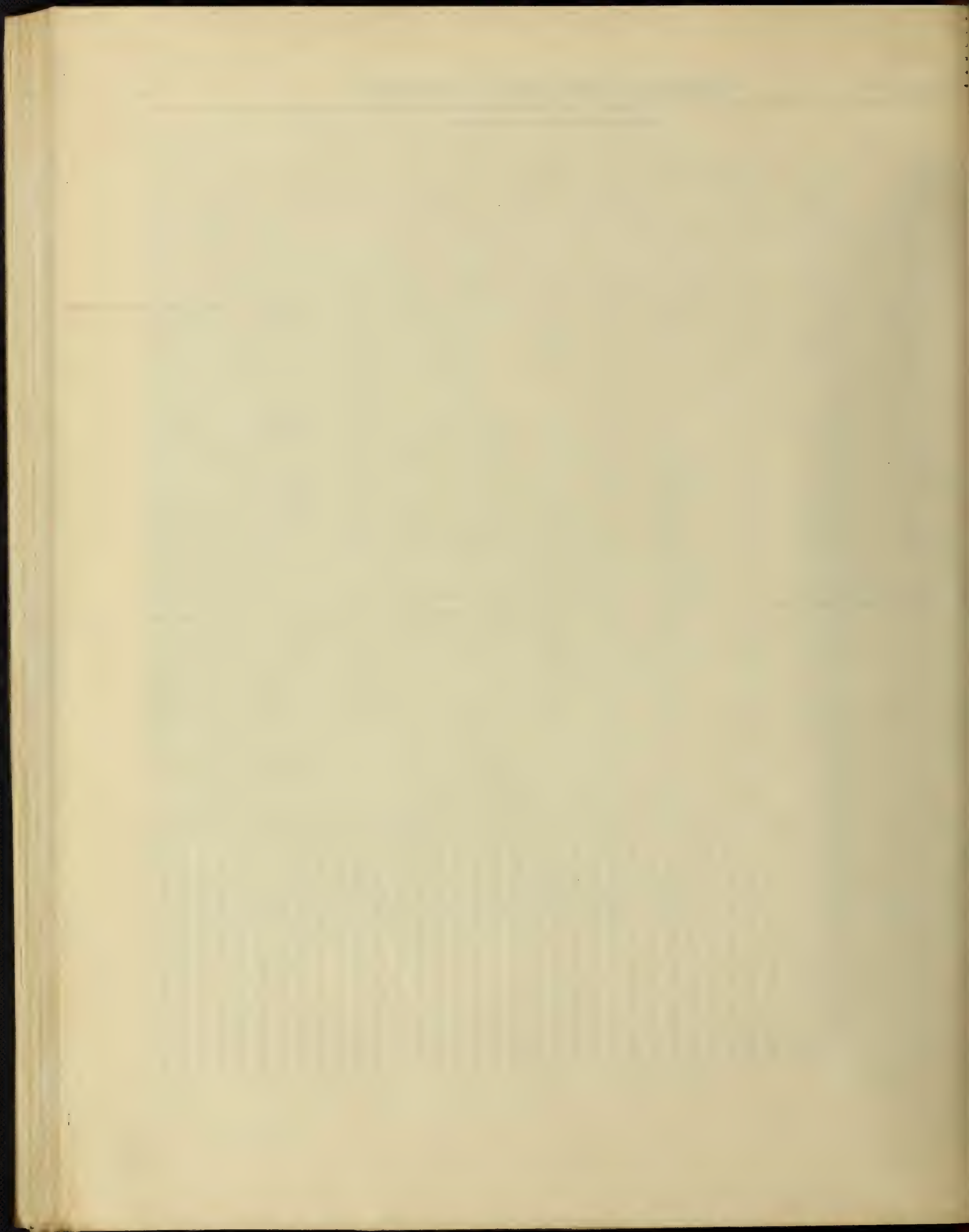
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah.  
‡ Mdt. to mdt.



Daily Temperatures for March, 1930

| Stations            | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |      |    |
|---------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|----|
| Allentown.....      | Maximum..... | 45 | 40 | 28 | 30 | 48 | 55 | 42 | 45 | 53 | 57 | 46 | 43 | 63 | 40 | 46 | 53 | 72 | 69 | 44 | 53 | 42 | 36 | 48 | 59 | 61 | 42 | 36 | 44 | 50 | 54 | 48   | 48.1 |      |      |    |
| Altoona.....        | Minimum..... | 24 | 27 | 16 | 19 | 21 | 23 | 32 | 35 | 35 | 36 | 35 | 33 | 32 | 28 | 22 | 25 | 34 | 38 | 33 | 31 | 33 | 18 | 21 | 27 | 33 | 38 | 30 | 30 | 26 | 28 | 33   | 28.9 |      |      |    |
| Beaver Dam.....     | Maximum..... | 46 | 40 | 26 | 26 | 47 | 51 | 46 | 38 | 44 | 55 | 46 | 35 | 59 | 52 | 45 | 64 | 68 | 68 | 57 | 52 | 52 | 33 | 47 | 63 | 64 | 54 | 31 | 37 | 44 | 40 | 44   | 47.5 |      |      |    |
| Bellefonte.....     | Minimum..... | 25 | 25 | 10 | 13 | 12 | 15 | 31 | 31 | 25 | 31 | 31 | 30 | 26 | 20 | 19 | 25 | 45 | 50 | 26 | 26 | 28 | 11 | 15 | 26 | 48 | 25 | 23 | 25 | 23 | 26 | 30   | 26.7 |      |      |    |
| Brookville.....     | Maximum..... | 52 | 52 | 27 | 31 | 47 | 51 | 51 | 43 | 46 | 56 | 56 | 42 | 56 | 57 | 51 | 69 | 69 | 68 | 38 | 55 | 55 | 43 | 44 | 65 | 65 | 43 | 33 | 40 | 46 | 46 | 49   | 49.9 |      |      |    |
| Butler.....         | Minimum..... | 28 | 26 | 13 | 18 | 20 | 23 | 33 | 36 | 25 | 29 | 35 | 29 | 29 | 23 | 25 | 28 | 35 | 35 | 30 | 25 | 28 | 14 | 15 | 29 | 42 | 26 | 25 | 30 | 24 | 32 | 25   | 26.9 |      |      |    |
| Carlisle.....       | Maximum..... | 47 | 40 | 22 | 29 | 48 | 51 | 44 | 42 | 49 | 56 | 48 | 38 | 58 | 42 | 47 | 64 | 68 | 60 | 38 | 52 | 49 | 35 | 47 | 63 | 64 | 35 | 32 | 40 | 46 | 44 | 46   | 46.6 |      |      |    |
| Catawissa.....      | Minimum..... | 26 | 16 | 14 | 16 | 18 | 20 | 35 | 35 | 27 | 33 | 32 | 28 | 27 | 22 | 18 | 25 | 33 | 38 | 28 | 25 | 16 | 14 | 15 | 25 | 32 | 26 | 26 | 25 | 24 | 27 | 23   | 24.8 |      |      |    |
| Chambersburg.....   | Maximum..... | 45 | 33 | 23 | 30 | 45 | 52 | 41 | 39 | 45 | 55 | 46 | 34 | 56 | 40 | 51 | 65 | 67 | 51 | 35 | 53 | 36 | 32 | 42 | 65 | 65 | 36 | 33 | 41 | 45 | 38 | 46   | 44.7 |      |      |    |
| Clearfield.....     | Minimum..... | 19 | 10 | -9 | 8  | 5  | 12 | 27 | 29 | 22 | 19 | 31 | 18 | 24 | 18 | 13 | 23 | 26 | 28 | 24 | 18 | 14 | 11 | 10 | 22 | 34 | 23 | 24 | 19 | 21 | 18 | 18.9 |      |      |      |    |
| Coatesville.....    | Maximum..... | 54 | 50 | 20 | 30 | 52 | 54 | 49 | 40 | 50 | 56 | 43 | 40 | 58 | 56 | 54 | 66 | 68 | 68 | 38 | 50 | 50 | 32 | 50 | 67 | 64 | 62 | 27 | 37 | 46 | 47 | 49   | 49.2 |      |      |    |
| Corry.....          | Minimum..... | 26 | 20 | 12 | 14 | 26 | 18 | 33 | 33 | 26 | 25 | 33 | 29 | 25 | 21 | 23 | 25 | 35 | 34 | 27 | 20 | 25 | 14 | 12 | 26 | 41 | 24 | 24 | 24 | 20 | 22 | 25   | 24.6 |      |      |    |
| Emporium.....       | Maximum..... | 47 | 45 | 29 | 35 | 55 | 52 | 50 | 43 | 54 | 61 | 60 | 46 | 65 | 63 | 49 | 62 | 74 | 71 | 59 | 59 | 58 | 45 | 52 | 63 | 66 | 64 | 37 | 46 | 54 | 53 | 51   | 53.8 |      |      |    |
| Franklin.....       | Minimum..... | 23 | 24 | 19 | 20 | 14 | 25 | 30 | 40 | 37 | 37 | 33 | 30 | 25 | 30 | 19 | 22 | 30 | 48 | 34 | 30 | 31 | 17 | 22 | 33 | 52 | 30 | 28 | 32 | 24 | 24 | 27   | 28.7 |      |      |    |
| Grovesville.....    | Maximum..... | 45 | 38 | 36 | 34 | 51 | 55 | 47 | 47 | 55 | 61 | 46 | 50 | 65 | 44 | 48 | 64 | 66 | 58 | 55 | 41 | 37 | 63 | 66 | 61 | 38 | 47 | 54 | 53 | 51 | 52 | 51   | 52.8 |      |      |    |
| Harrisburg.....     | Minimum..... | 20 | 18 | 13 | 15 | 23 | 22 | 31 | 37 | 32 | 26 | 35 | 31 | 25 | 24 | 16 | 22 | 29 | 49 | 30 | 24 | 33 | 14 | 19 | 28 | 40 | 29 | 27 | 25 | 26 | 24 | 26.2 |      |      |      |    |
| Hazleton.....       | Maximum..... | 47 | 46 | 30 | 35 | 54 | 54 | 49 | 46 | 53 | 60 | 56 | 44 | 67 | 61 | 46 | 61 | 72 | 66 | 58 | 55 | 41 | 47 | 63 | 66 | 61 | 38 | 47 | 54 | 53 | 51 | 52   | 51   | 52.8 |      |    |
| Johnstown.....      | Minimum..... | 23 | 20 | 17 | 19 | 16 | 26 | 31 | 39 | 35 | 36 | 34 | 30 | 28 | 30 | 22 | 23 | 31 | 70 | 67 | 41 | 56 | 54 | 39 | 52 | 70 | 66 | 40 | 39 | 42 | 49 | 45   | 51   | 51.9 |      |    |
| Lancaster.....      | Maximum..... | 55 | 53 | 23 | 33 | 48 | 57 | 55 | 46 | 48 | 59 | 55 | 47 | 63 | 57 | 58 | 71 | 70 | 67 | 41 | 56 | 54 | 39 | 52 | 70 | 66 | 40 | 39 | 42 | 49 | 45 | 51   | 51.9 |      |      |    |
| Lebanon.....        | Minimum..... | 28 | 20 | 8  | 15 | 33 | 25 | 38 | 33 | 25 | 32 | 32 | 29 | 36 | 52 | 24 | 41 | 40 | 39 | 28 | 27 | 29 | 16 | 13 | 36 | 36 | 23 | 16 | 28 | 23 | 30 | 22   | 27.4 |      |      |    |
| Lockport.....       | Maximum..... | 45 | 40 | 26 | 31 | 48 | 56 | 47 | 43 | 50 | 59 | 55 | 45 | 60 | 52 | 55 | 62 | 69 | 63 | 50 | 55 | 51 | 37 | 53 | 65 | 61 | 34 | 41 | 48 | 43 | 48 | 43   | 48   | 50.2 |      |    |
| Mechanicville.....  | Minimum..... | 21 | 23 | 11 | 14 | 9  | 18 | 27 | 33 | 25 | 26 | 32 | 32 | 33 | 19 | 14 | 35 | 34 | 45 | 25 | 25 | 28 | 14 | 14 | 22 | 42 | 20 | 26 | 30 | 27 | 20 | 25.3 |      |      |      |    |
| Millersburg.....    | Maximum..... | 46 | 43 | 34 | 32 | 50 | 56 | 46 | 47 | 55 | 60 | 47 | 44 | 68 | 57 | 45 | 57 | 73 | 71 | 60 | 54 | 47 | 36 | 47 | 61 | 70 | 56 | 37 | 46 | 52 | 58 | 48   | 51.7 |      |      |    |
| Monaca.....         | Minimum..... | 18 | 29 | 18 | 20 | 10 | 21 | 25 | 40 | 36 | 30 | 29 | 29 | 26 | 30 | 15 | 20 | 30 | 48 | 36 | 27 | 34 | 16 | 20 | 22 | 48 | 34 | 30 | 27 | 33 | 26 | 32   | 27.7 |      |      |    |
| Northumberland..... | Maximum..... | 38 | 29 | 34 | 46 | 39 | 49 | 40 | 40 | 40 | 54 | 50 | 30 | 38 | 40 | 38 | 54 | 55 | 55 | 34 | 28 | 19 | 17 | 13 | 15 | 28 | 34 | 24 | 10 | 21 | 15 | 25   | 18.5 |      |      |    |
| Pottsville.....     | Minimum..... | 12 | 11 | 10 | 9  | 8  | 10 | 12 | 20 | 10 | 26 | 32 | 12 | 15 | 12 | 12 | 26 | 41 | 28 | 20 | 19 | 17 | 13 | 15 | 28 | 34 | 24 | 10 | 21 | 15 | 25 | 25   | 18.5 |      |      |    |
| Reading.....        | Maximum..... | 45 | 45 | 25 | 25 | 43 | 49 | 42 | 40 | 45 | 53 | 44 | 35 | 54 | 46 | 46 | 62 | 68 | 55 | 34 | 51 | 49 | 31 | 45 | 63 | 63 | 40 | 35 | 39 | 45 | 42 | 45   | 45.3 |      |      |    |
| Scranton.....       | Minimum..... | 18 | 18 | 18 | 15 | 10 | 14 | 24 | 37 | 26 | 23 | 33 | 32 | 22 | 12 | 23 | 30 | 34 | 28 | 18 | 21 | 15 | 10 | 23 | 40 | 30 | 25 | 28 | 25 | 30 | 25 | 25   | 23.5 |      |      |    |
| Shenandoah.....     | Maximum..... | 50 | 32 | 23 | 28 | 39 | 43 | 44 | 34 | 38 | 55 | 49 | 35 | 49 | 27 | 27 | 37 | 62 | 65 | 36 | 32 | 56 | 30 | 28 | 36 | 40 | 35 | 36 | 32 | 37 | 42 | 36   | 45   | 39.7 |      |    |
| Union Deposit.....  | Minimum..... | 31 | 16 | 14 | 20 | 27 | 24 | 31 | 31 | 26 | 38 | 35 | 30 | 27 | 22 | 21 | 30 | 36 | 28 | 26 | 27 | 19 | 19 | 23 | 29 | 26 | 27 | 24 | 28 | 27 | 29 | 31   | 26.5 |      |      |    |
| Uniontown.....      | Maximum..... | 50 | 38 | 27 | 31 | 44 | 55 | 52 | 45 | 46 | 55 | 47 | 42 | 53 | 40 | 56 | 66 | 68 | 37 | 35 | 53 | 45 | 31 | 49 | 58 | 63 | 32 | 32 | 39 | 44 | 40 | 48   | 45.8 |      |      |    |
| Warren.....         | Minimum..... | 24 | 25 | 13 | 14 | 18 | 17 | 17 | 17 | 24 | 25 | 26 | 30 | 22 | 21 | 16 | 18 | 32 | 31 | 26 | 22 | 22 | 14 | 14 | 18 | 32 | 25 | 24 | 25 | 21 | 22 | 23   | 22.4 |      |      |    |
| York.....           | Maximum..... | 39 | 29 | 26 | 28 | 44 | 53 | 46 | 40 | 47 | 56 | 48 | 37 | 60 | 50 | 44 | 53 | 68 | 64 | 55 | 50 | 44 | 33 | 44 | 56 | 59 | 53 | 42 | 25 | 30 | 23 | 25   | 25.1 |      |      |    |
| York.....           | Minimum..... | 24 | 23 | 7  | 10 | 16 | 26 | 32 | 35 | 27 | 30 | 32 | 26 | 24 | 19 | 14 | 26 | 42 | 49 | 24 | 22 | 26 | 10 | 15 | 29 | 42 | 26 | 22 | 22 | 25 | 30 | 23   | 25.1 |      |      |    |
| York.....           | Maximum..... | 47 | 45 | 31 | 35 | 53 | 56 | 52 | 47 | 54 | 61 | 55 | 45 | 68 | 65 | 44 | 61 | 73 | 67 | 58 | 57 | 55 | 43 | 49 | 62 | 65 | 63 | 30 | 32 | 37 | 42 | 38   | 30.5 |      |      |    |
| York.....           | Minimum..... | 25 | 29 | 19 | 18 | 18 | 19 | 32 | 39 | 36 | 38 | 33 | 33 | 28 | 22 | 23 | 32 | 30 | 42 | 18 | 22 | 29 | 50 | 33 | 30 | 32 | 28 | 30 | 32 | 28 | 27 | 28   | 27   | 28   | 27.7 |    |
| York.....           | Maximum..... | 57 | 53 | 22 | 29 | 47 | 58 | 52 | 45 | 47 | 57 | 53 | 40 | 62 | 52 | 55 | 68 | 68 | 64 | 45 | 54 | 52 | 34 | 50 | 68 | 66 | 39 | 31 | 40 | 49 | 44 | 47   | 49.9 |      |      |    |
| York.....           | Minimum..... | 29 | 21 | 12 | 15 | 22 | 25 | 45 | 45 | 30 | 39 | 33 | 30 | 32 | 25 | 24 | 29 | 44 | 44 | 29 | 27 | 30 | 19 | 20 | 35 | 32 | 25 | 25 | 29 | 27 | 29 | 27   | 28.6 |      |      |    |
| York.....           | Maximum..... | 49 | 49 | 29 | 31 | 43 | 55 | 56 | 50 | 55 | 52 | 36 | 55 | 52 | 67 | 68 | 65 | 64 | 54 | 54 | 54 | 52 | 34 | 46 | 61 | 60 | 45 | 45 | 45 | 48 | 48 | 48   | 48   | 48   | 48   | 48 |
| York.....           | Minimum..... | 28 | 21 | 16 | 13 | 14 | 19 | 30 | 24 | 29 | 32 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 18 | 19 | 35 | 38 | 26 | 23 | 24 | 21 | 22 | 23   | 23.5 |      |      |    |
| York.....           | Maximum..... | 47 | 34 | 27 | 35 | 47 | 53 | 53 | 44 | 50 | 57 | 56 | 44 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64   | 64   | 64   | 64   |    |
| York.....           | Minimum..... | 33 | 20 | 16 | 14 | 18 | 24 | 32 | 38 | 34 | 35 | 37 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26   | 26   | 26   | 26   |    |
| York.....           | Maximum..... | 47 | 44 | 27 | 32 | 52 | 54 | 44 | 45 | 52 | 59 | 44 | 42 | 66 | 45 | 47 | 59 | 71 | 66 | 54 | 56 | 48 | 37 | 48 | 60 | 65 | 41 | 38 | 45 | 51 | 50 | 48   | 49.6 |      |      |    |
| York.....           | Minimum..... | 30 | 23 | 20 | 22 | 34 | 36 | 40 | 38 | 38 | 37 | 35 | 34 | 31 | 26 | 30 | 40 | 52 | 35 | 34 | 26 | 19 | 25 | 32 | 41 | 31 | 28 | 33 | 30 | 32 | 33 | 31   | 31.9 |      |      |    |
| York.....           | Maximum..... | 42 | 40 | 31 | 30 | 45 | 54 | 49 | 42 | 46 | 55 | 54 | 41 | 59 | 56 | 43 | 46 | 68 | 65 | 48 | 50 | 48 | 31 | 43 | 57 | 54 | 52 | 34 | 39 | 46 | 49 | 45   | 47.2 |      |      |    |
| York.....           | Minimum..... | 14 | 30 | 12 | 14 | 10 | 18 | 21 | 37 | 29 | 25 | 27 | 29 | 25 | 23 | 14 | 20 | 30 | 45 | 27 | 29 | 28 | 14 | 18 | 21 | 43 | 31 | 26 | 28 | 21 | 22 | 24   | 24.3 |      |      |    |
| York.....           | Maximum..... | 50 | 48 | 26 | 33 | 53 | 54 | 43 | 43 | 49 | 58 | 47 | 43 | 63 | 59 | 51 | 68 | 71 | 66 | 58 | 55 | 51 | 37 | 49 | 65 | 65 | 44 | 35 | 43 | 50 | 48 | 48   | 50.7 |      |      |    |
| York.....           | Minimum..... | 20 | 25 | 16 | 18 | 14 | 19 | 26 | 35 | 30 | 34 | 33 | 32 | 26 | 25 | 15 | 21 | 29 | 50 | 31 | 28 | 32 | 16 | 19 | 21 | 43 | 29 | 30 | 21 | 23 | 20 | 26.1 |      |      |      |    |
| York.....           | Maximum..... | 57 | 45 | 21 | 29 | 49 | 56 | 43 | 40 | 45 | 55 | 45 | 36 | 61 | 50 | 53 | 67 | 69 | 60 | 42 | 55 | 4  |    |    |    |    |    |    |    |    |    |      |      |      |      |    |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

Vol. XXXV.      APRIL, 1930.      No. 4

## GENERAL SUMMARY.

Temperatures were mostly seasonable during April, excepting a cold period on the 23d and 24th when they averaged about 15 degrees below the normal with freezing at night in all parts of the State. The rainfall averaged about four-fifths of the April normal with deficiencies reported from nearly all stations. The shortage accumulated during the last half of the month, there being a slight to moderate excess in most sections during the first two weeks. Light snows, or snow flurries, occurred in nearly all parts of the State with heavy snows in some of the northwestern counties. The heaviest snows were in Warren and Erie counties. The freezing of the 23d and 24th did much damage to orchard fruits and to garden truck. The extent of the fruit damage depended upon the stage of advancement in each locality. Peaches and cherries generally suffered the most as they were in full bloom, being in the last stages of the bloom in the southeastern counties, and just coming into full bloom elsewhere. Apples were in various stages of advancement from swelling buds to blossoms with resulting heavy losses in some sections, while others suffered very little. A large portion of the plums came into bloom after the freeze. The Federal-State Crop Reporting Service estimated a loss of more than one-half of the peaches, and about one-third of the apple crop. The losses in the fruit crop were much more serious than the losses of garden truck. Wheat and rye were generally in good condition at the end of the month, and pastures and meadows had made a good start. Oats seeding was nearly finished in the central and southern counties, and was in full swing in the northern tier of counties. Early varieties of field potatoes were mostly planted. Corn ground was being prepared for planting.

## TEMPERATURE.

The mean temperature for the State, as determined from reports of 87 stations, was 48.2° which is 0.6° colder than the normal. The highest monthly mean was 54.6° at Newell and the lowest 41.4° at Gouldsboro. The highest temperature recorded during the month was 92°, at Donora on the 11th, while the lowest, 9°, was registered at Corry on the 9th and also at Ebensburg on the 24th. The greatest daily range of temperature was 56° at Hyndman on the 10th and also at Franklin on the 11th.

## PRECIPITATION.

The average precipitation for the State, as shown by reports of 133 stations, was 2.71 inches, which is a deficiency of 0.66 inch as compared with the April normal. The greatest monthly amount was 4.43 inches at Emporium, and the least 0.66 inch at Ebensburg. The greatest amount recorded in any 24 consecutive hours was 2.52 inches at Gordon on the 6-7th.

Snowfall for the month averaged 1.1 inches, which is 1.7 inches less than normal. The greatest monthly amount was 11.2 inches at Warren and the greatest 24-hour snowfall was 8.6 inches at Corry on the 7th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |         |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|---------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |         |           |      |
|                   |                         |                          |                        | 8 a m.           | 12 noon. | 8 p. m. |                          | Average                     | Highest | Direction | Date |
| Erie.....         | 245.2                   | 401.2                    | 61                     | 74               | 73       | 76      | 8,790                    | 12.2                        | 44      | se.       | 17   |
| Harrisburg.....   | 214.3                   | 398.6                    | 54                     | 64               | 50       | 56      | 4,914                    | 6.8                         | 23      | w.        | 7    |
| Philadelphia..... | 249.9                   | 398.6                    | 63                     | 71               | 52       | 70      | 9,174                    | 12.7                        | 40      | nw.       | 2    |
| Pittsburgh.....   | 175.9                   | 399.9                    | 44                     | 73               | 57       | 57      | 7,086                    | 9.8                         | 40      | w.        | 1    |
| Reading.....      | 191.6                   | 398.6                    | 48                     | 70               | 46       | 54      | 4,673                    | 6.5                         | 21      | se.       | 6    |
| Scranton.....     | 228.2                   | 399.9                    | 57                     | 72               | 49       | 54      | 4,888                    | 6.8                         | 25      | sw.       | 7    |

\* For any five-minute period.      † By 3-cup anemometer.

## COMPARATIVE DATA FOR APRIL

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888..... | 47.2        | 92      | 12     | 2.52          | 4.23     | 0.99  | 14          | 10            | 6      | 8                      |
| 1889..... | 49.7        | 88      | 14     | 4.50          | 8.15     | 2.09  | 11          | 8             | 11     | 11                     |
| 1890..... | 48.6        | 85      | 12     | 3.46          | 5.50     | 1.75  | 13          | 9             | 8      | 8                      |
| 1891..... | 49.8        | 87      | 11     | 2.08          | 3.54     | 1.12  | 10          | 10            | 10     | 10                     |
| 1892..... | 46.9        | 85      | 14     | 2.04          | 4.43     | 0.61  | 10          | 10            | 10     | 10                     |
| 1893..... | 47.7        | 85      | 16     | 4.74          | 6.91     | 2.95  | 7           | 10            | 13     | 14                     |
| 1894..... | 48.0        | 83      | 5      | 3.62          | 10.00    | 1.69  | 11          | 11            | 11     | 11                     |
| 1895..... | 49.2        | 90      | 5      | 3.76          | 7.09     | 0.79  | 10          | 10            | 12     | 10                     |
| 1896..... | 53.0        | 97      | 4      | 1.75          | 3.39     | 0.20  | 10          | 10            | 10     | 8                      |
| 1897..... | 49.0        | 92      | 12     | 3.30          | 4.63     | 1.20  | 12          | 9             | 9      | 10                     |
| 1898..... | 45.6        | 84      | 4      | 2.93          | 5.34     | 1.36  | 9           | 13            | 13     | 12                     |
| 1899..... | 50.2        | 92      | 12     | 1.76          | 3.25     | 0.70  | 15          | 9             | 6      | 6                      |
| 1900..... | 49.2        | 90      | 13     | 1.57          | 2.80     | 0.60  | 14          | 8             | 8      | 8                      |
| 1901..... | 47.2        | 95      | 10     | 5.41          | 9.18     | 1.46  | 9           | 5             | 16     | 11                     |
| 1902..... | 48.0        | 91      | 20     | 3.56          | 7.14     | 1.34  | 8           | 10            | 12     | 9                      |
| 1903..... | 48.8        | 90      | 12     | 3.53          | 4.93     | 2.16  | 11          | 7             | 12     | 10                     |
| 1904..... | 44.7        | 86      | 9      | 3.45          | 6.42     | 1.34  | 8           | 8             | 14     | 13                     |
| 1905..... | 48.4        | 84      | 16     | 2.84          | 4.74     | 1.39  | 9           | 11            | 10     | 12                     |
| 1906..... | 50.0        | 89      | 12     | 3.13          | 6.96     | 0.75  | 14          | 8             | 8      | 9                      |
| 1907..... | 43.6        | 84      | 8      | 2.64          | 4.42     | 1.02  | 10          | 7             | 13     | 11                     |
| 1908..... | 49.8        | 89      | 0      | 3.51          | 6.31     | 1.85  | 12          | 8             | 10     | 12                     |
| 1909..... | 48.5        | 87      | 8      | 5.39          | 8.42     | 2.67  | 10          | 9             | 11     | 13                     |
| 1910..... | 52.6        | 89      | 18     | 5.07          | 8.50     | 2.21  | 10          | 9             | 11     | 13                     |
| 1911..... | 46.2        | 84      | 6      | 3.79          | 5.85     | 1.66  | 11          | 7             | 12     | 13                     |
| 1912..... | 50.2        | 83      | 18     | 4.39          | 7.31     | 2.41  | 10          | 7             | 13     | 15                     |
| 1913..... | 50.6        | 90      | 17     | 3.82          | 9.28     | 1.46  | 12          | 6             | 12     | 11                     |
| 1914..... | 47.3        | 93      | 5      | 4.66          | 7.50     | 1.90  | 10          | 8             | 12     | 14                     |
| 1915..... | 53.9        | 98      | 15     | 1.92          | 4.41     | 0.46  | 13          | 10            | 7      | 8                      |
| 1916..... | 48.0        | 87      | 16     | 3.65          | 7.40     | 1.65  | 9           | 9             | 12     | 14                     |
| 1917..... | 48.5        | 87      | 14     | 2.08          | 4.89     | 0.41  | 11          | 10            | 9      | 9                      |
| 1918..... | 48.2        | 81      | 12     | 4.53          | 2.41     | 0.30  | 10          | 9             | 11     | 14                     |
| 1919..... | 48.5        | 90      | 6      | 2.70          | 4.76     | 0.90  | 10          | 10            | 10     | 11                     |
| 1920..... | 46.0        | 87      | 8      | 4.39          | 11.34    | 2.44  | 9           | 9             | 12     | 16                     |
| 1921..... | 55.3        | 96      | 10     | 3.11          | 5.06     | 1.12  | 13          | 7             | 10     | 11                     |
| 1922..... | 50.1        | 91      | 11     | 3.17          | 6.10     | 1.28  | 12          | 9             | 9      | 12                     |
| 1923..... | 48.3        | 89      | -5     | 2.94          | 5.89     | 1.00  | 14          | 8             | 8      | 9                      |
| 1924..... | 46.5        | 82      | 5      | 4.15          | 7.52     | 1.77  | 13          | 7             | 10     | 12                     |
| 1925..... | 51.3        | 96      | 9      | 2.32          | 4.89     | 0.93  | 15          | 7             | 8      | 10                     |
| 1926..... | 44.9        | 84      | 9      | 2.03          | 4.35     | 0.85  | 12          | 9             | 9      | 9                      |
| 1927..... | 47.7        | 92      | 17     | 3.52          | 5.59     | 1.65  | 12          | 7             | 11     | 13                     |
| 1928..... | 46.0        | 88      | 11     | 5.50          | 9.82     | 2.11  | 12          | 8             | 10     | 13                     |
| 1929..... | 51.4        | 94      | 19     | 6.12          | 8.94     | 3.31  | 9           | 8             | 13     | 15                     |
| 1930..... | 48.2        | 92      | 9      | 2.71          | 4.43     | 0.66  | 11          | 8             | 11     | 10                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
|                   |                   |            |               |      |              |      |             |
| Port Jervis.....  | Delaware.....     | 3.7        | 6.0           | 8    | 2.8          | 30   | 18          |
| Phillipsburg..... | Delaware.....     | 4.2        | 7.0           | 8    | 2.9          | 28   | 22          |
| Mauch Chunk.....  | Lehigh.....       | -1.2       | -0.7          | 7    | -2.3         | 29   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 7.3        | 13.2          | 9    | 4.7          | 30   | 20          |
| Williamsport..... | Susquehanna.....  | 5.3        | 9.7           | 18   | 3.4          | 2    | 20          |
| Harrisburg.....   | Susquehanna.....  | 5.9        | 7.6           | 10   | 4.8          | 30   | 17          |
| Greensboro.....   | Monongahela.....  | 12.4       | 15.0          | 9    | 11.0         | 28   | 30          |
| West Newton.....  | Youghiogheny..... | 2.2        | 3.4           | 11   | 1.5          | 21   | 20          |
| Lock No. 4.....   | Monongahela.....  | 15.0       | 17.3          | 4    | 13.3         | 28   | 31          |
| Pittsburgh.....   | Ohio.....         | 13.6       | 15.5          | 20   | 11.7         | 30   | 25          |
| Beaver Dam.....   | Ohio.....         | 11.0       | 14.3          | 20   | 8.9          | 29   | 30          |



## Climatological Data for April, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Observers |        |                              |                        |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|-----------|--------|------------------------------|------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |           | Cloudy | Prevailing direction of wind |                        |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |           |        |                              |                        |
| Allentown          | Lehigh       | 254             | 19                      | 47.2                         | .....                     | 73      | 14   | 21     | 3    | 34                       | 2.86  | -0.98                     | 1.55                 | 0                         | 10                           | 17    | 7          | 6         | sw.    | John A. Frick.               |                        |
| Altoona            | Blair        | 1,615           | 43                      | 47.8                         | -0.4                      | 89      | 11   | 21     | 24   | 46                       | 3.26  | +0.39                     | 0.70                 | 0.3                       | 10                           | 16    | 9          | 5         | w.     | F. E. Rooney.                |                        |
| Arendtsville       | Adams        | 700             | 6                       | 46.8                         | .....                     | 79      | 11   | 25     | 1    | 42                       | 1.96  | .....                     | 1.38                 | T                         | 6                            | 12    | 9          | 9         | n.     | Dr. S. W. Frost.             |                        |
| Bellefonte         | Center       | 1,050           | 25                      | 46.2                         | .....                     | 82      | 11   | 23     | 3    | 46                       | 2.72  | -1.33                     | 1.32                 | 0.2                       | 11                           | 5     | 12         | 13        | w.     | U. S. Weather Bureau.        |                        |
| Bethlehem          | Northampton  | 364             | 44                      | 49.4                         | -2.5                      | 74      | 14   | 29     | 3    | 30                       | 2.99  | -0.16                     | 1.63                 | T                         | 9                            | 12    | 6          | 12        | nw.    | Lehigh University.           |                        |
| Carlisle           | Cumberland   | 467             | 64                      | 49.9                         | -2.3                      | 77      | 11   | 21     | 3    | 44                       | 2.49  | -0.84                     | 1.25                 | T                         | 9                            | 17    | 3          | 10        | nw.    | Prof. C. E. Miller.          |                        |
| Catawissa          | Columbia     | 520             | 34                      | 47.8                         | -3.5                      | 81      | 30   | 20     | 3    | 45                       | 3.56  | +0.15                     | 1.88                 | T                         | 8                            | 17    | 5          | 8         | .....  | H. H. Yetter.                |                        |
| Center Hall        | Center       | 1,272           | 34                      | 45.9                         | -3.0                      | 83      | 11   | 18     | 8    | 45                       | 1.25  | -1.89                     | 0.58                 | 0.5                       | 6                            | 18    | 5          | 7         | .....  | S. W. Smith.                 |                        |
| Chambersburg       | Franklin     | 580             | 31                      | 49.0                         | -0.8                      | 86      | 11   | 23     | 1    | 50                       | 2.28  | -0.56                     | 0.86                 | T                         | 8                            | 10    | 10         | 10        | sw.    | William B. Spear.            |                        |
| Clearfield         | Clearfield   | 1,120           | 21                      | 48.2                         | -0.1                      | 86      | 30   | 22     | 3    | 52                       | 4.37  | +0.96                     | 1.03                 | 3.0                       | 13                           | 9     | 11         | 10        | w.     | E. W. Hess.                  |                        |
| Coatesville        | Chester      | 380             | 43                      | 47.8                         | -3.0                      | 73      | 14   | 21     | 3    | 41                       | 2.70  | -0.93                     | 2.01                 | T                         | 7                            | 9     | 12         | 9         | nw.    | Prof. W. T. Gordon.          |                        |
| Colebrook          | Lebanon      | 560             | 21                      | 47.0                         | -2.9                      | 73      | 11   | 23     | 3    | 40                       | 2.98  | -0.99                     | 1.80                 | T                         | 8                            | 13    | 4          | 13        | nw.    | Wm. A. Rorer.                |                        |
| Emporium           | Cameron      | 1,050           | 43                      | 45.7                         | -1.4                      | 82      | 11   | 16     | 9    | 49                       | 4.43  | +1.10                     | 1.00                 | 0.5                       | 13                           | 8     | 12         | 10        | w.     | T. B. Lloyd.                 |                        |
| Ephrata            | Lancaster    | 380             | 30                      | 49.2                         | -0.8                      | 74      | 14   | 26     | 3    | 37                       | 2.12  | -1.43                     | 1.63                 | T                         | 7                            | 9     | 6          | 15        | w.     | Ira J. Keath.                |                        |
| Freeland           | Luzerne      | 1,970           | 15                      | 44.2                         | .....                     | 73      | 11   | 19     | 24   | 36                       | 4.25  | .....                     | 1.85                 | 1.0                       | 12                           | 6     | 11         | 13        | nw.    | Theo. Reichmann.             |                        |
| George School      | Bucks        | 190             | 24                      | 48.2                         | -1.9                      | 74      | 14   | 26     | 5    | 38                       | 1.90  | -1.70                     | 1.11                 | T                         | 11                           | 17    | 4          | 9         | s.     | Prof. N. W. Swayne.          |                        |
| Gettysburg         | Adams        | 553             | 57                      | 50.0                         | -0.4                      | 79      | 11   | 27     | 1    | 41                       | 2.56  | -1.04                     | 1.77                 | T                         | 11                           | 12    | 6          | 12        | s.     | Dr. Henry Stewart.           |                        |
| Gordon             | Schuylkill   | 840             | 27                      | 46.8                         | -1.1                      | 75      | 30   | 16     | 8    | 49                       | 4.11  | -0.55                     | 2.52                 | T                         | 12                           | 14    | 5          | 11        | sw.    | Capt. J. G. Johnson.         |                        |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 41.4                         | .....                     | 72      | 30   | 17     | 23   | 37                       | 3.82  | -0.88                     | 1.64                 | 1.2                       | 12                           | 14    | 5          | 11        | sw.    | Gustav Holtz.                |                        |
| Hamburg            | Berks        | 535             | 37                      | 48.0                         | -2.4                      | 74      | 14   | 20     | 3    | 39                       | 3.37  | -0.88                     | 1.40                 | T                         | 8                            | 11    | 10         | 9         | w.     | State Sanatorium.            |                        |
| Hanover            | York         | 600             | 27                      | 51.6                         | -1.4                      | 81      | 11   | 27     | 24   | 38                       | 2.66  | -0.63                     | 1.59                 | 0.2                       | 12                           | 13    | 5          | 12        | s.     | Thomas V. Cooper.            |                        |
| Harrisburg         | Dauphin      | 361             | 61                      | 49.4                         | -1.5                      | 74      | 14   | 30     | 24   | 29                       | 2.48  | -0.21                     | 1.66                 | T                         | 12                           | 7     | 12         | 11        | nw.    | U. S. Weather Bureau.        |                        |
| Hawley             | Wayne        | 900             | 12                      | 44.8                         | .....                     | 78      | 30   | 19     | 1    | 46                       | 2.73  | .....                     | 1.51                 | 0.2                       | 10                           | 12    | 11         | 7         | nw.    | Mrs. Della M. Pennell.       |                        |
| Holtwood           | Lancaster    | 200             | 15                      | 50.4                         | .....                     | 72      | 13   | 32     | 1    | 25                       | 2.12  | -0.59                     | 1.42                 | T                         | 8                            | 9     | 11         | 10        | nw.    | H. W. Lowy, C. E.            |                        |
| Huntingdon         | Huntingdon   | 650             | 43                      | 48.7                         | -0.9                      | 88      | 11   | 21     | 3    | 54                       | 3.28  | -0.09                     | 0.95                 | T                         | 13                           | 9     | 9          | 12        | nw.    | Prof. H. A. Conner.          |                        |
| Hyndman            | Bedford      | 977             | 18                      | 52.0                         | +1.1                      | 90      | 11   | 22     | 24   | 56                       | 2.70  | -0.87                     | 0.63                 | 0.4                       | 14                           | 10    | 4          | 16        | nw.    | Horace A. Sheavly.           |                        |
| Kylertown          | Clearfield   | 1,637           | .....                   | 46.1                         | .....                     | 81      | 11   | 17     | 24   | 43                       | 2.99  | .....                     | 0.99                 | 0.2                       | 13                           | 8     | 10         | 12        | nw.    | U. S. Bureau Plant Industry. |                        |
| Lancaster          | Lancaster    | 255             | 43                      | 48.4                         | -2.4                      | 76      | 14   | 20     | 3    | 46                       | 2.25  | -1.29                     | 1.64                 | 0                         | 5                            | 18    | 5          | 7         | se.    | Supt. of Water Works.        |                        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 43.6                         | -2.2                      | 70      | 30   | 17     | 24   | 40                       | 1.88  | -1.76                     | 0.52                 | 2.0                       | 7                            | 15    | 7          | 8         | sw.    | C. P. Darling.               |                        |
| Lebanon            | Lebanon      | 469             | 90                      | 49.4                         | -1.1                      | 75      | 14   | 27     | 3    | 37                       | 3.64  | +0.27                     | 2.35                 | T                         | 7                            | 17    | 6          | 7         | sw.    | S. B. Benzing.               |                        |
| Lewisburg          | Union        | 450             | 56                      | 48.6                         | +0.4                      | 78      | 14   | 22     | 3    | 41                       | 3.84  | +0.32                     | 1.39                 | T                         | 9                            | 7     | 14         | 14        | w.     | Prof. W. G. Owens.           |                        |
| Lock Haven         | Clinton      | 560             | 42                      | 51.0                         | +0.7                      | 79      | 12   | 24     | 3    | 41                       | 2.95  | -0.43                     | 0.90                 | T                         | 9                            | 9     | 11         | 10        | nw.    | Joseph Beaver.               |                        |
| Lykens             | Dauphin      | 680             | 16                      | 48.6                         | -2.1                      | 80      | 11   | 18     | 3    | 45                       | 2.99  | -0.28                     | 1.64                 | T                         | 9                            | 14    | 10         | 6         | nw.    | Susquehanna Collieries Co.   |                        |
| Mauch Chunk        | Carbon       | 600             | 41                      | 46.6                         | -2.2                      | 77      | 14   | 19     | 3    | 43                       | 3.41  | -0.51                     | 1.83                 | T                         | 7                            | 14    | 9          | 7         | s.     | R. K. Wintermute.            |                        |
| Millintown         | Juniata      | 445             | 27                      | 48.6                         | -1.2                      | 81      | 11   | 24     | 3    | 45                       | 2.04  | -1.87                     | 1.02                 | T                         | 10                           | 8     | 10         | 12        | w.     | Wellington Smith.            |                        |
| Montrose           | Susquehanna  | 1,720           | 28                      | 42.5                         | -1.6                      | 74      | 30   | 12     | 23   | 37                       | 3.14  | -0.36                     | 1.30                 | 2.0                       | 7                            | 15    | 3          | 12        | w.     | Silas Jagger.                |                        |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | .....                        | .....                     | 78      | 11   | 18     | 3    | 44                       | 3.89  | -0.64                     | 1.56                 | T                         | 8                            | 16    | 4          | 10        | nw.    | Cecil J. Hoskinson.          |                        |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 45.4                         | -2.8                      | 72      | 30   | 27     | 3    | 34                       | 1.93  | .....                     | 1.21                 | T                         | 8                            | 11    | 7          | 12        | nw.    | H. O. Hacker.                |                        |
| Narberth           | Montgomery   | 300             | 11                      | 47.5                         | .....                     | 72      | 30   | 27     | 3    | 34                       | 1.93  | .....                     | 1.21                 | T                         | 8                            | 11    | 7          | 12        | nw.    | Charles Decker.              |                        |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 47.0                         | -3.1                      | 74      | 14   | 21     | 3    | 41                       | 1.95  | .....                     | 0.93                 | 0                         | 8                            | 13    | 10         | 7         | w.     | North Springfield Water Co.  |                        |
| Palmerton          | Carbon       | 398             | 14                      | 46.2                         | .....                     | 76      | 14   | 22     | 1    | 41                       | 3.07  | .....                     | 1.98                 | T                         | 8                            | 4     | 13         | 13        | w.     | New Jersey Zinc Co.          |                        |
| Philadelphia       | Philadelphia | 114             | 59                      | 51.2                         | -0.9                      | 74      | 14   | 33     | 24   | 26                       | 1.64  | -1.41                     | 1.07                 | T                         | 11                           | 6     | 12         | 12        | nw.    | U. S. Weather Bureau.        |                        |
| Philadelphia Gtn.  | Philadelphia | 113             | 6                       | 51.0                         | .....                     | 74      | 14   | 33     | 24   | 26                       | 1.93  | .....                     | 0.96                 | 0                         | 9                            | 8     | 15         | 7         | .....  | Julius Bernstein.            |                        |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 49.6                         | -1.9                      | 72      | 30   | 33     | 24   | 29                       | 1.46  | -1.78                     | 0.91                 | T                         | 9                            | 11    | 7          | 5         | 18     | e.                           | Commandant, Navy Yard. |
| Phila-Point Breeze | Philadelphia | 90              | 5                       | 50.8                         | .....                     | 75      | 14   | 32     | 24   | 32                       | 1.62  | .....                     | 0.54                 | T                         | 10                           | 7     | 5          | 18        | s.     | Atlantic Refining Co.        |                        |
| Phoenixville       | Chester      | 100             | 20                      | 51.2                         | -1.0                      | 77      | 14   | 25     | 5    | 41                       | 2.66  | -0.83                     | 1.27                 | T                         | 6                            | 18    | 8          | 4         | s.     | North Springfield Water Co.  |                        |
| Quakertown         | Bucks        | 496             | 46                      | 47.2                         | -1.2                      | 74      | 14   | 19     | 5    | 41                       | 2.75  | -0.48                     | 1.10                 | T                         | 9                            | 7     | 12         | 11        | nw.    | John E. Benner.              |                        |
| Reading            | Berks        | 325             | 61                      | 49.4                         | -0.9                      | 74      | 14   | 29     | 24   | 31                       | 2.91  | -0.36                     | 1.95                 | T                         | 9                            | 7     | 13         | 10        | sw.    | U. S. Weather Bureau.        |                        |
| Seranton           | Lackawanna   | 805             | 36                      | 46.4                         | -1.7                      | 76      | 30   | 24     | 23   | 35                       | 2.52  | -0.29                     | 1.07                 | 0.7                       | 12                           | 5     | 12         | 13        | sw.    | U. S. Weather Bureau.        |                        |
| Selinsgrove        | Snyder       | 455             | 42                      | 48.5                         | -1.4                      | 77      | 11   | 24     | 8    | 38                       | 2.97  | -0.57                     | 1.25                 | T                         | 8                            | 14    | 7          | 9         | sw.    | Dr. George E. Fisher.        |                        |
| Shawmont           | Philadelphia | 51              | 35                      | 50.0                         | .....                     | 72      | 14   | 28     | 3    | 33                       | 1.90  | -1.27                     | 1.08                 | T                         | 7                            | 8     | 12         | 10        | nw.    | W. S. Guiles.                |                        |
| State College      | Center       | 1,217           | 46                      | 47.2                         | -0.5                      | 83      | 11   | 22     | 24   | 39                       | 2.99  | -0.29                     | 1.00                 | T                         | 11                           | 11    | 12         | 7         | w.     | C. A. Kern.                  |                        |
| Stroudsburg        | Monroe       | 500             | 16                      | 44.8                         | -4.1                      | 76      | 14   | 18     | 3    | 43                       | 3.41  | -0.37                     | 2.02                 | 0                         | 7                            | 7     | 5          | 18        | nw.    | State Normal School.         |                        |
| Towanda            | Bradford     | 754             | 36                      | 44.9                         | -1.7                      | 78      | 30   | 19     | 3    | 42                       | 2.69  | -0.24                     | 1.49                 | 0.3                       | 13                           | 8     | 6          | 16        | nw.    | Hiram E. Bull, C. E.         |                        |
| Wellsboro          | Tioga        | 1,419           | 66                      | 45.0                         | +0.4                      | 82      | 30   | 17     | 24   | 47                       | 2.50  | -1.08                     | 0.60                 | 1.0                       | 9                            | 18    | 4          | 8         | sw.    | George W. Hill.              |                        |
| West Chester       | Chester      | 455             | 93                      | 49.3                         | -0.4                      | 74      | 14   | 27     | 24   | 33                       | 1.96  | -1.82                     | 1.34                 | 0                         | 5                            | 13    | 11         | 6         | w.     | Joseph W. Belt.              |                        |
| Williamsport       | Lycoming     | 521             | 44                      | 48.4                         | -0.2                      | 79      | 14   | 23     | 3    | 39                       | 3.81  | +0.43                     | 1.35                 | T                         | 11                           | 13    | 6          | 11        | nw.    | Miss Veronica E. April.      |                        |
| York               | York         | 400             | 43                      | 50.2                         | -0.5                      | 77      | 13   | 24     | 3    | 44                       | 2.67  | -0.36                     | 1.80                 | T                         | 8                            | 9     | 15         | 6         | e.     | York Water Co.               |                        |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |           |        |                              |                        |
| Beaver Dam         | Beaver       | 700             | 38                      | 51.2                         | +1.1                      | 87      | 11   | 23     | 9    | 45                       | 2.08  | -1.05                     | 0.58                 | 0.5                       | 9                            | 6     | 12         | 12        | nw.    | U. S. Engineer.              |                        |
| Bradford           | McKean       | 1,460           | 15                      | 43.7                         | -1.8                      | 80      | 30   | 14     | 9    | 44                       | 3.51  | -0.27                     | 0.86                 | 6.5                       | 14                           | 6     | 14         | 10        | nw.    | Supt. Timber Pres. Plant.    |                        |
| Brookville         | Jefferson    | 1,173           | 40                      | .....                        | .....                     | 83      | 11   | 13     | 9    | 51                       | 4.08  | +1.17                     | 1.14                 | 3.5                       | 10                           | 15    | 7          | 8         | .....  | John Fawcett.                |                        |
| Butler             | Butler       | 1,152           | 9                       | 49.6                         | .....                     | 86      | 11   | 23     | 31   | 53                       | 2.98  | .....                     | 0.98                 | 1.0                       | 10                           | 11    | 10         | 9         | w.     | William C. Faust.            |                        |
| Chambersville      | Indiana      | 1,047           | .....                   | 48.7                         | .....                     | 86      | 11   | 17     | 24   | 53                       | 2.02  | .....                     | 0.46                 |                           |                              |       |            |           |        |                              |                        |



| Daily Precipitation for April, 1930 |                |              |     |     |     |    |      |      |     |     |     |    |     |     |     |     |      |      |       |     |    |     |     |     |     |     |     |    |    |     |     |     |       |      |
|-------------------------------------|----------------|--------------|-----|-----|-----|----|------|------|-----|-----|-----|----|-----|-----|-----|-----|------|------|-------|-----|----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-------|------|
| Stations                            | Drainage Basin | Day of month |     |     |     |    |      |      |     |     |     |    |     |     |     |     |      |      |       |     |    |     |     |     |     |     |     |    |    |     |     |     | Total |      |
|                                     |                | 1            | 2   | 3   | 4   | 5  | 6    | 7    | 8   | 9   | 10  | 11 | 12  | 13  | 14  | 15  | 16   | 17   | 18    | 19  | 20 | 21  | 22  | 23  | 24  | 25  | 26  | 27 | 28 | 29  | 30  | 31  |       |      |
| Atlantic Drainage.                  |                |              |     |     |     |    |      |      |     |     |     |    |     |     |     |     |      |      |       |     |    |     |     |     |     |     |     |    |    |     |     |     |       |      |
| Allentown                           | Lehigh         |              | .04 |     |     |    |      | 1.26 | .29 |     |     |    |     | .18 | .13 |     | .42  | .31  | .07   | .08 |    |     | .08 |     |     |     |     |    |    |     |     |     |       | 2.86 |
| Altoona                             | Juniata        |              | .42 |     | T.  |    | .52  | .40  | .10 |     |     |    |     | .09 |     |     | .50  | .20  | T.    |     |    | .65 | .33 | T.  | .05 |     |     |    |    | T.  | T.  | T.  |       | 3.26 |
| Ansonia                             | W. Br. Susq.   |              | .37 | T.  | .01 |    | .70  | .20  | T.  |     |     |    |     | .18 | .04 |     | .35  | .47  | .08   | .30 |    | .09 | T.  | T.  |     |     |     |    |    |     |     |     |       | 2.79 |
| Arendtsville                        | Lower Susq.    |              | T.  |     |     |    | 1.38 |      |     |     |     |    |     |     |     |     | .26  | .06  | .07   |     |    | .10 |     | T.  |     |     |     |    |    |     | .09 |     | 1.96  |      |
| Baker's Summit                      | Juniata        |              |     |     |     |    | .62  | .20  |     |     |     |    |     | .19 |     |     | .68  | .20  | .05   |     |    | .54 | .20 | .04 |     |     |     |    |    |     | .12 |     | 2.84  |      |
| Bellefonte                          | W. Br. Susq.   | .03          | .05 | T.  | T.  |    | .92  | .01  | T.  |     |     | T. |     | .07 |     | .06 | 1.27 | .03  | T.    | T.  |    | .22 | .03 | T.  | T.  |     |     |    |    | .03 |     |     | 2.72  |      |
| Bethlehem                           | Lehigh         |              | .02 |     |     |    | .01  | 1.62 |     |     |     | T. |     | .23 | .17 |     | .61  | .13  | .12   | T.  |    |     | .08 |     |     |     |     | T. |    |     |     |     | 2.99  |      |
| Bloserville                         | Lower Susq.    |              |     |     |     |    | .20  | .38  |     |     |     |    |     | .05 |     |     | .40  | .15  | .16   |     |    | .21 | .28 |     |     |     |     |    |    | .10 | T.  | .03 | 1.96  |      |
| Carlisle                            | Lower Susq.    | T.           | .04 | T.  | .02 |    | 1.25 | .24  |     |     |     |    | T.  | .08 | T.  |     | .23  | .26  | .22   |     |    | T.  | .20 | T.  | T.  |     |     |    |    |     |     |     | 2.49  |      |
| Catawissa                           | N. Br. Susq.   |              |     |     |     |    | 1.80 | .08  | T.  |     |     |    | .13 | .19 |     |     | .91  | .29  | .07   |     |    | .09 |     |     |     |     |     |    |    |     |     |     | 3.56  |      |
| Center Hall                         | Susquehanna    |              |     |     |     |    | .58  | .21  | .05 |     |     |    |     |     |     |     | .37  |      |       |     |    | .02 |     | T.  |     |     |     |    |    | .02 |     |     | 1.25  |      |
| Chambersburg                        | Potomac        |              |     |     |     |    | .86  | .45  |     |     |     |    |     |     |     |     | .14  | .22  | .09   |     |    | .24 | .14 | T.  | T.  |     |     |    |    |     | .14 |     | 2.28  |      |
| Clearfield                          | W. Br. Susq.   |              | .46 |     | .42 |    | .42  | .50  | .06 | .04 |     |    |     | .17 |     |     | 1.03 | .53  | .16   |     |    | .27 |     | .20 | T.  | T.  |     |    |    |     |     |     | 4.37  |      |
| Coatesville                         | Lower Del.     |              |     |     | .02 |    | .85  | 1.16 | T.  |     |     |    |     |     |     |     | .21  | .15  | .24   | .07 |    |     |     |     |     |     |     |    |    |     |     |     | 2.70  |      |
| Colebrook                           | Lower Susq.    |              |     | T.  | T.  |    | 1.80 | .58  | T.  |     |     |    |     | .06 |     |     | T.   | .22  | .15   | .12 |    | .02 | .03 | T.  |     |     |     |    |    |     |     |     | 2.98  |      |
| Conshohocken                        | Schuylkill     |              |     |     |     |    | .60  | .07  | T.  |     |     |    |     |     | .01 | .04 |      | .62  | .01   |     |    | T.  | .10 |     |     |     |     |    |    |     |     |     | 1.45  |      |
| Cressont                            | Juniata        |              | .26 |     |     |    | .27  | .60  |     |     |     |    |     | .20 |     |     | .28  | .05  |       |     |    | .83 |     | .04 |     |     |     |    |    |     | .06 |     | .06   | 2.65 |
| Doylestown                          | Lower Del.     |              |     |     |     |    | .06  | 1.59 | T.  |     |     |    |     | .14 | .19 |     | .42  | .08  | .21   |     |    | T.  | .12 |     |     |     |     |    |    |     |     |     | 2.81  |      |
| Driftwood                           | W. Br. Susq.   |              | .58 |     |     |    | .50  | 1.00 | T.  |     |     |    |     | .25 |     |     | .75  | .60  |       |     |    | .18 |     | .21 |     |     |     |    |    |     |     | .02 | 4.09  |      |
| Emporium                            | do.            |              | .31 | .14 | T.  |    | .46  | .37  | .05 |     |     |    | .09 | .37 |     |     | 1.00 | .44  | .51   | .41 |    | .11 | .17 | T.  | T.  |     |     |    |    |     |     |     | 4.43  |      |
| Ephrata                             | Lower Susq.    |              |     |     |     |    | .38  | 1.30 | T.  |     |     |    |     |     | .01 |     | .13  | .18  | .10   | T.  |    | T.  | .02 |     |     |     |     |    |    |     |     |     | 2.12  |      |
| Forest City                         | N. Br. Susq.   |              |     |     |     |    |      |      |     |     |     |    |     | .35 | .37 |     | .61  | .52  | .14   | .08 |    |     | .06 |     | .01 | T.  | T.  |    |    |     |     |     | 4.25  |      |
| Freeland                            | Lehigh         |              | .02 |     |     | T. |      | 1.85 | .21 | .03 |     |    |     | .05 | .09 |     | .32  | .02  | .04   | .13 |    |     | .08 |     |     |     |     |    |    |     |     |     | 1.90  |      |
| George School                       | Lower Del.     |              |     |     |     |    | .05  | 1.11 | .01 |     |     |    |     |     |     |     | .06  | .26  | .09   |     |    | .02 | .20 |     |     | .02 |     |    |    |     | .11 | .01 | 2.56  |      |
| Gettysburg                          | Potomac        |              |     | .02 |     |    | .73  | 1.04 | T.  |     |     |    |     |     |     |     | .21  | 1.01 | *     | .17 |    | .08 |     | .05 |     |     |     |    |    |     |     |     | 2.87  |      |
| Girardville                         | Lower Susq.    |              |     | .07 |     |    | 1.09 | T.   |     | .02 | .04 |    | .13 |     |     |     | .24  |      | .36   | .12 |    |     | T.  | .12 | T.  | T.  |     |    |    |     |     |     | 4.11  |      |
| Gordon                              | Lower Susq.    |              | .05 |     |     |    | 2.52 | T.   |     |     |     |    |     |     |     |     | .70  | .36  | .12   |     |    |     | .02 | .07 |     | .02 | .03 |    |    |     |     |     | 3.82  |      |
| Gouldsboro                          | Lehigh         |              | .13 |     |     |    | 1.64 | .09  |     |     |     |    |     | .50 | .39 |     | .48  | .22  | .23   |     |    | .02 | .07 |     | .02 | .03 |     |    |    |     |     |     | 2.02  |      |
| Graterford                          | Schuylkill     |              |     |     |     |    | .08  | 1.17 |     |     |     |    |     | .04 | .16 |     | .19  | .18  | .14   | .03 |    |     | .03 |     |     |     |     |    |    |     |     |     | 3.37  |      |
| Hamburg                             | Schuylkill     |              | .08 |     |     |    | 1.40 | .66  | T.  |     |     |    |     | .10 | .19 |     | .68  | .18  | .08   |     |    |     |     |     |     |     |     |    |    |     |     |     | 2.66  |      |
| Hanover                             | Lower Susq.    |              |     | .03 |     |    | .49  | 1.59 |     |     |     |    |     |     | .01 |     | .01  | .26  | .06   | .01 |    | .02 | .09 |     | .04 |     |     |    |    |     | .05 | T.  | 2.48  |      |
| Harrisburg                          | do.            |              | .03 | T.  | .02 |    | 1.60 | .06  | T.  |     |     |    |     | .13 | T.  | .03 | .36  | .02  | .08   |     |    | .10 | .04 |     |     |     |     |    |    |     |     |     | 2.73  |      |
| Hawley                              | Upper Del.     |              | .08 |     |     |    | 1.51 | .11  | T.  |     |     |    |     | .14 | .12 |     | .12  | .21  | .28   | .08 |    | .08 |     | T.  |     |     |     |    |    |     |     |     | 3.62  |      |
| Hollisterville                      | Upper Del.     |              | .23 |     |     |    | 1.61 | .28  | T.  |     |     |    | .03 | .22 | .23 |     | .34  | .31  | .25   | .05 |    | .07 | T.  | T.  |     |     |     |    |    |     | .03 |     | 2.12  |      |
| Holtwood                            | Lower Susq.    |              |     |     | .04 |    | 1.42 | .08  |     |     |     |    |     |     | T.  | T.  | .03  | .09  | .41   | T.  |    |     | .02 |     | T.  |     |     |    |    |     |     |     | 3.28  |      |
| Huntingdon                          | Juniata        |              | .05 |     | T.  |    | .95  | .11  |     |     |     |    |     | .03 | .08 | .01 | .41  | .20  | T.    | T.  |    | .60 | .45 | .01 | T.  |     |     |    |    | .09 | .29 |     | 2.70  |      |
| Hyndman                             | Potomac        |              | .28 | T.  |     |    | .63  | .28  | .05 |     |     |    |     | .27 |     |     | .09  | .13  | .11   | .17 |    | .56 | .25 | T.  | .03 |     |     |    |    | .04 | .03 | .05 | 2.99  |      |
| Kylertown                           | W. B. Susq.    |              | .41 |     |     |    | .18  | .05  | .05 |     |     |    |     | .27 |     |     | .99  | .40  | .05   | .06 |    | .15 | .27 |     | .01 |     |     |    |    | .10 |     |     | 2.84  |      |
| Lakeville                           | Upper Del.     |              | .13 |     |     |    | 1.57 | .13  |     |     |     |    |     | .12 | .10 |     | .16  | .21  | .31   | T.  |    | .24 |     |     |     |     |     |    |    |     |     |     | 2.25  |      |
| Lancaster                           | Lower Susq.    |              |     |     |     |    | 1.64 | .10  |     |     |     |    |     |     |     |     | .22  | .17  | .12   |     |    |     |     |     |     |     |     |    |    |     |     |     | 3.01  |      |
| Lansford                            | Lehigh         |              | T.  |     |     |    | 1.53 | .11  |     |     |     |    |     |     | .44 |     | .33  | .31  | .15   | .06 |    | .08 |     |     |     |     |     |    |    |     |     |     | 1.88  |      |
| Lawrenceville                       | N. Br. Susq.   |              | .10 |     | T.  |    | T.   | .52  | T.  |     |     |    |     | .10 |     |     | .05  | .33  |       | .18 |    |     |     |     |     |     |     |    |    |     |     |     | 3.64  |      |
| Lebanon                             | Lower Susq.    |              | T.  | T.  |     |    | .08  | 2.35 | T.  | T.  |     |    |     | T.  | .29 | T.  | .50  | .22  | .12   |     |    | T.  | .08 |     | T.  |     |     |    |    |     |     |     | 3.84  |      |
| Lewisburg                           | W. Br. Susq.   |              |     |     |     |    | .23  | 1.16 | T.  |     |     |    |     | .57 | .04 |     | 1.17 | .47  | .07   | .07 |    | .05 | .08 |     |     |     |     |    |    |     |     |     | 3.08  |      |
| Lloyd                               | do.            | .15          | T.  |     |     |    | .32  | .52  | .01 |     |     |    |     | .02 | .50 |     | .91  | .62  | .09   |     |    | .04 |     |     |     |     |     |    |    |     |     |     | 2.95  |      |
| Lock Haven                          | do.            |              | .07 |     |     |    | .39  | .51  | T.  |     |     |    |     | .10 |     |     | .90  | .55  |       | .02 |    | .06 |     | .35 | T.  | T.  |     |    |    |     |     |     | 2.99  |      |
| Lykens                              | Susquehanna    |              |     |     | .03 |    | .12  | 1.64 | T.  |     |     |    |     | .13 | .17 |     | .50  | .23  | .10   |     |    |     |     |     |     |     |     |    |    |     |     |     | 3.41  |      |
| Mauch Chunk                         | Lehigh         |              |     |     |     |    | .82  | 1.01 | T.  |     |     |    |     | .47 |     |     | .65  | .29  | .09   |     |    |     |     | .08 |     |     |     |    |    |     |     |     | 2.04  |      |
| Millintown                          | Juniata        |              |     | .03 |     |    | .27  | .75  | T.  |     |     |    |     | .07 |     |     | .30  | .23  | .08   | .01 |    | .12 | .23 | T.  |     |     |     |    |    |     |     |     | 3.14  |      |
| Montrose                            | N. Br. Susq.   |              |     |     | T.  |    | .21  | 1.30 | T.  |     |     |    |     | .41 | .40 |     |      |      | .60   | .07 |    |     |     |     | .15 |     |     |    |    |     |     |     | 2.80  |      |
| Morris Run                          | N. Br. Susq.   |              | .19 |     |     |    | .22  | 1.08 | .08 |     |     |    |     | .30 |     |     | .36  | .38  |       |     |    |     | .10 | T.  | .06 | .03 |     |    |    |     |     |     | 3.89  |      |
| Mount Pocono                        | Upper Del.     |              |     |     |     |    |      |      |     |     |     |    |     |     |     |     |      |      |       |     |    |     |     |     |     |     |     |    |    |     |     |     | 1.98  |      |
| Muncy Valley                        | W. Br. Susq.   |              | T.  |     |     |    | .09  | 1.56 | T.  |     |     |    |     | .93 |     |     | .62  | .47  | .02   | T.  |    | .05 |     | T.  |     |     |     |    |    |     |     |     | 1.95  |      |
| Narberth                            | Lower Del.     |              | .01 |     |     |    | .08  | 1.13 | T.  |     |     |    |     | T.  | T.  | T.  | .42  | .06  | .08   | .09 |    | T.  | .06 | T.  |     |     |     |    |    |     |     |     | 2.63  |      |
| Neshaminy                           | Lower Del.     |              |     |     |     |    | .93  | .15  |     |     |     |    |     | .10 |     |     | .42  | .10  | .05</ |     |    |     |     |     |     |     |     |    |    |     |     |     |       |      |



## Daily Precipitation for April, 1930—Continued from page 18

| Stations           | Drainage Basin    | Day of month |     |     |     |   |      |      |     |     |     |     |     |     |     |      |      |      |      |     |     |     |     |     |     |     |    |     |     |     |     |     | Total |      |
|--------------------|-------------------|--------------|-----|-----|-----|---|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|------|
|                    |                   | 1            | 2   | 3   | 4   | 5 | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15   | 16   | 17   | 18   | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26 | 27  | 28  | 29  | 30  | 31  |       |      |
| Ohio Drainage.     |                   |              |     |     |     |   |      |      |     |     |     |     |     |     |     |      |      |      |      |     |     |     |     |     |     |     |    |     |     |     |     |     |       |      |
| Beaver Dam\|\|\| | Ohio.....         | .40          |     |     |     |   |      | .29  | .16 | T   |     |     |     |     |     |      | .07  | .29  | .58  |     |     |     |     |     | .05 |     |    |     |     | .04 | .02 |     | 2.08  |      |
| Beaver Falls\|\|\| | Beaver.....       | .34          |     |     |     |   |      | .27  | .16 |     |     |     |     |     |     |      | .11  | .33  | T.   | .22 | T.  | T.  | .17 | .01 | .05 |     |    |     |     |     |     |     | 1.72  |      |
| Bradford.....      | Allegheny.....    | .42          | .12 |     |     |   | .12  | .30  | .20 |     |     |     | .12 | .10 |     |      | .86  | .28  | .46  |     |     | .20 | .10 |     | .15 | .08 |    |     |     | T.  |     |     | 3.51  |      |
| Brookville.....    | do.....           | .41          |     | T.  |     |   | .15  | .35  |     |     |     |     | .14 |     |     | .45  | .95  | .05  | 1.14 |     |     | .28 |     | T.  |     |     |    |     |     | .11 |     |     | 4.03  |      |
| Butler.....        | Ohio.....         | .46          |     |     |     |   |      | .41  | .06 |     |     |     |     |     |     |      | .16  | .55  | .98  |     | .10 | .13 |     | .10 | T.  |     |    |     |     | .03 |     |     | 3.98  |      |
| Chambersville..... | Allegheny.....    | .46          |     |     |     |   | .09  | .19  | .03 |     |     |     |     |     |     |      | .46  | .08  |      |     |     | .24 | .17 | .04 | T.  |     |    |     |     | .04 | .02 | .20 | 2.02  |      |
| Claysville.....    | Ohio.....         | .60          |     |     |     |   |      | .35  | .06 |     |     |     |     |     | .02 |      | .26  |      | .22  | .02 |     | .02 | .13 | .03 | .03 |     |    |     |     | .02 |     |     | 1.76  |      |
| Cloeff.....        | Allegheny.....    | .43          |     | .05 |     |   | .19  | .26  |     |     |     |     |     |     |     | .16  | .65  | .18  | .18  |     |     | .45 | .09 | T.  |     |     |    |     |     | .18 |     |     | 2.82  |      |
| Clymer\|\|\| | Conemaugh.....    | .48          |     |     | .06 |   | .18  | .26  | .02 |     |     |     |     |     |     | T.   | .52  | .18  | T.   | .14 |     | .12 | .26 | .05 |     |     |    |     |     | .10 | T.  | .31 | 2.68  |      |
| Confluence\|\|\| | Youghiogheny..... | .70          | T.  | T.  |     |   |      | .33  | .72 | T.  |     |     |     |     |     |      |      | .12  | T.   |     |     | T.  | .80 | T.  | .10 |     |    |     |     |     | .04 |     | 2.81  |      |
| Coraopolis\|\|\| | Ohio.....         |              |     |     |     |   |      |      |     |     |     |     |     |     |     |      |      |      |      |     |     |     |     |     |     |     |    |     |     |     |     |     | 3.66  |      |
| Corry.....         | Allegheny.....    | .44          |     | T.  |     |   | .02  | 1.03 | .04 |     |     | .02 |     |     |     |      | 1.01 | .41  | .21  |     |     | .13 | .01 | .16 | .18 |     |    |     |     |     |     |     |       |      |
| Coudersport.....   | Allegheny.....    | .48          |     | .03 |     |   | .53  | .47  | .20 |     |     |     |     | .20 |     | .65  | .66  | .07  | .50  | .01 |     | .17 |     | T.  |     |     |    |     | .02 |     |     |     | 3.99  |      |
| Derry.....         | Conemaugh.....    | .45          |     |     |     |   | .15  | .16  | .09 |     |     |     |     | T.  | .22 | T.   | .14  | T.   |      | .06 |     | .29 | .16 | .06 |     | .02 |    |     |     |     |     |     | 1.80  |      |
| Donora\|\|\| | Monongahela.....  | .40          |     | T.  |     |   |      | .05  | .15 | T.  |     |     |     |     | .05 | .02  | .15  | .03  |      | .10 |     | T.  | .52 |     | .04 |     |    |     |     |     | .02 |     | 1.53  |      |
| Ebensburg.....     | Conemaugh.....    | .10          |     |     |     |   | .10  | .02  | T.  |     |     |     |     | .06 |     |      | .04  | .01  |      |     |     | .05 | .06 | T.  |     |     |    |     |     |     |     |     | 0.66  |      |
| Elk Lick.....      | Youghiogheny..... | .20          |     |     |     |   | .44  | .04  | .04 |     |     |     |     |     |     |      | .10  | .12  | .10  | .33 |     | .58 |     | .20 | .10 |     |    |     |     | .25 |     |     | 2.50  |      |
| Falls Creek.....   | Allegheny.....    | .50          |     |     |     |   | .20  | .38  | .14 |     |     |     |     | .16 |     |      | .95  | .52  | .38  |     |     | .64 |     | T.  | .02 |     |    |     |     | .08 |     |     | 3.97  |      |
| Franklin\|\|\| | Allegheny.....    | .47          |     |     |     |   | .16  | .67  |     |     |     |     |     | .04 |     |      | 1.04 | .66  | .06  | .25 |     | .04 | .41 | T.  | .06 |     |    |     |     | .11 |     |     | 3.97  |      |
| do.....            | do.....           | .46          |     |     |     |   | .12  | .20  | T.  |     |     |     |     | .01 |     | .09  | .24  | .03  | T.   | T.  | .43 | T.  | .03 |     | .05 |     |    |     |     | .01 | .10 |     | 1.74  |      |
| Greensboro.....    | Monongahela.....  | .14          | T.  | .02 |     |   |      | T.   | .35 |     |     |     |     |     | T.  | .04  | T.   | T.   | T.   | .01 |     | .52 |     | .03 |     | .03 |    |     |     |     |     |     | 1.44  |      |
| Greensburg.....    | Youghiogheny..... | T.           | .49 |     |     |   | .04  | .13  | .05 |     | T.  |     |     | .01 | .25 | T.   | .21  | .01  | T.   | .03 |     | .29 | .08 | .04 | .01 |     |    |     |     | T.  |     | .34 | 1.98  |      |
| Greenville.....    | Beaver.....       | .33          | .21 |     |     |   | .25  | .45  | .23 |     |     |     |     |     |     |      | .95  | .98  | .10  | .33 |     | .58 |     | .20 | .10 |     |    |     |     | .14 |     |     | 3.87  |      |
| Grove City.....    | do.....           | .07          | .30 | T.  |     |   | .05  | .92  | .16 |     |     |     |     | .10 |     |      | .15  | .26  | .52  | .02 |     | .13 |     | .02 | .02 |     |    |     |     | .10 | .14 |     | 2.96  |      |
| Herr's Isl. Dam\|\|\| | Ohio.....         | .53          |     | T.  |     |   | T.   | .08  | .03 | T.  |     | T.  | T.  |     | .40 | .02  | .05  | .20  | T.   | .17 | .01 | T.  | .34 | T.  | .03 | T.  |    |     |     | .13 |     |     | 1.99  |      |
| do.....            | do.....           | .14          | .52 |     | .02 |   | .01  | .25  | .08 |     |     |     |     | .20 | .02 | .02  | .39  | .03  | .16  | T.  |     | .18 | .11 | .05 | .01 |     |    |     |     | .01 | .05 | .03 | 2.28  |      |
| Irwin.....         | Youghiogheny..... | .09          |     |     |     |   | .06  | .13  | .05 |     |     |     |     |     | .07 |      | .07  | .05  |      | .06 |     | .35 | .02 | T.  | .02 |     |    |     |     |     | .04 | .36 | 1.37  |      |
| Johnstown.....     | Conemaugh.....    | .09          | .60 | .04 |     |   | .43  | .23  | .14 |     |     |     |     | .38 | .02 | .06  | .48  |      | .15  | .02 |     | .60 | .08 | .12 | .10 | .01 |    |     |     | .02 | .12 | .30 | 3.99  |      |
| Kregar\|\|\| | Youghiogheny..... | .79          |     | T.  |     |   | .09  | .48  | .02 |     |     |     |     | .05 | .04 | .07  | .19  |      | .32  | T.  |     | .42 |     | .23 |     |     |    |     |     | T.  |     | .07 | 2.77  |      |
| Lock No. 4\|\|\| | Monongahela.....  | .50          |     |     |     |   |      | .04  | .21 | T.  |     |     |     |     | .05 | .08  | .14  | .09  | T.   | .39 | .01 | T.  | .90 | .02 | .04 |     |    |     |     |     | .03 |     | 2.50  |      |
| Lycippus.....      | Conemaugh.....    | .45          |     |     |     |   | .21  | .13  | .05 |     |     |     |     | .37 | T.  | .22  | .13  |      | .31  |     | .27 | .10 | .13 |     |     |     |    |     |     |     |     |     | 2.37  |      |
| Meadville.....     | Allegheny.....    | .12          | .28 |     |     |   | .03  | .53  | .24 |     |     |     |     |     |     | 1.00 | .44  | .17  |      |     |     | .08 | .08 |     | T.  |     |    |     |     |     | .08 | .01 | 2.97  |      |
| Mount Lebanon..... | Ohio.....         | .06          | .36 |     |     |   |      | .28  | .02 |     |     |     |     | .07 | .46 |      | .24  | .02  | .24  | T.  |     | .09 |     | .16 | .05 |     |    |     |     |     |     |     | 2.09  |      |
| New Castle\|\|\| | Beaver.....       | .42          |     | .06 | .01 |   | .01  | .64  | .08 | .01 | .02 |     |     |     |     |      | .19  | .41  | .05  | .63 | .01 | .01 | .12 | .03 | .06 | .01 |    |     |     | .13 | .03 |     | 2.93  |      |
| Newell.....        | Monongahela.....  | .55          |     |     |     |   |      | .13  |     |     |     |     |     |     |     |      | .18  |      |      |     |     | .18 |     | .02 | .02 |     |    |     |     |     |     |     | 1.08  |      |
| Parkers Landing\|\|\| | Allegheny.....    | .65          |     | T.  |     |   |      | .10  | .33 | T.  |     |     |     | .03 |     |      | .23  | .47  | T.   | .16 | T.  | T.  | .55 | T.  | T.  | T.  |    |     |     | T.  | .15 |     | 2.67  |      |
| Pennline\|\|\| | Beaver.....       | .36          |     |     |     |   | T.   | .66  | .20 | T.  |     |     |     |     |     |      | .71  | .62  | .03  | .02 |     |     | .08 | .11 |     | T.  |    | .02 |     | .05 |     |     | 2.78  |      |
| Pittsburgh***      | Ohio.....         | .51          | T.  | T.  |     |   | T.   | .14  | T.  |     |     | T.  |     |     | .41 | .02  | T.   | .19  | .01  | .23 | T.  |     | .19 | .08 | .02 | .03 |    |     |     | T.  | .04 | T.  | .73   | 2.60 |
| Ridgway.....       | Allegheny.....    | .64          |     | .01 |     |   |      | .13  | .46 | T.  |     |     |     | .01 | .02 |      | .69  | .78  | .04  | .72 |     |     | .18 | T.  | T.  | T.  |    |     |     | .03 | T.  |     | 3.71  |      |
| Saltsburg\|\|\| | Conemaugh.....    | .56          |     | T.  |     |   |      | .05  | .35 |     |     |     |     | .27 |     |      | .05  | .15  |      | .15 |     | T.  | .23 |     | .07 | T.  |    |     |     |     | .02 |     | 1.90  |      |
| Sharon\|\|\| | Beaver.....       | .37          |     |     |     |   |      | .63  | .13 |     |     |     |     | T.  |     |      | .18  | .58  | .04  | .14 | .01 |     | .09 |     | .03 |     |    |     |     | .05 | T.  |     | 2.25  |      |
| Somerset.....      | Youghiogheny..... | .38          |     |     |     |   | .45  | .28  | .12 |     |     |     |     | .03 | T.  | .26  | .13  | .04  | .01  |     |     | .58 | .18 | T.  | .03 |     |    |     |     | T.  | .01 | .12 | 2.62  |      |
| Springdale\|\|\| | Allegheny.....    | .50          |     |     |     |   |      | .07  | .21 | .01 |     |     |     |     |     | .29  |      | .08  | .26  | .01 | .03 | T.  | T.  | .68 |     | .06 | T. |     |     | .02 | .06 |     | 2.28  |      |
| Uniontown.....     | Monongahela.....  | .45          |     |     |     |   | .08  | .40  | .12 |     |     |     |     | .03 |     |      | .10  | .02  |      |     |     | .42 | .09 | .03 | .03 |     |    |     |     | T.  | .04 | .19 | 1.79  |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |     |     |     |   | .60  | .15  | .16 |     |     |     |     | T.  | .27 | T.   | .18  | .03  |      | .30 |     | .33 | .21 | .10 | .04 |     |    |     |     | T.  | .04 |     | 2.60  |      |
| Vandergrift\|\|\| | Conemaugh.....    | .51          |     |     |     |   |      | .19  |     |     |     |     |     |     |     | .01  | .04  |      |      |     |     | .40 | .05 |     | .04 |     |    |     |     |     |     |     | 1.42  |      |
| Warren.....        | Allegheny.....    | .15          | .25 |     | .02 |   | .04  | .64  | .10 |     |     |     | .05 | .15 |     |      | .80  | .28  | .20  | .06 |     | .15 | .12 | .08 | .30 |     |    |     |     | .03 |     |     | 3.42  |      |
| Westford\|\|\| | Beaver.....       | T.           |     |     |     |   | 1.52 | .07  |     |     |     |     |     |     |     | .94  | .50  | .05  |      |     |     |     |     |     |     |     |    |     |     | .09 |     |     | 3.17  |      |
| West Newton\|\|\| | Youghiogheny..... | .49          |     | T.  |     |   |      | .05  | .23 |     |     |     |     |     | .11 | .06  | .09  | .06  |      | .11 |     |     | .39 |     | .05 |     |    |     |     |     | .02 |     | 1.66  |      |
| Zelienople.....    | Ohio.....         | T.           | .32 |     |     |   | .07  | .33  |     |     |     |     |     |     |     |      | .21  | .32  | .19  |     |     |     |     |     | .15 | .22 |    |     |     | .12 | T.  | .30 | 2.23  |      |
| Lake Drainage.     |                   |              |     |     |     |   |      |      |     |     |     |     |     |     |     |      |      |      |      |     |     |     |     |     |     |     |    |     |     |     |     |     |       |      |
| Erie***            | Lake Erie.....    | .31          |     | T.  |     |   | .14  | .36  | .14 |     |     | .06 | .20 | .02 |     |      | .25  | 1.02 | .20  | .01 | .01 | T.  | .07 | T.  | .03 | .01 |    |     | T.  |     |     |     | 2.83  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah. † Mdt. to mdt.



Daily Temperatures for April, 1930

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....    | Maximum | 62 | 51 | 49 | 50 | 63 | 59 | 55 | 41 | 52 | 59 | 66 | 62 | 67 | 73 | 60 | 44 | 41 | 54 | 61 | 62 | 55 | 58 | 46 | 42 | 51 | 63 | 70 | 65 | 67 | 72   | 57.3 |      |
|                   | Minimum | 30 | 35 | 26 | 31 | 30 | 36 | 36 | 36 | 33 | 31 | 41 | 43 | 49 | 51 | 41 | 39 | 39 | 37 | 39 | 34 | 43 | 46 | 29 | 29 | 31 | 37 | 36 | 39 | 44 | 40   | 37.0 |      |
| Altoona.....      | Maximum | 64 | 58 | 58 | 56 | 64 | 60 | 45 | 38 | 51 | 72 | 89 | 85 | 82 | 72 | 56 | 45 | 43 | 59 | 58 | 64 | 58 | 51 | 40 | 32 | 47 | 60 | 68 | 60 | 62 | 78   | 59.2 |      |
|                   | Minimum | 31 | 28 | 27 | 34 | 27 | 39 | 32 | 28 | 24 | 30 | 43 | 60 | 47 | 51 | 37 | 40 | 37 | 40 | 45 | 31 | 44 | 40 | 25 | 21 | 30 | 31 | 32 | 46 | 45 | 45   | 36.3 |      |
| Beaver Dam.....   | Maximum | 62 | 62 | 56 | 56 | 67 | 67 | 53 | 45 | 54 | 74 | 87 | 87 | 81 | 80 | 66 | 58 | 65 | 75 | 74 | 63 | 64 | 64 | 46 | 37 | 51 | 57 | 66 | 66 | 77 | 77   | 64.6 |      |
|                   | Minimum | 30 | 28 | 29 | 30 | 27 | 43 | 34 | 31 | 23 | 30 | 42 | 47 | 48 | 52 | 39 | 47 | 47 | 52 | 43 | 34 | 51 | 38 | 24 | 25 | 34 | 29 | 32 | 48 | 50 | 48   | 37.8 |      |
| Bellefonte.....   | Maximum | 62 | 46 | 57 | 58 | 67 | 55 | 46 | 35 | 52 | 68 | 82 | 77 | 81 | 74 | 58 | 47 | 43 | 60 | 55 | 65 | 51 | 50 | 37 | 36 | 48 | 62 | 68 | 55 | 66 | 79   | 58.0 |      |
|                   | Minimum | 26 | 27 | 32 | 24 | 40 | 32 | 30 | 25 | 26 | 36 | 41 | 49 | 47 | 33 | 40 | 39 | 40 | 36 | 30 | 44 | 30 | 25 | 24 | 35 | 28 | 28 | 45 | 49 | 44 | 34   | 34.3 |      |
| Brookville.....   | Maximum | 62 | 51 | 58 | 55 | 70 | 61 | 45 | 35 | 49 | 72 | 83 | 78 | 79 | 63 | 48 | 51 | 75 | 55 | 62 | 61 | 49 | 36 | 34 | 47 | 60 | 68 | 52 | 74 | 82 | 64.9 |      |      |
|                   | Minimum | 23 | 21 | 20 | 23 | 20 | 32 | 28 | 21 | 13 | 22 | 32 | 38 | 31 | 27 | 42 | 38 | 45 | 29 | 37 | 43 | 43 | 42 | 35 | 52 | 65 | 67 | 65 | 83 | 82 | 64.9 |      |      |
| Butler.....       | Maximum | 62 | 55 | 60 | 59 | 72 | 66 | 53 | 38 | 55 | 78 | 86 | 82 | 82 | 80 | 72 | 66 | 57 | 76 | 74 | 66 | 66 | 62 | 42 | 35 | 52 | 65 | 67 | 65 | 83 | 82   | 64.9 |      |
|                   | Minimum | 28 | 27 | 23 | 30 | 23 | 35 | 31 | 29 | 24 | 25 | 45 | 46 | 45 | 40 | 35 | 45 | 45 | 46 | 41 | 29 | 35 | 35 | 25 | 25 | 32 | 25 | 26 | 32 | 50 | 48   | 34.2 |      |
| Carlisle.....     | Maximum | 66 | 61 | 52 | 62 | 67 | 64 | 52 | 44 | 58 | 67 | 77 | 75 | 76 | 76 | 68 | 55 | 45 | 48 | 60 | 68 | 60 | 57 | 50 | 44 | 64 | 74 | 76 | 68 | 69 | 77   | 62.7 |      |
|                   | Minimum | 22 | 35 | 21 | 39 | 24 | 30 | 39 | 36 | 30 | 28 | 34 | 38 | 44 | 52 | 38 | 42 | 40 | 42 | 48 | 38 | 34 | 45 | 28 | 25 | 38 | 40 | 45 | 50 | 48 | 41   | 37.1 |      |
| Catawissa.....    | Maximum | 62 | 54 | 56 | 56 | 69 | 59 | 55 | 43 | 55 | 68 | 77 | 74 | 76 | 78 | 63 | 48 | 44 | 61 | 59 | 67 | 65 | 60 | 43 | 41 | 50 | 67 | 72 | 63 | 65 | 81   | 61.0 |      |
|                   | Minimum | 25 | 29 | 20 | 28 | 24 | 44 | 41 | 34 | 28 | 25 | 38 | 36 | 45 | 46 | 32 | 40 | 38 | 37 | 40 | 29 | 40 | 43 | 26 | 24 | 34 | 30 | 36 | 46 | 48 | 40   | 34.7 |      |
| Chambersburg..... | Maximum | 66 | 63 | 50 | 61 | 63 | 61 | 52 | 42 | 57 | 69 | 86 | 74 | 74 | 70 | 64 | 54 | 45 | 54 | 59 | 63 | 60 | 57 | 50 | 45 | 56 | 65 | 68 | 65 | 66 | 75   | 37.0 |      |
|                   | Minimum | 23 | 35 | 25 | 38 | 25 | 35 | 41 | 36 | 29 | 29 | 36 | 41 | 43 | 53 | 42 | 40 | 40 | 48 | 29 | 41 | 42 | 29 | 25 | 35 | 38 | 32 | 48 | 46 | 45 | 45   | 66.5 |      |
| Claysville.....   | Maximum | 66 | 52 | 63 | 60 | 75 | 72 | 53 | 47 | 58 | 77 | 89 | 86 | 84 | 72 | 68 | 61 | 74 | 78 | 67 | 67 | 70 | 59 | 44 | 35 | 53 | 64 | 72 | 61 | 82 | 85   | 38.2 |      |
|                   | Minimum | 36 | 29 | 28 | 29 | 27 | 46 | 31 | 30 | 19 | 31 | 59 | 60 | 59 | 53 | 39 | 44 | 48 | 57 | 42 | 31 | 50 | 31 | 25 | 21 | 26 | 26 | 30 | 49 | 51 | 50   | 51   | 50   |
| Clearfield.....   | Maximum | 63 | 61 | 63 | 62 | 74 | 69 | 47 | 38 | 55 | 75 | 79 | 85 | 84 | 77 | 70 | 53 | 44 | 73 | 64 | 67 | 63 | 50 | 31 | 25 | 21 | 26 | 26 | 30 | 49 | 51   | 50   | 38.2 |
|                   | Minimum | 33 | 28 | 22 | 34 | 22 | 33 | 32 | 28 | 23 | 29 | 34 | 38 | 44 | 48 | 30 | 42 | 37 | 40 | 44 | 26 | 43 | 32 | 24 | 22 | 30 | 32 | 26 | 44 | 45 | 43   | 33.2 |      |
| Coatesville.....  | Maximum | 63 | 55 | 46 | 53 | 63 | 59 | 56 | 45 | 55 | 62 | 71 | 69 | 69 | 73 | 64 | 49 | 54 | 58 | 60 | 63 | 60 | 49 | 42 | 28 | 26 | 34 | 28 | 31 | 49 | 46   | 38   | 36.1 |
|                   | Minimum | 22 | 36 | 21 | 36 | 22 | 32 | 42 | 36 | 30 | 24 | 37 | 42 | 48 | 52 | 42 | 35 | 39 | 54 | 29 | 40 | 45 | 34 | 25 | 24 | 31 | 28 | 25 | 42 | 46 | 48   | 58.6 |      |
| Corry.....        | Maximum | 53 | 42 | 55 | 52 | 69 | 66 | 50 | 33 | 47 | 70 | 75 | 74 | 71 | 67 | 56 | 52 | 57 | 72 | 60 | 61 | 58 | 53 | 36 | 38 | 47 | 59 | 64 | 76 | 82 | 82   | 32.3 |      |
|                   | Minimum | 36 | 11 | 22 | 29 | 24 | 44 | 27 | 19 | 9  | 19 | 45 | 44 | 48 | 39 | 28 | 37 | 40 | 44 | 35 | 31 | 43 | 29 | 22 | 20 | 29 | 31 | 27 | 43 | 44 | 51   | 58.2 |      |
| Emporium.....     | Maximum | 61 | 46 | 56 | 53 | 67 | 61 | 45 | 34 | 48 | 68 | 82 | 70 | 77 | 72 | 60 | 55 | 45 | 69 | 58 | 62 | 52 | 50 | 34 | 35 | 46 | 61 | 65 | 61 | 70 | 82   | 33.2 |      |
|                   | Minimum | 25 | 21 | 21 | 36 | 20 | 33 | 32 | 18 | 16 | 22 | 33 | 45 | 49 | 45 | 28 | 40 | 40 | 43 | 42 | 30 | 45 | 34 | 25 | 24 | 31 | 28 | 25 | 42 | 46 | 48   | 52.8 |      |
| Erie.....         | Maximum | 52 | 39 | 50 | 49 | 60 | 58 | 41 | 36 | 45 | 74 | 68 | 57 | 59 | 58 | 40 | 44 | 60 | 72 | 48 | 52 | 50 | 41 | 36 | 38 | 43 | 48 | 59 | 58 | 60 | 76   | 80   | 37.2 |
|                   | Minimum | 30 | 30 | 31 | 34 | 35 | 41 | 29 | 28 | 31 | 38 | 45 | 44 | 43 | 39 | 31 | 32 | 39 | 48 | 38 | 37 | 41 | 29 | 27 | 28 | 36 | 34 | 41 | 48 | 50 | 58   | 59.5 |      |
| Franklin.....     | Maximum | 59 | 45 | 57 | 54 | 71 | 57 | 42 | 39 | 51 | 73 | 84 | 77 | 78 | 70 | 62 | 50 | 59 | 76 | 53 | 65 | 59 | 43 | 38 | 37 | 46 | 59 | 65 | 60 | 76 | 80   | 32.6 |      |
|                   | Minimum | 26 | 28 | 24 | 30 | 24 | 26 | 37 | 28 | 19 | 21 | 28 | 45 | 48 | 44 | 29 | 32 | 44 | 43 | 39 | 37 | 37 | 34 | 25 | 24 | 28 | 26 | 28 | 36 | 45 | 43   | 55.0 |      |
| Freeland.....     | Maximum | 56 | 52 | 54 | 43 | 63 | 56 | 49 | 34 | 45 | 60 | 73 | 66 | 69 | 73 | 64 | 50 | 39 | 60 | 52 | 57 | 51 | 52 | 39 | 33 | 41 | 57 | 66 | 62 | 63 | 72   | 33.5 |      |
|                   | Minimum | 33 | 27 | 23 | 31 | 27 | 35 | 32 | 26 | 23 | 28 | 41 | 42 | 45 | 50 | 30 | 35 | 30 | 32 | 42 | 31 | 38 | 37 | 20 | 19 | 28 | 33 | 42 | 44 | 38 | 43   | 61.2 |      |
| Gettysburg.....   | Maximum | 65 | 63 | 49 | 59 | 65 | 61 | 55 | 45 | 55 | 66 | 79 | 71 | 71 | 73 | 66 | 57 | 45 | 56 | 56 | 66 | 62 | 55 | 54 | 44 | 56 | 64 | 71 | 67 | 67 | 73   | 38.9 |      |
|                   | Minimum | 27 | 36 | 27 | 36 | 29 | 39 | 44 | 36 | 30 | 33 | 38 | 44 | 46 | 54 | 42 | 40 | 40 | 49 | 36 | 43 | 45 | 29 | 28 | 35 | 40 | 37 | 51 | 46 | 44 | 44   | 63.5 |      |
| Greensburg.....   | Maximum | 65 | 59 | 59 | 57 | 73 | 68 | 48 | 43 | 54 | 76 | 87 | 83 | 83 | 66 | 62 | 56 | 60 | 74 | 70 | 64 | 65 | 54 | 42 | 36 | 48 | 69 | 69 | 67 | 78 | 80   | 41.0 |      |
|                   | Minimum | 34 | 30 | 39 | 40 | 46 | 49 | 30 | 28 | 24 | 30 | 56 | 56 | 53 | 54 | 53 | 44 | 46 | 50 | 44 | 33 | 49 | 40 | 29 | 23 | 31 | 32 | 33 | 49 | 51 | 54   | 61.9 |      |
| Grove City.....   | Maximum | 59 | 47 | 57 | 54 | 69 | 65 | 50 | 40 | 50 | 78 | 83 | 82 | 79 | 74 | 66 | 57 | 59 | 74 | 64 | 63 | 63 | 55 | 46 | 42 | 49 | 60 | 70 | 70 | 75 | 73   | 36.6 |      |
|                   | Minimum | 34 | 25 | 28 | 33 | 26 | 43 | 31 | 27 | 23 | 38 | 48 | 46 | 54 | 49 | 33 | 44 | 43 | 46 | 38 | 30 | 47 | 32 | 32 | 24 | 28 | 26 | 31 | 44 | 49 | 50   | 60.5 |      |
| Hamburg.....      | Maximum | 61 | 60 | 54 | 60 | 64 | 60 | 56 | 49 | 54 | 61 | 67 | 64 | 68 | 74 | 72 | 65 | 45 | 56 | 59 | 64 | 60 | 57 | 53 | 41 | 51 | 63 | 69 | 67 | 68 | 72   | 35.5 |      |
|                   | Minimum | 24 | 34 | 20 | 28 | 29 | 40 | 39 | 33 | 30 | 32 | 35 | 41 | 46 | 47 | 39 | 31 | 37 | 36 | 50 | 32 | 40 | 43 | 28 | 26 | 34 | 37 | 30 | 44 | 45 | 36   | 58.1 |      |
| Harrisburg.....   | Maximum | 63 | 53 | 47 | 57 | 64 | 54 | 51 | 40 | 55 | 64 | 73 | 71 | 72 | 74 | 59 | 46 | 42 | 54 | 57 | 65 | 58 | 56 | 43 | 39 | 52 | 64 | 69 | 62 | 66 | 73   | 40.8 |      |
|                   | Minimum | 34 | 36 | 32 | 40 | 35 | 40 | 37 | 33 | 38 | 44 | 44 | 48 | 55 | 44 | 41 | 39 | 38 | 48 | 44 | 46 | 37 | 31 | 30 | 39 | 40 | 42 | 52 | 50 | 46 | 48   | 58.5 |      |
| Hawley.....       | Maximum | 59 | 56 | 53 | 51 | 66 | 62 | 55 | 54 | 47 | 58 | 65 | 61 | 68 | 73 | 69 | 57 | 50 | 62 | 60 | 59 | 57 | 53 | 42 | 38 | 42 | 55 | 67 | 69 | 68 | 78   | 31.0 |      |
|                   | Minimum | 19 | 30 | 20 | 28 | 20 | 29 | 34 | 29 | 27 | 22 | 34 | 38 | 45 | 45 | 29 | 36 | 34 | 30 | 20 | 37 | 24 | 21 | 32 | 33 | 26 | 43 | 29 | 36 | 43 | 48   | 61.6 |      |
| Huntingdon.....   | Maximum | 65 | 63 | 59 | 60 | 69 | 62 | 49 | 39 | 55 | 71 | 88 | 84 | 74 | 61 | 48 | 49 | 58 | 59 | 66 | 54 | 52 | 47 | 37 | 53 | 59 | 70 | 62 | 68 | 83 | 72   | 35.8 |      |
|                   | Minimum | 22 | 32 | 21 | 39 | 28 | 32 | 35 | 33 | 29 | 24 | 34 | 42 | 49 | 49 | 36 | 41 | 40 | 42 | 49 | 27 | 42 | 44 | 28 | 25 | 34 | 33 | 29 | 47 | 42 | 42   | 62.1 |      |
| Johnstown.....    | Maximum | 67 | 49 | 62 | 61 | 75 | 55 | 47 | 41 | 57 | 77 | 87 | 85 | 78 | 63 | 56 | 51 | 45 | 74 | 57 | 68 | 58 | 56 | 43 | 35 | 47 | 66 | 72 | 78 | 74 | 83   | 39.2 |      |
|                   | Minimum | 29 | 29 | 30 | 37 | 30 | 41 | 32 | 31 | 26 | 31 | 49 | 59 | 58 | 53 | 41 | 43 | 42 | 44 | 45 | 33 | 54 | 39 | 33 | 25 | 34 | 33 | 34 | 51 | 49 | 50   | 63.0 |      |
| Lancaster.....    | Maximum | 63 | 62 | 52 | 58 | 67 | 62 | 58 | 51 | 58 | 64 | 72 | 70 | 71 | 76 | 71 | 57 | 47 | 62 | 61 | 67 | 67 | 62 | 60 | 47 | 58 |    |    |    |    |      |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. MAY, 1930. No. 5

## GENERAL SUMMARY.

May was abnormally warm and dry. The first decade was intensely warm, and a large temperature surplus accumulated. This was largely depleted during the last week which was unseasonably cold with frost or freezing in nearly all parts of the State. The middle of the month was mostly seasonable. The first half of the month was very dry, and no general rains occurred until the 14th, when a rainy week set in. During this drought, forest fires broke out in great numbers, and the damage was the greatest that had been experienced in recent years. The drought stunted the growth of crops generally, but considerable recovery was made from the 14th to the 20th inclusive when daily rains occurred at most places. Pastures and meadows suffered most from the drought, and became short and thin. Alfalfa was fair to good in most places, but the other grasses, including clover, were mostly poor. Wheat continued in a fairly healthy condition, but headed on short straw. Frosts and freezing near the close of the month caused serious damage to crops and to orchard fruits. Corn was badly frozen in some sections, and it was estimated that, for the State as a whole, about one-fourth of the crop would need to be replanted. Truck crops were badly damaged, excepting the extreme southeastern corner of the State, and where no actual freezing occurred the growth was slowed up materially. Orchard fruits had suffered from frosts during the blooming period in April, and were further depleted by this freeze. In some localities practically all of the fruit dropped from the trees. For the State as a whole it was estimated that apples would yield about one-half of a normal crop, while peaches would not exceed a third of a crop. Sunshine for the month was above the normal in all districts.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 61.2°, which is 1.7° above the normal for May. The highest monthly mean was 67.0° at Holtwood, and the lowest, 54.6° at Gouldsboro. The highest temperature recorded during the month was 99° at Phoenixville on the 7th, while the lowest, 25°, was recorded on the 27th at Ridgway, and on the 30th at Somerset. The greatest daily range of temperature for the month was 56°, at Clearfield on the 4th, and at Lancaster on the 5th.

## PRECIPITATION.

The average precipitation for the State, based on the reports from 135 well-distributed stations, was 3.03 inches, or a deficiency of 0.96 inch below the normal. The greatest monthly total was 6.39 inches at Phoenixville, while the least, 1.03 inches, was reported from Meadville. The greatest amount reported in any 24 consecutive hours was 2.70 inches at Phoenixville on the 24-25th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |         |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|---------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |         |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | Highest | Direction |
| Erie.....         | 306.3                   | 451.8                    | 68                     | 74               | 70       | 72      | 8,569                    | 11.5                        | 40      | sw.       |
| Harrisburg.....   | 321.8                   | 446.2                    | 72                     | 68               | 49       | 48      | 4,802                    | 6.5                         | 25      | sw.       |
| Philadelphia..... | 329.7                   | 446.2                    | 74                     | 65               | 47       | 59      | 9,141                    | 12.3                        | 38      | sw.       |
| Pittsburgh.....   | 281.2                   | 449.0                    | 63                     | 74               | 57       | 52      | 6,712                    | 9.0                         | 36      | sw.       |
| Reading.....      | 287.3                   | 446.2                    | 64                     | 63               | 44       | 49      | 4,340                    | 5.8                         | 20      | nw.       |
| Scranton.....     | 255.8                   | 449.0                    | 57                     | 66               | 45       | 55      | 4,903                    | 6.6                         | 29      | sw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR MAY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 57.3        | 91      | 24     | 4.24          | 8.41     | 2.26  | .....       | .....         | .....  | 16                     |
| 1889..... | 60.4        | 96      | 25     | 5.91          | 12.41    | 2.51  | .....       | .....         | .....  | 11                     |
| 1890..... | 58.5        | 89      | 23     | 6.71          | 12.41    | 2.96  | 7           | 11            | 13     | 15                     |
| 1891..... | 57.3        | 93      | 20     | 2.12          | 4.41     | 0.31  | 10          | 10            | 11     | 8                      |
| 1892..... | 58.5        | 91      | 28     | 5.70          | 9.30     | 3.77  | 7           | 10            | 14     | 16                     |
| 1893..... | 57.9        | 93      | 26     | 5.54          | 9.20     | 2.92  | 11          | 8             | 12     | 12                     |
| 1894..... | 60.8        | 92      | 27     | 8.88          | 15.02    | 2.72  | 9           | 8             | 14     | 16                     |
| 1895..... | 60.6        | 110     | 22     | 2.68          | 6.46     | 0.86  | 13          | 10            | 8      | 9                      |
| 1896..... | 65.4        | 98      | 31     | 2.85          | 6.30     | 1.19  | 10          | 12            | 9      | 10                     |
| 1897..... | 57.7        | 88      | 25     | 5.24          | 10.05    | 1.71  | 11          | 10            | 10     | 12                     |
| 1898..... | 60.0        | 94      | 22     | 5.11          | 10.15    | 2.79  | 8           | 9             | 14     | 15                     |
| 1899..... | 61.1        | 100     | 24     | 3.82          | 6.40     | 1.15  | 10          | 11            | 10     | 11                     |
| 1900..... | 60.4        | 96      | 20     | 2.79          | 7.63     | 0.72  | 13          | 9             | 9      | 9                      |
| 1901..... | 58.9        | 91      | 28     | 5.66          | 7.96     | 2.24  | 8           | 9             | 14     | 15                     |
| 1902..... | 59.8        | 95      | 25     | 1.96          | 4.45     | 0.29  | 13          | 11            | 7      | 8                      |
| 1903..... | 61.8        | 94      | 18     | 1.67          | 4.65     | 0.22  | 16          | 9             | 6      | 7                      |
| 1904..... | 61.6        | 94      | 21     | 3.78          | 7.50     | 2.07  | 12          | 10            | 9      | 11                     |
| 1905..... | 60.8        | 93      | 22     | 2.59          | 5.17     | 0.56  | 11          | 9             | 11     | 12                     |
| 1906..... | 60.0        | 99      | 23     | 3.23          | 5.59     | 0.93  | 12          | 10            | 9      | 10                     |
| 1907..... | 54.8        | 91      | 19     | 3.08          | 6.38     | 1.44  | 11          | 9             | 11     | 11                     |
| 1908..... | 61.2        | 96      | 22     | 6.28          | 10.95    | 3.19  | 10          | 10            | 11     | 15                     |
| 1909..... | 59.2        | 92      | 23     | 2.90          | 5.52     | 1.51  | 12          | 10            | 9      | 10                     |
| 1910..... | 56.8        | 88      | 24     | 3.38          | 6.08     | 1.73  | 11          | 10            | 10     | 12                     |
| 1911..... | 65.2        | 99      | 20     | 1.97          | 6.81     | 0.42  | 17          | 10            | 4      | 7                      |
| 1912..... | 61.2        | 91      | 28     | 3.15          | 5.99     | 0.99  | 14          | 8             | 9      | 11                     |
| 1913..... | 58.5        | 93      | 21     | 3.86          | 6.45     | 0.48  | 13          | 8             | 10     | 10                     |
| 1914..... | 61.5        | 96      | 19     | 3.34          | 6.52     | 0.90  | 16          | 9             | 6      | 9                      |
| 1915..... | 56.2        | 84      | 21     | 4.16          | 7.45     | 2.29  | 10          | 8             | 13     | 14                     |
| 1916..... | 61.0        | 93      | 26     | 3.19          | 6.09     | 1.49  | 12          | 11            | 8      | 13                     |
| 1917..... | 53.3        | 90      | 20     | 3.39          | 8.09     | 1.65  | 9           | 10            | 12     | 13                     |
| 1918..... | 65.1        | 95      | 21     | 5.04          | 8.37     | 1.81  | 13          | 12            | 6      | 14                     |
| 1919..... | 59.5        | 98      | 27     | 5.80          | 13.59    | 2.86  | 13          | 7             | 11     | 14                     |
| 1920..... | 56.6        | 92      | 18     | 2.02          | 3.65     | 0.67  | 17          | 8             | 6      | 8                      |
| 1921..... | 59.8        | 93      | 22     | 3.93          | 8.17     | 0.97  | 14          | 8             | 9      | 11                     |
| 1922..... | 62.5        | 96      | 20     | 3.21          | 7.14     | 1.69  | 15          | 8             | 8      | 10                     |
| 1923..... | 58.3        | 93      | 20     | 3.50          | 7.43     | 1.23  | 19          | 6             | 6      | 8                      |
| 1924..... | 54.6        | 92      | 18     | 5.71          | 9.64     | 3.31  | 9           | 9             | 13     | 17                     |
| 1925..... | 55.2        | 98      | 22     | 3.49          | 7.98     | 1.02  | 13          | 10            | 8      | 11                     |
| 1926..... | 58.8        | 95      | 18     | 1.78          | 5.52     | 0.62  | 17          | 10            | 4      | 8                      |
| 1927..... | 58.2        | 92      | 23     | 4.14          | 7.23     | 1.75  | 9           | 9             | 13     | 16                     |
| 1928..... | 58.0        | 95      | 20     | 2.23          | 5.10     | 0.65  | 15          | 9             | 7      | 10                     |
| 1929..... | 58.5        | 97      | 23     | 4.81          | 8.43     | 1.96  | 13          | 9             | 9      | 14                     |
| 1930..... | 61.2        | 99      | 25     | 3.03          | 6.39     | 1.03  | 15          | 8             | 8      | 10                     |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |      | Highest stage | Date | Lowest stage |    | Date | Flood stage |
|-------------------|-------------------|------------|------|---------------|------|--------------|----|------|-------------|
|                   |                   |            |      |               |      |              |    |      |             |
| Port Jervis.....  | Delaware.....     | 2.8        | 3.6  | 30            | 2.2  | 14           | 18 |      |             |
| Phillipsburg..... | Delaware.....     | 2.2        | 2.9  | 1             | 1.8  | 16           | 22 |      |             |
| Mauch Chunk.....  | Lehigh.....       | 2.0        | 0.8  | 24            | 1.8  | 12           | 12 |      |             |
| Wilkes-Barre..... | Susquehanna.....  | 5.1        | 7.9  | 26            | 3.2  | 14           | 20 |      |             |
| Williamsport..... | Susquehanna.....  | 2.6        | 3.8  | 22            | 1.5  | 14           | 20 |      |             |
| Harrisburg.....   | Susquehanna.....  | 4.5        | 5.1  | 23            | 4.0  | 13           | 17 |      |             |
| Greensboro.....   | Monongahela.....  | 11.1       | 11.7 | 13            | 10.3 | 31           | 30 |      |             |
| West Newton.....  | Youghiogheny..... | 1.0        | 1.5  | 20            | 0.4  | 30           | 20 |      |             |
| Lock No. 4.....   | Monongahela.....  | 13.5       | 14.5 | 20            | 12.8 | 31           | 31 |      |             |
| Pittsburgh.....   | Ohio.....         | 11.3       | 12.8 | 21            | 10.5 | 13           | 25 |      |             |
| Beaver Dam.....   | Ohio.....         | 8.3        | 9.5  | 22            | 7.5  | 13           | 30 |      |             |



## Climatological Data for May, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                |                 | Precipitation, in inches |                      |       |                           | No. of days          |                           |                              | Prevailing direction of wind | Observers |       |            |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|----------------|-----------------|--------------------------|----------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|------------------------------|-----------|-------|------------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date           | Lowest          | Date                     | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more |                              |           | Clear | Pt. cloudy | Cloudy                       |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |                |                 |                          |                      |       |                           |                      |                           |                              |                              |           |       |            |                              |
| Allentown          | Lehigh       | 254             | 19                      | 61.9                         | .....                     | 94 <sup>a</sup> | 7              | 40              | 31                       | 40 <sup>a</sup>      | 3.85  | +0.23                     | 1.48                 | 0                         | 11                           | 17                           | 11        | 3     | sw.        | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 43                      | 60.8                         | +1.4                      | 91              | 7              | 35              | 27 <sup>†</sup>          | 42                   | 1.75  | -2.27                     | 0.48                 | 0                         | 10                           | 20                           | 8         | 3     | w.         | F. E. Rooney.                |
| Arundtsville       | Adams        | 700             | 6                       | 63.4                         | .....                     | 91              | 7              | 39              | 30                       | 40                   | 1.92  | .....                     | 1.32                 | 0                         | 7                            | 17                           | 11        | 3     | nw.        | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 25                      | 58.4                         | .....                     | 90              | 7              | 32              | 27 <sup>†</sup>          | 50                   | 1.88  | -1.97                     | 0.72                 | 0                         | 8                            | 8                            | 11        | 12    | sw.        | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 44                      | 64.6                         | +1.6                      | 94              | 7 <sup>†</sup> | 42              | 27                       | 35                   | 2.13  | -1.59                     | 0.95                 | 0                         | 10                           | 18                           | 1         | 12    | nw.        | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 64                      | 65.8                         | +4.4                      | 95              | 7              | 40              | 30 <sup>†</sup>          | 50                   | 1.55  | -2.28                     | 0.65                 | 0                         | 7                            | 22                           | 3         | 6     | nw.        | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 34                      | 61.5                         | +0.1                      | 96              | 7              | 36              | 21                       | 52                   | 3.31  | -0.27                     | 1.12                 | 0                         | 9                            | 22                           | 4         | 5     | .....      | H. H. Yetter.                |
| Center Hall        | Center       | 1,272           | 34                      | 57.6                         | -2.2                      | 92              | 7              | 37              | 26 <sup>†</sup>          | 39                   | 2.60  | -1.40                     | 1.28                 | 0                         | 6                            | 19                           | 3         | 9     | .....      | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 31                      | 62.3                         | +1.1                      | 91              | 7              | 38              | 21 <sup>†</sup>          | 46                   | 1.68  | -1.90                     | 0.71                 | 0                         | 10                           | 17                           | 10        | 4     | sw.        | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 21                      | 60.2                         | +0.4                      | 94              | 10             | 28              | 30                       | 56                   | 2.79  | -1.99                     | 1.10                 | 0                         | 12                           | 13                           | 12        | 6     | nw.        | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 43                      | 62.7                         | +1.0                      | 93              | 7              | 35              | 12 <sup>†</sup>          | 44                   | 4.33  | +0.30                     | 1.46                 | 0                         | 8                            | 15                           | 9         | 7     | sw.        | Prof. W. T. Gordon.          |
| Colebrook          | Lebanon      | 560             | 21                      | 61.0                         | +2.0                      | 93              | 7              | 35              | 27                       | 45                   | 2.69  | -0.63                     | 0.78                 | 0                         | 10                           | 19                           | 4         | 8     | w.         | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 43                      | 57.3                         | -1.4                      | 89              | 7              | 28              | 27                       | 49                   | 2.30  | -2.15                     | 0.84                 | 0                         | 7                            | 10                           | 12        | 9     | w.         | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 30                      | 63.0                         | +2.1                      | 93              | 7              | 40              | 21                       | 44                   | 2.94  | -0.59                     | 1.37                 | 0                         | 11                           | 16                           | 6         | 9     | sw.        | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 15                      | 59.2                         | .....                     | 89              | 7              | 34              | 27                       | 33                   | 3.34  | .....                     | 1.06                 | 0                         | 10                           | 10                           | 11        | 10    | nw.        | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 24                      | 63.9                         | +2.9                      | 95              | 8              | 38              | 12 <sup>†</sup>          | 43                   | 2.46  | -1.15                     | 1.05                 | 0                         | 9                            | 25                           | 1         | 5     | nw.        | Prof. N. W. Swayne.          |
| Gettysburg         | Adams        | 553             | 57                      | 64.8                         | +3.5                      | 94              | 7              | 42              | 27                       | 44                   | 1.53  | -2.44                     | 1.15                 | 0                         | 9                            | 18                           | 5         | 8     | w.         | Dr. Henry Stewart.           |
| Gordon             | Schuylkill   | 840             | 27                      | 60.2                         | +1.7                      | 92              | 7              | 33              | 21                       | 53                   | 3.67  | -0.09                     | 1.00                 | 0                         | 9                            | 17                           | 8         | 6     | w.         | Capt. J. G. Johnson.         |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 54.6                         | .....                     | 87              | 23             | 27              | 30                       | 40                   | 4.14  | +0.09                     | 1.40                 | 0                         | 8                            | 17                           | 4         | 10    | nw.        | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 37                      | 61.0                         | -0.7                      | 93              | 7              | 36              | 13                       | 46                   | 4.57  | +0.07                     | 1.36                 | 0                         | 10                           | 16                           | 10        | 5     | w.         | State Sanatorium.            |
| Hanover            | York         | 600             | 27                      | 65.6                         | +1.7                      | 94              | 7              | 39              | 31                       | 41                   | 1.43  | -1.87                     | 0.65                 | 0                         | 11                           | 18                           | 6         | 7     | s.         | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 61                      | 63.8                         | +2.0                      | 91              | 7              | 45              | 27                       | 36                   | 2.62  | -0.82                     | 1.19                 | 0                         | 7                            | 12                           | 13        | 6     | w.         | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 12                      | 58.0                         | .....                     | 91              | 7              | 33              | 30                       | 48                   | 3.01  | .....                     | 1.05                 | 0                         | 10                           | 14                           | 7         | 10    | w.         | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 15                      | 67.0                         | .....                     | 95              | 8              | 48              | 21 <sup>†</sup>          | 33                   | 1.88  | -1.30                     | 0.67                 | 0                         | 9                            | 19                           | 9         | 3     | .....      | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 43                      | 60.4                         | -0.3                      | 90              | 7              | 31              | 27 <sup>†</sup>          | 51                   | 2.29  | -2.03                     | 0.75                 | 0                         | 11                           | 11                           | 9         | 11    | w.         | Prof. H. A. Conner.          |
| Hyndman            | Bedford      | 977             | 18                      | 63.8                         | +3.0                      | 97              | 7              | 31              | 30 <sup>†</sup>          | 54                   | 1.28  | -1.92                     | 0.22                 | 0                         | 14                           | 8                            | 9         | 14    | .....      | Horace A. Sheavly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | 58.2                         | .....                     | 87              | 7              | 29              | 30                       | 42                   | 2.10  | .....                     | 0.80                 | 0                         | 7                            | 13                           | 10        | 8     | w.         | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 43                      | 62.3                         | +1.3                      | 95              | 7              | 36              | 21 <sup>†</sup>          | 56                   | 2.41  | -0.87                     | 0.93                 | 0                         | 7                            | 23                           | 1         | 7     | w.         | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 56.2                         | -1.3                      | 85              | 23             | 32              | 27                       | 44                   | 3.48  | -0.38                     | 1.35                 | 0                         | 8                            | 13                           | 8         | 10    | .....      | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 90                      | 64.4                         | +3.4                      | 96              | 7              | 40              | 27                       | 46                   | 2.68  | -1.35                     | 0.60                 | 0                         | 9                            | 20                           | 6         | 5     | w.         | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 56                      | 62.5                         | +4.0                      | 97              | 7              | 39              | 27                       | 45                   | 3.75  | -0.18                     | 1.05                 | 0                         | 11                           | 19                           | 4         | 8     | w.         | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 42                      | 64.0                         | +2.1                      | 97              | 7              | 33              | 27                       | 50                   | 1.86  | -1.98                     | 0.62                 | 0                         | 9                            | 10                           | 14        | 7     | sw.        | Joseph Beaver.               |
| Lykens             | Dauphin      | 680             | 16                      | 62.2                         | +3.1                      | 97              | 7              | 31              | 27                       | 52                   | 3.96  | -0.33                     | 1.22                 | 0                         | 11                           | 18                           | 8         | 5     | sw.        | Susquehanna Collieries Co.   |
| Mauch Chunk        | Carbon       | 600             | 41                      | 60.3                         | +0.2                      | 95              | 7              | 36              | 30                       | 51                   | 5.35  | +1.34                     | 1.43                 | 0                         | 12                           | 18                           | 7         | 6     | nw.        | R. K. Wintermute.            |
| Millintown         | Juniata      | 445             | 27                      | 61.8                         | +1.1                      | 94              | 7              | 38              | 30                       | 51                   | 3.77  | +0.03                     | 0.96                 | 0                         | 11                           | 17                           | 3         | 11    | w.         | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 28                      | 56.4                         | +1.4                      | 88              | 7              | 34              | 21 <sup>†</sup>          | 35                   | 5.81  | +2.11                     | 1.22                 | 0                         | 14                           | 9                            | 9         | 13    | w.         | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | .....                        | .....                     | .....           | .....          | .....           | .....                    | .....                | ..... | .....                     | .....                | .....                     | .....                        | .....                        | .....     | ..... | .....      | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 56.2                         | -1.0                      | 88              | 23             | 30              | 27                       | 45                   | 4.24  | -0.13                     | 1.02                 | 0                         | 11                           | 16                           | 7         | 8     | w.         | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 11                      | 62.8                         | .....                     | 92              | 7              | 40              | 12                       | 38                   | 4.27  | .....                     | 1.27                 | 0                         | 11                           | 15                           | 9         | 7     | nw.        | Charles Decker.              |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 62.4                         | +3.1                      | 96              | 7              | 37              | 31                       | 47                   | 3.08  | .....                     | 1.60                 | 0                         | 9                            | 24                           | 2         | 5     | sw.        | North Springfield Water Co.  |
| Palmerton          | Carbon       | 398             | 14                      | 61.0                         | .....                     | 93              | 7              | 37              | 21                       | 39                   | 5.29  | .....                     | 1.88                 | 0                         | 10                           | 7                            | 12        | 12    | sw.        | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 59                      | 66.4                         | +3.5                      | 94              | 7              | 47              | 26                       | 29                   | 3.25  | -0.01                     | 1.52                 | 0                         | 8                            | 11                           | 14        | 6     | nw.        | U. S. Weather Bureau.        |
| Philadelphia-Gtn.  | Philadelphia | 113             | 6                       | 66.5                         | .....                     | 95              | 7              | 46              | 26 <sup>†</sup>          | 34                   | 3.65  | .....                     | 1.15                 | 0                         | 11                           | 17                           | 9         | 5     | .....      | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 64.8                         | +3.1                      | 92              | 7              | 41              | 27                       | 31                   | 2.61  | -0.70                     | 1.07                 | 0                         | 9                            | .....                        | .....     | ..... | .....      | Commandant, Navy Yard.       |
| Phila-Point Breeze | Philadelphia | 90              | 5                       | 66.1                         | .....                     | 94              | 7              | 46              | 27                       | 35                   | 3.54  | .....                     | 1.39                 | 0                         | 8                            | 12                           | 8         | 11    | nw.        | Atlantic Refining Co.        |
| Phoenixville       | Chester      | 100             | 20                      | 65.4                         | +4.4                      | 99              | 7              | 40              | 31                       | 49                   | 6.39  | +2.43                     | 2.70                 | 0                         | 8                            | 18                           | 9         | 4     | sw.        | North Springfield Water Co.  |
| Quakertown         | Bucks        | 496             | 46                      | 62.2                         | +2.6                      | 95              | 7              | 34              | 31                       | 46                   | 3.35  | -0.67                     | 1.15                 | 0                         | 9                            | 22                           | 1         | 8     | nw.        | John E. Benner.              |
| Reading            | Berks        | 325             | 61                      | 63.9                         | +1.4                      | 93              | 7              | 44              | 27                       | 35                   | 3.69  | +0.02                     | 1.65                 | 0                         | 9                            | 14                           | 10        | 7     | w.         | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 36                      | 60.1                         | +0.7                      | 90              | 23             | 40              | 21                       | 40                   | 2.58  | -0.69                     | 0.97                 | 0                         | 12                           | 9                            | 11        | 11    | sw.        | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 42                      | 62.2                         | +1.1                      | 94              | 7              | 35              | 27                       | 44                   | 3.40  | -0.68                     | 1.05                 | 0                         | 9                            | 14                           | 11        | 6     | nw.        | Dr. George E. Fisher.        |
| Shawmont           | Philadelphia | 51              | 35                      | 65.2                         | .....                     | 92              | 7              | 41              | 31                       | 41                   | 3.48  | +0.02                     | 1.44                 | 0                         | 9                            | 17                           | 8         | 6     | nw.        | W. S. Guiles.                |
| State College      | Center       | 1,217           | 46                      | 60.6                         | +1.5                      | 91              | 7              | 35              | 30                       | 43                   | 1.93  | -2.04                     | 0.67                 | 0                         | 7                            | 18                           | 9         | 4     | nw.        | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 16                      | 58.8                         | -1.1                      | 92              | 7              | 35              | 12 <sup>†</sup>          | 47                   | 2.62  | -0.99                     | 1.22                 | 0                         | 7                            | 18                           | 3         | 10    | w.         | State Normal School.         |
| Towanda            | Bradford     | 754             | 36                      | 58.2                         | +0.2                      | 89              | 7              | 37              | 27 <sup>†</sup>          | 48                   | 4.44  | +1.23                     | 1.13                 | 0                         | 11                           | 12                           | 7         | 12    | sw.        | Hiram E. Bull, C. E.         |
| Wellsville         | Tioga        | 1,419           | 66                      | 57.0                         | +0.2                      | 88              | 5 <sup>†</sup> | 30              | 30                       | 52                   | 2.31  | -1.74                     | 0.98                 | 0                         | 9                            | 17                           | 6         | 8     | sw.        | George W. Hill.              |
| West Chester       | Chester      | 455             | 93                      | 63.9                         | +3.2                      | 96              | 8              | 39              | 27                       | 37                   | 3.63  | -0.82                     | 1.70                 | 0                         | 7                            | 22                           | 3         | 6     | w.         | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 44                      | 61.2                         | +0.5                      | 94              | 7              | 38              | 27                       | 45                   | 3.74  | +0.54                     | 1.38                 | 0                         | 12                           | 14                           | 6         | 11    | w.         | Miss Veronica E. April.      |
| York               | York         | 400             | 43                      | 63.0                         | +1.3                      | 94              | 5              | 35              | 31                       | 54                   | 2.06  | -1.32                     | 0.66                 | 0                         | 8                            | 18                           | 9         | 4     | w.         | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |                |                 |                          |                      |       |                           |                      |                           |                              |                              |           |       |            |                              |
| Beaver Dam         | Beaver       | 700             | 38                      | 61.7                         | +1.3                      | 85              | 6 <sup>†</sup> | 34              | 30                       | 41                   | 2.87  | -0.25                     | 0.62                 | 0                         | 14                           | 10                           | 8         | 13    | sw.        | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 15                      | 55.4                         | +0.5                      | 86              | 7 <sup>†</sup> | 26              | 27                       | 50                   | 2.46  | -1.27                     | 0.68                 | 0                         | 12                           | 7                            | 18        | 6     | w.         | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 40                      | 56.4                         | -0.1                      | 89 <sup>a</sup> | 7              | 26 <sup>†</sup> | 30                       | 46 <sup>†</sup>      | 2.20  | -1.47                     | 0.48                 | 0                         | 10                           | 20                           | 3         | 8     | .....      | John Fawcett.                |
| Butler             | Butler       | 1,152           | 9                       | 60.6                         | .....                     | 90              | 10             | 29              | 30                       | 50                   | 2.25  | .....                     | 1.21                 | 0                         | 7                            | 14                           | 8         | 9     | nw         |                              |



## Daily Precipitation for May, 1930

| Stations           | Drainage Basin | Day of month |     |     |     |   |     |     |     |     |    |    |     |     |      |      |     |     |     |      |     |     |    |    |      |      |      |     |     |     |      |      | Total |
|--------------------|----------------|--------------|-----|-----|-----|---|-----|-----|-----|-----|----|----|-----|-----|------|------|-----|-----|-----|------|-----|-----|----|----|------|------|------|-----|-----|-----|------|------|-------|
|                    |                | 1            | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9   | 10 | 11 | 12  | 13  | 14   | 15   | 16  | 17  | 18  | 19   | 20  | 21  | 22 | 23 | 24   | 25   | 26   | 27  | 28  | 29  | 30   | 31   |       |
| Atlantic Drainage. |                |              |     |     |     |   |     |     |     |     |    |    |     |     |      |      |     |     |     |      |     |     |    |    |      |      |      |     |     |     |      |      |       |
| Allentown\|\|\| | Lehigh         |              | .23 | .02 |     |   |     |     | .01 |     |    |    |     |     | 1.14 | .06  |     | .04 | .27 | .28  |     |     |    |    |      | 1.48 |      |     | .01 | .31 |      |      | 3.85  |
| Altoona            | Juniata        |              |     |     |     |   | .20 |     |     |     |    |    | .17 | .10 | .15  | .05  |     | .28 | .48 | T    |     |     |    |    | .05  |      |      | .23 |     | .04 |      | 1.75 |       |
| Ansonia\|\|\| | W. Br. Susq.   |              | .21 | .21 |     | T |     |     | .37 |     |    |    |     | .08 | .61  | .11  | .01 |     | .13 | .26  |     |     |    |    |      | .16  |      |     | .09 | .17 |      | 2.41 |       |
| Arendtsville\|\|\| | Lower Susq.    |              | .10 |     |     |   |     |     |     |     |    |    |     |     | 1.32 |      |     | .12 |     | .15  |     |     |    |    |      | .16  |      |     | .06 | .01 |      | 1.92 |       |
| Baker's Summit     | Juniata        |              |     |     |     |   |     | .09 |     |     |    |    |     | .04 | .08  |      | .07 |     | .27 | .42  | .02 |     |    |    |      | .02  |      |     | .12 |     |      | 1.13 |       |
| Bellefonte***      | W. Br. Susq.   | T            | T   |     |     | T | T   |     |     | T   |    |    |     | .04 | .72  | .29  | .02 |     | .07 | .25  | T   |     |    |    |      | .16  |      |     | .33 | T   |      | 1.88 |       |
| Bethlehem          | Lehigh         | T            | .29 | .03 |     |   |     |     |     | T   |    |    |     |     | .17  | .78  |     | .03 | .03 | .48  | .01 |     |    |    |      | *    |      |     | .31 | T   |      | 2.13 |       |
| Blosserville\|\| | Lower Susq.    |              | .03 | .38 |     |   |     |     | .05 | T   |    |    |     |     | .98  | .05  | .03 | T   | .02 | .25  |     |     |    |    |      | .60  |      |     | .30 |     |      | 2.69 |       |
| Carlisle           | Lower Susq.    |              | .11 | T   |     |   |     |     |     |     |    |    |     |     | .12  | .53  |     |     | .06 | .24  | T   |     |    |    |      | .28  |      |     | .21 |     |      | 1.55 |       |
| Catawissa          | N. Br. Susq.   |              | .06 | .42 |     |   |     | .02 |     |     |    |    |     |     | 1.08 | .09  | T   | T   | .17 | .14  |     |     |    |    | 1.12 |      |      | .21 |     |     |      | 3.31 |       |
| Center Hall        | Susquehanna    |              |     |     |     |   |     |     |     |     |    |    |     |     | .38  | 1.28 | .10 |     |     | .20  | .46 |     |    |    | .18  |      |      |     |     |     | 2.60 |      |       |
| Chambersburg       | Potomac        |              | .02 |     |     |   | .03 |     | .19 |     |    |    |     |     | .04  | .71  |     |     | .08 | .08  | .04 |     |    |    | .44  |      |      | .10 |     |     |      | 1.68 |       |
| Clearfield         | W. Br. Susq.   |              |     | .03 |     | T |     |     |     |     |    |    |     |     | .20  | .63  | .15 |     | .08 | 1.10 | .12 | .03 |    |    | .13  |      |      | .20 | .10 |     | .02  | 2.79 |       |
| Coatesville        | Lower Del.     |              | .15 |     |     |   |     |     |     |     |    |    |     |     | .82  | 1.25 |     |     | .02 | .37  |     |     |    |    | 1.36 | .10  |      | .26 |     |     |      | 4.33 |       |
| Colebrook          | Lower Susq.    | T            | .11 |     |     |   |     |     |     | T   |    |    |     |     | .46  | .49  | .02 | T   | .19 | .15  | .01 |     |    |    |      | .75  | .03  |     | .48 |     |      | 2.69 |       |
| Conshohocken       | Schuylkill     |              | .35 |     |     |   |     |     |     |     |    |    |     |     | .99  | .60  | .01 | .03 | .01 | .20  |     |     |    |    |      | T    | 1.00 |     | .29 |     |      | 3.48 |       |
| Cresson            | Juniata        |              |     |     |     |   | .19 |     |     |     |    |    |     |     | .15  | .20  | .12 |     | .40 | .42  |     |     |    |    |      | .12  |      |     | .21 |     |      | 1.81 |       |
| Doylstown          | Lower Del.     |              | .10 | T   |     |   |     |     |     |     |    |    |     |     | .83  | .98  |     |     | .06 | .31  | .04 |     |    |    |      | .90  |      |     | .37 |     |      | 3.59 |       |
| Driftwood\|\|\| | W. Br. Susq.   |              |     | .08 |     |   |     |     |     |     |    |    |     |     | .18  | .65  | .18 |     | *   | .45  | .65 |     |    |    |      | .01  |      |     | .35 | .05 |      | 2.60 |       |
| Emporium           | do.            | T            | T   |     |     |   |     |     |     |     |    |    |     |     | .80  | .84  | .06 |     | .11 | .55  |     | T   |    |    |      | .24  |      |     | .20 |     | T    | 2.30 |       |
| Ephrata            | Lower Susq.    |              | .13 | .08 |     |   |     |     |     |     |    |    |     |     | .20  | .55  | .16 |     | .03 | .03  | .02 |     |    |    |      | 1.10 | .27  |     | .37 |     |      | 2.94 |       |
| Forest City        | N. Br. Susq.   |              | .15 | .05 |     |   |     |     | .11 |     |    |    |     |     | .31  | 1.32 |     |     |     | .25  | .26 |     |    |    |      | 1.23 | .06  |     | .03 | .32 | T    |      | 4.06  |
| Freeland\|\|\| | Lehigh         |              |     | .57 | .08 |   |     |     |     |     |    |    |     |     |      | .91  | .14 |     | .04 | .18  | .10 |     |    |    |      | 1.06 |      |     | .03 | .23 |      | 3.34 |       |
| George School      | Lower Del.     |              |     | .02 |     |   |     |     |     |     |    |    |     |     | 1.05 | .50  | .02 |     | .03 | .15  | .07 |     |    |    |      | .30  |      |     | .32 |     |      | 2.46 |       |
| Gettysburg         | Potomac        |              | .01 | T   |     |   |     |     |     |     |    |    |     |     | .26  | .89  |     |     | .08 | .06  | .06 |     |    |    |      | .07  | .01  |     | .09 |     |      | 1.53 |       |
| Harfordville\|\|\| | Lower Susq.    |              | .01 | .15 |     |   |     |     |     |     |    |    |     |     | 1.11 | .04  | T   |     | .09 | .37  |     |     |    |    |      | .72  |      |     | .27 |     |      | 2.45 |       |
| Hordon             | Lower Susq.    |              |     | .12 |     |   |     |     |     |     |    |    |     |     | .70  | 1.00 |     |     | .20 | .46  | .14 |     |    |    |      | .10  | .68  |     | .27 |     |      | 3.67 |       |
| Gouldsboro\|\| | Lehigh         |              |     | .94 | .16 |   |     |     | .15 |     |    |    |     |     |      | .59  | .23 |     |     |      | .45 |     |    |    |      | 1.40 |      |     | .23 |     |      | 4.14 |       |
| Graterford         | Schuylkill     |              | .09 |     |     |   |     |     |     |     |    |    |     |     | .19  | 1.16 | .08 |     | .01 | .17  | .08 |     |    |    |      | 1.54 |      |     | .41 |     |      | 3.73 |       |
| Hamburg            | Schuylkill     |              | .02 |     | .08 |   |     |     |     |     |    |    |     |     | .50  | 1.20 | .22 |     | .20 | .58  | .04 |     |    |    |      | 1.36 |      |     | .37 |     |      | 4.57 |       |
| Hanover            | Lower Susq.    |              | .04 | .08 |     |   | .01 |     |     |     |    |    |     |     | .10  | .65  |     |     | .03 | .05  | .06 |     |    |    |      | .18  | .11  |     | .12 |     |      | 1.43 |       |
| Harrisburg***      | do.            | T            | T   |     |     |   | T   | T   | .01 |     |    |    |     |     | 1.18 | .24  |     | T   | .07 | .14  |     |     |    |    |      | .60  |      |     | .38 |     |      | 2.62 |       |
| Hawley\|\|\| | Upper Del.     |              | .15 | .15 |     |   |     |     | .18 |     |    |    |     |     | T    | .65  | .06 | T   | .02 | .17  | .26 |     |    |    |      | 1.05 | T    |     | .32 |     |      | 3.01 |       |
| Hollisterville     | Upper Del.     |              | .28 | .24 |     |   |     |     | .25 |     |    |    |     |     | .25  | .89  | .06 |     | .04 | .20  | .32 |     |    |    |      |      | 1.26 | .03 |     | .32 | T    |      | 3.89  |
| Holtwood\|\| | Lower Susq.    | T            |     |     |     |   |     |     | .02 |     |    |    |     |     | .03  | .66  | .20 |     | T   | .07  | .11 |     |    |    |      | .67  |      | .07 | .05 |     |      | 1.88 |       |
| Huntingdon         | Juniata        | T            | .12 |     |     |   |     |     |     | .01 |    |    |     | .01 | .75  | .13  | .03 |     | .20 | .48  |     |     |    |    |      | .22  |      |     | .33 |     | .01  | 2.29 |       |
| Hyndman            | Potomac        |              | .18 | .01 |     |   | .08 | .17 | .02 |     |    |    |     |     | .08  | .10  | .07 | .03 | .22 | .14  | .03 |     |    |    |      | .08  |      |     | .07 |     |      | 1.28 |       |
| Kylertown          | W. Br. Susq.   |              |     |     |     |   |     |     |     |     |    |    |     |     | .17  | .20  | .10 |     | .40 | .80  |     |     |    |    |      | .11  |      |     | .32 |     |      | 2.10 |       |
| Lakeville\|\| | Upper Del.     |              |     | .26 | .15 |   |     |     | .05 |     |    |    |     |     |      | .88  | .10 | T   | .30 | .21  | .30 |     |    |    |      | 1.27 | T    |     | .34 | T   |      | 3.86 |       |
| Lancaster          | Lower Susq.    |              | .08 |     |     |   |     |     |     |     |    |    |     |     | .93  | .43  |     |     | .12 |      |     |     |    |    |      | .35  | .26  |     | .24 |     |      | 2.41 |       |
| Lansford\|\|\| | Lehigh         |              |     | .18 | .24 |   |     |     |     |     |    |    |     |     | 1.33 | .23  | .01 | *   | .39 | .22  |     |     |    |    |      | *    | 1.12 |     | .06 | .17 |      | 3.95 |       |
| Lawrenceville      | N. Br. Susq.   | T            | T   |     |     |   |     | T   | .25 |     |    |    |     |     | .33  | 1.35 | .05 |     | .05 | .10  |     |     |    |    |      | .60  |      |     | .75 |     |      | 3.48 |       |
| Lebanon            | Lower Susq.    |              | T   |     |     |   | T   |     |     |     |    |    |     |     | .30  | .31  | .36 | T   | .21 | .11  | .01 |     |    |    |      | .60  | .20  |     | .58 |     |      | 2.68 |       |
| Lewisburg          | W. Br. Susq.   |              | .03 |     |     |   |     | .36 |     |     |    |    |     |     | .43  | .98  | .38 |     | .02 | .05  | .17 |     |    |    |      | 1.05 | .02  |     | .26 |     |      | 3.75 |       |
| Lloyd              | do.            |              | .29 | .05 |     |   | .14 | .09 |     |     |    |    |     |     | .35  | .62  | .03 |     | .03 | .85  |     |     |    |    |      | .20  |      |     | .24 |     |      | 2.86 |       |
| Lock Haven         | do.            |              |     | .03 |     |   |     |     |     |     |    |    |     |     | .25  | .62  | .10 |     | .03 | .25  | .25 |     |    |    |      | .10  |      |     | .23 |     |      | 1.86 |       |
| Lykens             | Susquehanna    |              | .08 | .10 | T   |   |     |     |     |     |    |    |     |     | .36  | 1.22 | .11 |     | .21 | .47  | .10 |     |    |    |      | .60  | .23  |     | .48 |     |      | 3.96 |       |
| Mauch Chunk        | Lehigh         |              | .11 | .54 | .13 |   |     |     |     |     |    |    |     |     | 1.04 | 1.17 | .03 |     | .14 | .48  | .03 |     |    |    |      | 1.23 | .20  |     | .25 |     |      | 5.35 |       |
| Middletown         | Juniata        |              | .10 | .02 |     |   |     | .95 |     |     |    |    |     |     | .48  | .96  |     |     | .09 | .27  | .13 |     |    |    |      | .39  | .01  |     | .37 |     |      | 3.77 |       |
| Montrose           | N. Br. Susq.   |              |     | .40 | .24 |   |     | .23 | .22 |     |    |    |     |     | .25  | 1.13 | .10 |     | .65 | .20  |     | .10 |    |    |      | 1.22 | .40  | .05 | .62 |     |      | 5.81 |       |
| Morris Run         | N. Br. Susq.   |              | .17 | .24 |     |   | .04 | .08 |     |     |    |    |     |     | .36  | .83  |     | .06 | .09 | .06  | .46 |     |    |    |      | .36  | .02  |     | .26 |     |      | 3.03 |       |
| Mount Pocono       | Upper Del.     |              |     |     |     |   |     |     |     |     |    |    |     |     |      | .11  | .14 |     | .04 | .11  | .27 |     |    |    |      | .99  |      |     | .29 |     |      | 4.24 |       |
| Muncy Valley       | W. Br. Susq.   |              | .38 | .45 |     |   | .04 |     |     |     |    |    |     |     | .51  | 1.02 | .14 |     | .04 | .11  | .27 |     |    |    |      | .55  | .48  |     | .44 |     |      | 4.24 |       |
| Narberth           | Lower Del.     |              | .35 | T   |     |   |     |     |     |     |    |    |     |     | 1.27 | .79  | .04 |     | .05 | .19  | .07 |     |    |    |      | .55  | .28  |     | .05 | .35 |      | 3.08 |       |
| Neshaminy\|\|\| | Lower Del.     |              |     | .27 |     |   | T   |     |     |     |    |    |     |     | 1.60 | .18  |     | .05 | .10 | .20  |     |     |    |    |      |      |      |     |     |     |      |      |       |



## Daily Precipitation for May, 1930—Continued from page 23

| Stations         | Drainage Basin | Day of month |     |     |   |     |      |     |     |   |    |     |      |     |     |     |     |     |     |      |      |     |    |     |     |     |     |     |     |     |     |      | Total |      |
|------------------|----------------|--------------|-----|-----|---|-----|------|-----|-----|---|----|-----|------|-----|-----|-----|-----|-----|-----|------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                  |                | 1            | 2   | 3   | 4 | 5   | 6    | 7   | 8   | 9 | 10 | 11  | 12   | 13  | 14  | 15  | 16  | 17  | 18  | 19   | 20   | 21  | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Ohio Drainage.   |                |              |     |     |   |     |      |     |     |   |    |     |      |     |     |     |     |     |     |      |      |     |    |     |     |     |     |     |     |     |     |      |       |      |
| Beaver Dam\|\|\| | Ohio           | .40          |     |     |   |     | .60  |     |     |   |    |     | .12  | .06 | .22 | .04 | .14 |     | .01 | .34  | .62  |     |    |     |     | .12 |     |     |     | .18 |     | .01  | .01   | 2.87 |
| Beaver Falls\|\|\| | Beaver         | .58          |     |     |   |     | .46  |     |     |   |    |     | .06  | .16 | .25 | .02 | .40 |     | .06 | .49  | .62  |     |    |     | .10 |     |     |     | .13 |     | T.  | T.   | 3.33  |      |
| Bradford         | Allegheny      | .18          | .05 |     |   |     |      |     | .02 |   |    |     |      | .02 | .42 | .16 | .12 |     | .08 | .68  | .04  |     |    |     | .33 |     |     |     | .36 | T.  |     |      | 2.46  |      |
| Brookville       | do             |              | .06 |     |   | T.  |      |     |     |   |    |     | .03  | T.  | .29 | .23 | T.  |     | .45 | .48  |      |     |    |     | .29 |     |     |     | .20 | .11 | .06 |      | 2.20  |      |
| Butler           | Ohio           |              | T.  |     |   |     | .27  |     |     |   |    |     | .04  |     | .23 | .37 |     |     |     | 1.21 |      |     |    |     |     |     |     | .13 |     |     |     | 2.25 |       |      |
| Chambersville    | Allegheny      |              | .01 |     |   |     | .48  |     |     |   |    |     | .06  | .03 | .22 | .73 | .12 |     | .09 | .46  |      |     |    |     | .25 |     |     |     | .24 | .01 | T.  |      | 2.70  |      |
| Claysville       | Ohio           |              |     |     |   | .05 | 1.25 |     |     |   |    |     | .04  |     | .36 | .53 | .17 | .01 | .32 | .40  |      |     |    |     | .42 |     |     |     |     |     |     |      | 3.55  |      |
| Cloeff           | Allegheny      |              |     |     |   |     | .06  |     |     |   |    |     |      |     | .14 | .27 | .25 |     | .16 | .45  |      |     |    | .25 |     |     |     |     | .26 |     |     |      | 1.84  |      |
| Clymer†          | Conemaugh      |              |     |     |   | T.  | .49  |     |     |   |    |     | .09  |     | .12 | .65 | .18 |     | .22 | .51  | .73  |     |    |     | .52 |     |     |     | .24 |     | T.  |      | 3.75  |      |
| Confluence\|\|\| | Youghiogheny   | .05          |     |     |   |     |      | .18 |     |   |    |     |      |     | .13 | .20 | .19 | .04 | .06 | .55  | .28  |     |    |     | T.  | T.  |     |     | .05 |     |     |      | 1.73  |      |
| Coraopolis\|\|\| | Ohio           |              |     |     |   |     |      |     |     |   |    |     |      |     |     |     |     |     |     |      |      |     |    |     |     |     |     |     |     |     |     |      |       |      |
| Corry            | Allegheny      | .05          |     |     |   |     |      |     |     |   |    |     |      |     | .36 | .19 | .29 |     | .63 | .39  |      |     |    |     | .18 | .01 |     |     | .38 | .01 | .02 |      | 2.46  |      |
| Coudersport      | Allegheny      | .39          | .01 |     |   | .01 |      | .03 |     |   |    |     |      | .04 | .39 | .18 | .05 | .03 | .16 | .48  |      |     |    | .10 | .25 | .01 |     | .09 | .20 |     |     |      | 4.10  |      |
| Derry            | Conemaugh      |              |     |     |   |     | .40  |     |     |   |    |     | .10  | .62 | .68 | .66 | .27 |     | .23 | 1.02 | T.   |     |    |     |     |     |     | .12 |     |     |     |      | 2.42  |      |
| Donora\|\|\| | Monongahela    |              |     |     |   |     | .69  |     |     |   |    | T.  | .10  | .20 | .15 | .47 | .37 | T.  |     | .51  | .30  |     |    | T.  | .15 |     | T.  |     | .10 | T.  |     |      | 3.04  |      |
| Ebensburg        | Conemaugh      |              |     |     |   |     | .39  |     |     |   |    |     | .03  |     | .26 | .16 |     |     | .40 | .57  | .02  |     |    |     | T.  |     |     | .28 |     |     |     |      | 2.11  |      |
| Elk Lick         | Youghiogheny   |              |     |     |   |     | .18  |     |     |   |    |     |      | .25 | .40 | .15 | .15 | .55 | .28 |      |      |     |    |     | .12 |     | .08 | .10 | .12 |     |     |      | 2.38  |      |
| Falls Creek      | Allegheny      |              |     | .03 |   |     |      |     |     |   |    |     |      |     | .08 | .10 | .21 |     | .12 | 1.26 |      |     |    | .38 |     |     |     | .35 |     | .03 |     |      | 2.56  |      |
| Franklin\|\|\| | Allegheny      | .62          |     | .11 |   |     |      | .03 | .03 |   |    |     |      | .06 | .33 | .16 |     | .22 | .18 | .47  | .03  |     |    |     | .18 |     |     |     | .30 |     | .03 | .07  | 2.82  |      |
| Freeport\|\|\| | do             | .40          |     | .01 |   |     | .60  | .01 |     |   |    | T.  | .01  | .43 | .15 | .78 | .40 |     | .10 | .12  | .30  |     |    |     | .16 | .02 |     |     | .08 |     | .02 |      | 3.59  |      |
| Greensboro       | Monongahela    | T.           |     |     |   |     | .12  | .01 |     |   |    |     | .13  |     | .16 | .98 | .57 |     | .05 | .32  | .38  |     |    |     |     |     | .14 | .16 | .04 | .16 |     |      | 3.22  |      |
| Greensburg       | Youghiogheny   | .02          | T.  |     |   | T.  | .73  |     |     |   |    |     | 1.43 | .01 | .36 | .92 | .11 | .04 | .32 | .99  |      |     |    |     | .21 |     |     | .13 |     | T.  |     |      | 5.27  |      |
| Greenville       | Beaver         | .41          |     |     |   | .05 |      |     |     |   |    |     | .03  |     | .18 | .07 | .15 |     | .18 | .48  |      |     |    | .07 |     |     |     | .27 | .03 |     |     |      | 1.92  |      |
| Grove City       | do             | .36          |     |     |   | T.  | .19  |     |     |   |    |     | .21  |     | .28 | .07 | .17 |     | .22 | 1.11 |      |     |    | .20 |     |     |     | .16 |     | T.  |     |      | 2.97  |      |
| Herrs Isl. Dam\|\|\| | Ohio           | .13          |     |     |   |     | .53  |     |     |   |    |     | .11  | .03 | .31 | .09 | .60 | T.  | .05 | .18  | .08  |     |    |     | .28 |     |     |     | .11 |     |     |      | 2.50  |      |
| Ingram           | do             |              |     |     |   |     | .65  |     |     |   |    |     | .11  |     | .47 | .38 | .10 |     | .21 | .04  | T.   |     |    |     | .33 |     |     |     | .13 |     | T.  |      |       | 2.48 |
| Irwin            | Youghiogheny   | .06          |     |     |   | .02 | .53  |     |     |   |    |     | T.   | .32 | .17 | .62 | .11 |     | .18 | .69  | .11  |     |    |     | .02 |     |     |     | .12 |     |     |      | 2.95  |      |
| Johnstown        | Conemaugh      |              | .15 |     |   |     | .13  | .11 |     |   |    |     | .10  | .15 | .23 | .37 |     |     | .30 | .75  |      |     |    |     | .32 |     |     |     | .12 |     | T.  |      | 2.73  |      |
| Kregar\|\|\| | Youghiogheny   | T.           | T.  |     |   | .01 | .17  |     |     |   |    | .04 | T.   | .14 | .22 | .28 |     | .05 | .52 | .13  |      |     |    | .40 | .08 |     |     | .11 | .07 | T.  |     |      | 2.22  |      |
| Lock No. 4\|\|\| | Monongahela    |              |     |     |   |     | .43  | .04 |     |   |    |     | .05  | .10 | .15 | .47 | .67 |     | .12 | .37  | .41  |     |    |     | .13 | .02 |     | .02 | .15 |     |     |      | 3.08  |      |
| Lycippus         | Conemaugh      |              |     |     |   |     | .75  |     |     |   |    |     | .47  |     |     | .50 | .10 |     | .29 | .59  | .10  |     |    |     | .63 |     |     |     | .09 |     |     |      | 3.52  |      |
| Meadville        | Allegheny      |              |     |     |   |     |      | .15 |     |   |    |     |      |     |     | .07 | .03 |     | .18 | .32  |      |     |    |     | .04 |     |     |     | .24 |     | T.  |      | 1.03  |      |
| Mount Lebanon    | Ohio           |              |     |     |   | .02 | .80  |     |     |   |    |     | .12  |     | .31 | .54 | .64 |     | .25 | .10  |      |     |    |     | .42 |     |     |     | .16 |     |     |      | 3.36  |      |
| New Castle\|\|\| | Beaver         | .21          |     |     |   |     | .27  | .01 |     |   |    |     | .09  |     | .18 | .03 | .11 |     | .07 | .20  | 1.10 | .01 |    |     | .17 | .02 |     |     | .18 | .01 | .01 | .01  | 2.68  |      |
| Newell           | Monongahela    |              |     |     |   |     | .22  |     |     |   |    |     | .12  |     | .13 | .60 | .44 |     | .30 | .19  | .40  |     |    |     |     |     |     |     | .16 |     |     |      | 2.40  |      |
| Parkers Landing\|\|\| | Allegheny      | T.           |     |     |   |     | .10  | .03 |     |   |    |     | T.   | .20 | .12 | .40 | .08 |     | .10 |      | 1.75 |     |    |     | .13 | T.  |     |     | .18 |     |     |      | 3.09  |      |
| Pennline\|\|\| | Beaver         |              | .21 |     |   |     | .10  |     |     |   |    |     |      |     | .14 | .10 | .11 |     | .12 | .24  | .47  |     |    |     | .14 |     |     |     | .24 | T.  |     |      | 1.87  |      |
| Pittsburgh***    | Ohio           | T.           |     |     |   | .10 | .40  |     |     |   |    |     | .08  |     | .32 | .35 | .01 | T.  | .28 | .06  |      |     |    |     | .25 |     |     |     | .04 | .06 | T.  |      | 1.95  |      |
| Ridgway          | Allegheny      |              |     | .13 |   |     |      |     |     |   |    |     |      | T.  | .10 | .25 | .38 |     | .11 | .22  | .82  |     |    |     | .13 | .32 |     |     | .22 | .02 | T.  |      | 2.70  |      |
| Saltsburg\|\|\| | Conemaugh      | .11          |     |     |   |     | .35  | .15 |     |   |    |     | .19  | .35 | .14 | .29 | .47 | .01 | .07 | .36  | .56  |     |    |     | .05 | .01 |     |     | .09 |     |     |      | 3.20  |      |
| Sharon\|\|\| | Beaver         | .74          |     |     |   |     | .13  |     |     |   |    |     | .03  |     | .17 | .10 | .08 |     | .16 | .14  | .50  |     |    |     | .03 |     |     |     | .16 |     |     |      | 2.24  |      |
| Somerset         | Youghiogheny   | .08          | .04 |     |   |     | .10  |     |     |   |    |     |      |     | .30 | .24 | .06 |     | .32 | .33  |      |     |    |     | .12 |     |     |     | .11 |     |     |      | 1.70  |      |
| Springdale\|\|\| | Allegheny      |              |     |     |   |     | .37  | T.  |     |   |    |     | .05  | .59 | .15 | .39 | .40 |     | .05 | .17  | .24  |     |    |     | .24 | .02 |     |     | .11 |     | T.  |      | 2.81  |      |
| Uniontown        | Monongahela    |              | T.  |     |   | T.  | .14  |     |     |   |    |     | .32  |     | .87 | .37 | .12 |     | .17 | .39  |      |     |    |     | .53 |     |     | .05 | .10 |     |     |      | 3.06  |      |
| Unity Reservoir† | Youghiogheny   | .08          |     |     |   | T.  | .65  |     |     |   |    |     | 1.20 |     | .52 | .63 | .21 |     | .31 | 1.03 |      |     |    | .40 |     |     |     | .12 |     |     |     | 5.15 |       |      |
| Vandergrift†     | Conemaugh      |              |     |     |   |     | .50  |     |     |   |    |     | .34  | .01 | .93 | .45 | .08 |     | .20 | .34  | T.   |     |    |     |     |     |     | .02 | .40 |     |     |      | 3.27  |      |
| Warren           | Allegheny      | .20          | .16 |     |   |     |      | .06 |     |   |    |     |      | .01 | .50 | .40 | .06 |     | .16 | .64  | .16  |     |    |     | .20 | .22 | .04 |     | .54 |     | .04 | .04  | 3.43  |      |
| Westford\|\|\| | Beaver         |              |     |     |   |     |      |     |     |   |    |     |      |     | .45 |     | .09 | .80 | .28 |      |      |     |    | .05 |     |     |     | .20 |     |     |     | 1.87 |       |      |
| West Newton\|\|\| | Youghiogheny   | .02          |     |     |   |     | .94  |     |     |   |    |     | .16  | .14 | .14 | .38 | .42 |     | .06 | .42  | .60  |     |    |     | .11 | .04 |     |     | .11 |     |     |      | 3.54  |      |
| Zelienople       | Ohio           |              |     |     |   |     | .03  |     | .40 |   |    |     |      |     | T.  | .64 | .08 |     |     |      |      |     |    | .46 | .31 | .11 | .25 |     | .82 |     |     |      | 3.10  |      |
| Lake Drainage.   |                |              |     |     |   |     |      |     |     |   |    |     |      |     |     |     |     |     |     |      |      |     |    |     |     |     |     |     |     |     |     |      |       |      |
| Erie***          | Lake Erie      | .16          | .13 |     |   | .02 |      | .06 |     |   |    |     | .02  |     | .17 | .05 | .01 |     | .23 | .41  |      |     |    |     | .05 | T.  |     | .03 | .27 |     | T.  |      | 1.61  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Bloersville  
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah.  
† Mdt. to mdt.



## Daily Temperatures for May, 1930

| Stations          | 1       | 2     | 3     | 4     | 5     | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14    | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24    | 25    | 26 | 27 | 28 | 29 | 30 | 31 | Mean  |
|-------------------|---------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|-------|-------|----|----|----|----|----|----|-------|
| Allentown.....    | Maximum | 83    | 86    | 73    | 77    | 88 | 89 | 94 | 91 | 85 | 84 | 75 | 75 | 85    | 68 | 65 | 68 | 77 | 58 | 57 | 65 | 73 | 83 | 89    | 75    | 58 | 67 | 53 | 62 | 68 | 61 | 74.1* |
|                   | Minimum | 45    | 54    | 53    | 48    | 48 | 54 | 65 | 65 | 57 | 52 | 48 | 43 | 49    | 56 | 50 | 47 | 51 | 49 | 45 | 46 | 43 | 44 | 61    | 57    | 50 | 43 | 41 | 46 | 47 | 45 | 40    |
| Altoona.....      | Maximum | 83    | 83    | 73    | 80    | 87 | 83 | 91 | 85 | 86 | 88 | 75 | 69 | 86    | 74 | 64 | 66 | 67 | 73 | 57 | 61 | 73 | 84 | 90    | 68    | 60 | 59 | 65 | 64 | 58 | 56 | 63    |
|                   | Minimum | 60    | 56    | 44    | 40    | 45 | 55 | 58 | 61 | 50 | 52 | 50 | 54 | 52    | 55 | 52 | 49 | 46 | 45 | 47 | 50 | 43 | 51 | 53    | 54    | 41 | 37 | 35 | 45 | 44 | 35 | 35    |
| Beaver Dam.....   | Maximum | 83    | 79    | 79    | 76    | 77 | 85 | 84 | 82 | 85 | 85 | 84 | 78 | 78    | 74 | 67 | 68 | 67 | 71 | 69 | 71 | 84 | 85 | 83    | 68    | 58 | 67 | 63 | 52 | 52 | 61 | 74.3  |
|                   | Minimum | 51    | 59    | 42    | 37    | 42 | 59 | 56 | 56 | 52 | 53 | 54 | 61 | 50    | 58 | 55 | 52 | 55 | 47 | 56 | 52 | 44 | 51 | 52    | 51    | 41 | 35 | 37 | 49 | 45 | 34 | 36    |
| Bellefonte.....   | Maximum | 82    | 83    | 70    | 79    | 87 | 88 | 90 | 86 | 84 | 84 | 74 | 70 | 83    | 64 | 64 | 64 | 72 | 57 | 59 | 58 | 73 | 82 | 89    | 70    | 58 | 58 | 67 | 55 | 59 | 55 | 62    |
|                   | Minimum | 53    | 50    | 43    | 39    | 37 | 60 | 54 | 54 | 43 | 46 | 43 | 48 | 47    | 54 | 50 | 46 | 47 | 45 | 46 | 42 | 39 | 48 | 52    | 42    | 38 | 39 | 32 | 44 | 42 | 32 | 36    |
| Brookville.....   | Maximum | 83    | 79    | 69    | 78    | 83 | 84 | 89 | 84 | 85 | 86 | 83 | 78 | 80    | 73 | 65 | 67 | 71 | 50 | 68 | 57 | 74 | 83 | 85    | ..... | 65 | 58 | 65 | 59 | 54 | 53 | 60    |
|                   | Minimum | ..... | ..... | ..... | ..... | 53 | 47 | 49 | 41 | 45 | 37 | 45 | 44 | 52    | 44 | 43 | 45 | 44 | 49 | 36 | 33 | 43 | 45 | ..... | 34    | 23 | 27 | 43 | 29 | 26 | 29 | 40.4† |
| Butler.....       | Maximum | 85    | 80    | 76    | 82    | 69 | 88 | 88 | 86 | 89 | 90 | 86 | 82 | 81    | 78 | 69 | 70 | 71 | 68 | 69 | 67 | 75 | 86 | 86    | 84    | 62 | 63 | 66 | 60 | 58 | 55 | 62    |
|                   | Minimum | 52    | 63    | 39    | 32    | 35 | 59 | 56 | 56 | 47 | 48 | 56 | 56 | 47    | 56 | 63 | 45 | 50 | 45 | 50 | 47 | 40 | 47 | 47    | 45    | 40 | 34 | 32 | 45 | 34 | 29 | 35    |
| Carlisle.....     | Maximum | 86    | 87    | 83    | 86    | 93 | 86 | 95 | 92 | 93 | 92 | 88 | 75 | 88    | 85 | 82 | 73 | 82 | 79 | 65 | 69 | 80 | 88 | 94    | 91    | 65 | 67 | 72 | 70 | 66 | 65 | 70    |
|                   | Minimum | 56    | 50    | 58    | 50    | 43 | 64 | 59 | 64 | 54 | 57 | 49 | 54 | 46    | 57 | 58 | 47 | 48 | 48 | 50 | 57 | 41 | 54 | 51    | 53    | 41 | 44 | 42 | 50 | 46 | 40 | 50.7  |
| Catawissa.....    | Maximum | 88    | 87    | 75    | 80    | 91 | 90 | 96 | 91 | 89 | 86 | 78 | 77 | 87    | 71 | 67 | 70 | 80 | 68 | 54 | 68 | 78 | 87 | 87    | 81    | 65 | 63 | 72 | 53 | 67 | 63 | 72    |
|                   | Minimum | 40    | 52    | 43    | 39    | 39 | 54 | 57 | 57 | 49 | 45 | 46 | 43 | 49    | 50 | 49 | 46 | 50 | 44 | 49 | 49 | 36 | 43 | 53    | 65    | 41 | 42 | 37 | 44 | 45 | 39 | 37    |
| Chambersburg..... | Maximum | 82    | 84    | 81    | 81    | 86 | 79 | 91 | 87 | 86 | 84 | 81 | 68 | 84    | 76 | 70 | 78 | 75 | 58 | 66 | 76 | 83 | 88 | 84    | 64    | 63 | 68 | 71 | 65 | 63 | 66 | 76.1  |
|                   | Minimum | 58    | 50    | 46    | 42    | 40 | 59 | 54 | 60 | 53 | 51 | 54 | 52 | 46    | 57 | 53 | 48 | 46 | 49 | 49 | 52 | 38 | 48 | 51    | 55    | 40 | 41 | 39 | 49 | 48 | 39 | 38    |
| Claysville.....   | Maximum | 85    | 82    | 78    | 84    | 73 | 87 | 89 | 87 | 86 | 89 | 89 | 84 | 81    | 76 | 70 | 71 | 75 | 59 | 52 | 46 | 58 | 61 | 41    | 51    | 52 | 51 | 36 | 30 | 42 | 51 | 44    |
|                   | Minimum | 60    | 63    | 37    | 34    | 41 | 59 | 61 | 56 | 52 | 54 | 52 | 63 | 57    | 56 | 49 | 49 | 52 | 46 | 58 | 60 | 75 | 88 | 91    | 85    | 62 | 63 | 72 | 70 | 58 | 59 | 67    |
| Clearfield.....   | Maximum | 95    | 83    | 73    | 87    | 88 | 87 | 93 | 92 | 92 | 94 | 84 | 80 | 85    | 78 | 70 | 68 | 76 | 64 | 60 | 66 | 64 | 66 | 46    | 36    | 45 | 49 | 52 | 38 | 36 | 31 | 30    |
|                   | Minimum | 50    | 49    | 37    | 31    | 36 | 55 | 52 | 57 | 44 | 47 | 40 | 45 | 49    | 55 | 51 | 48 | 43 | 44 | 46 | 46 | 46 | 46 | 36    | 45    | 49 | 52 | 38 | 36 | 31 | 30 | 43    |
| Coatesville.....  | Maximum | 84    | 84    | 76    | 79    | 89 | 86 | 93 | 90 | 87 | 83 | 76 | 74 | 84    | 73 | 66 | 69 | 79 | 68 | 55 | 68 | 76 | 84 | 88    | 82    | 64 | 61 | 35 | 48 | 48 | 46 | 36    |
|                   | Minimum | 50    | 53    | 45    | 45    | 63 | 62 | 62 | 58 | 57 | 46 | 35 | 55 | 55    | 57 | 52 | 50 | 49 | 52 | 42 | 52 | 44 | 53 | 59    | 55    | 48 | 41 | 35 | 48 | 48 | 40 | 64    |
| Corry.....        | Maximum | 76    | 75    | 66    | 77    | 79 | 84 | 90 | 86 | 85 | 88 | 88 | 82 | ..... | 79 | 67 | 63 | 65 | 54 | 66 | 60 | 76 | 85 | 85    | 80    | 55 | 55 | 63 | 50 | 57 | 54 | 59    |
|                   | Minimum | 54    | 60    | 35    | 31    | 39 | 50 | 55 | 54 | 46 | 49 | 42 | 54 | ..... | 46 | 49 | 48 | 46 | 40 | 44 | 41 | 32 | 52 | 53    | 47    | 36 | 31 | 28 | 40 | 34 | 29 | 29    |
| Emporium.....     | Maximum | 81    | 80    | 66    | 75    | 84 | 84 | 89 | 83 | 83 | 82 | 78 | 75 | 79    | 65 | 64 | 63 | 70 | 61 | 57 | 57 | 74 | 82 | 84    | 65    | 55 | 63 | 50 | 57 | 54 | 59 | 70.1  |
|                   | Minimum | 51    | 48    | 38    | 31    | 35 | 52 | 52 | 55 | 43 | 48 | 35 | 42 | 49    | 55 | 55 | 50 | 55 | 45 | 47 | 45 | 36 | 51 | 50    | 52    | 39 | 42 | 28 | 45 | 42 | 30 | 32    |
| Erie.....         | Maximum | 78    | 76    | 63    | 68    | 80 | 82 | 84 | 78 | 79 | 74 | 73 | 80 | 77    | 65 | 60 | 64 | 59 | 49 | 68 | 54 | 73 | 80 | 86    | 66    | 52 | 54 | 58 | 49 | 53 | 52 | 44    |
|                   | Minimum | 62    | 52    | 48    | 46    | 56 | 62 | 67 | 63 | 59 | 61 | 53 | 61 | 59    | 55 | 53 | 50 | 48 | 44 | 46 | 44 | 50 | 65 | 66    | 49    | 46 | 43 | 40 | 43 | 45 | 43 | 44    |
| Franklin.....     | Maximum | 82    | 69    | 68    | 81    | 79 | 84 | 87 | 85 | 88 | 87 | 88 | 80 | 80    | 75 | 64 | 65 | 67 | 55 | 66 | 61 | 76 | 74 | 85    | 69    | 61 | 57 | 66 | 56 | 54 | 55 | 63    |
|                   | Minimum | 50    | 64    | 39    | 33    | 38 | 49 | 54 | 56 | 46 | 49 | 43 | 54 | 48    | 52 | 52 | 50 | 46 | 43 | 46 | 45 | 40 | 43 | 49    | 48    | 38 | 33 | 31 | 43 | 42 | 30 | 32    |
| Freeland.....     | Maximum | 81    | 79    | 66    | 70    | 85 | 84 | 89 | 86 | 80 | 77 | 70 | 72 | 80    | 73 | 62 | 60 | 72 | 68 | 50 | 59 | 72 | 81 | 88    | 78    | 56 | 53 | 63 | 54 | 58 | 56 | 56    |
|                   | Minimum | 57    | 57    | 45    | 43    | 55 | 61 | 65 | 61 | 58 | 50 | 43 | 44 | 50    | 60 | 45 | 45 | 51 | 39 | 40 | 44 | 39 | 57 | 63    | 47    | 42 | 37 | 34 | 43 | 39 | 37 | 36    |
| Gettysburg.....   | Maximum | 87    | 85    | 81    | 82    | 91 | 82 | 94 | 89 | 89 | 83 | 79 | 69 | 85    | 81 | 71 | 71 | 81 | 77 | 55 | 69 | 78 | 85 | 89    | 78    | 65 | 61 | 70 | 73 | 68 | 63 | 67    |
|                   | Minimum | 59    | 55    | 51    | 47    | 47 | 66 | 60 | 66 | 62 | 60 | 55 | 55 | 49    | 60 | 52 | 52 | 49 | 49 | 50 | 54 | 44 | 53 | 56    | 55    | 44 | 43 | 42 | 50 | 47 | 46 | 43    |
| Greensburg.....   | Maximum | 82    | 81    | 84    | 80    | 83 | 83 | 87 | 83 | 85 | 87 | 86 | 80 | 80    | 74 | 64 | 68 | 73 | 64 | 72 | 65 | 74 | 83 | 85    | 81    | 63 | 59 | 67 | 66 | 59 | 55 | 63    |
|                   | Minimum | 58    | 61    | 43    | 37    | 43 | 58 | 60 | 61 | 56 | 58 | 55 | 59 | 53    | 56 | 48 | 50 | 53 | 48 | 56 | 52 | 44 | 53 | 55    | 51    | 40 | 35 | 38 | 50 | 43 | 31 | 36    |
| Grove City.....   | Maximum | 81    | 79    | 71    | 76    | 78 | 83 | 85 | 83 | 84 | 85 | 87 | 80 | 79    | 74 | 67 | 64 | 67 | 67 | 67 | 66 | 64 | 74 | 80    | 82    | 75 | 60 | 57 | 62 | 60 | 51 | 51    |
|                   | Minimum | 55    | 65    | 39    | 35    | 41 | 56 | 54 | 58 | 54 | 49 | 52 | 55 | 48    | 49 | 52 | 51 | 50 | 42 | 49 | 45 | 41 | 51 | 52    | 47    | 38 | 32 | 33 | 44 | 42 | 30 | 38    |
| Hamburg.....      | Maximum | 83    | 85    | 78    | 78    | 87 | 86 | 93 | 91 | 88 | 86 | 85 | 84 | 76    | 72 | 68 | 66 | 76 | 75 | 60 | 66 | 74 | 86 | 88    | 87    | 70 | 60 | 67 | 56 | 62 | 58 | 64    |
|                   | Minimum | 49    | 50    | 41    | 51    | 41 | 55 | 62 | 50 | 45 | 45 | 46 | 40 | 36    | 37 | 49 | 43 | 44 | 44 | 44 | 44 | 48 | 57 | 52    | 56    | 48 | 46 | 41 | 37 | 43 | 37 | 39    |
| Harrisburg.....   | Maximum | 84    | 83    | 74    | 80    | 88 | 84 | 91 | 89 | 86 | 85 | 74 | 65 | 84    | 70 | 64 | 69 | 78 | 64 | 55 | 65 | 75 | 85 | 88    | 73    | 62 | 61 | 69 | 61 | 62 | 60 | 65    |
|                   | Minimum | 57    | 57    | 52    | 52    | 67 | 64 | 68 | 62 | 61 | 53 | 49 | 53 | 55    | 53 | 52 | 54 | 48 | 48 | 48 | 48 | 55 | 47 | 59    | 60    | 51 | 48 | 45 | 45 | 51 | 49 | 46    |
| Hawley.....       | Maximum | 84    | 84    | 75    | 72    | 87 | 88 | 91 | 85 | 82 | 80 | 79 | 76 | 80    | 81 | 59 | 64 | 74 | 69 | 50 | 55 | 74 | 84 | 80    | 82    | 61 | 56 | 60 | 57 | 54 | 58 | 57    |
|                   | Minimum | 47    | 50    | 46    | 40    | 39 | 52 | 53 | 56 | 46 | 38 | 36 | 36 | 50    | 51 | 45 | 47 | 42 | 44 | 43 | 46 | 34 | 43 | 53    | 53    | 46 | 40 | 34 | 40 | 41 | 33 | 36    |
| Huntingdon.....   | Maximum | 84    | 85    | 75    | 83    | 89 | 86 | 90 | 87 | 89 | 87 | 79 | 73 | 86    | 76 | 68 | 69 | 76 | 68 | 59 | 76 | 86 | 88 | 88    | 69    | 62 | 63 | 69 | 63 | 61 | 60 | 65    |
|                   | Minimum | 43    | 51    | 46    | 41    | 38 | 60 | 53 | 53 | 47 | 49 | 44 | 47 | 47    | 55 | 54 | 50 | 47 | 48 | 48 | 48 | 53 | 38 | 46    | 49    | 44 | 40 | 42 | 31 | 45 | 47 | 31    |
| Johnstown.....    | Maximum | 87    | 83    | 74    | 87    | 88 | 89 | 95 | 92 | 93 | 94 | 88 | 86 | 85    | 76 | 62 | 68 | 55 | 57 | 52 | 50 | 51 | 50 | 53    | 52    | 45 | 41 | 39 | 49 | 46 | 36 | 40    |
|                   | Minimum | 59    | 58    | 46    | 39    | 52 | 61 | 57 | 50 | 52 | 52 | 56 | 55 | 57    | 52 | 50 | 51 | 50 | 53 | 52 | 45 | 50 | 52 | 52    | 45    | 41 | 39 | 49 | 46 | 36 | 40 | 50.0  |
| Lancaster.....    | Maximum | 88    | 89    | 85    | 84    | 94 | 89 | 95 | 93 | 90 | 86 | 83 | 75 | 83    | 74 | 67 | 71 | 81 | 77 | 57 | 72 | 79 | 86 | 90    | 85    | 66 | 66 | 76 |    |    |    |       |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. JUNE, 1930. No. 6

## GENERAL SUMMARY.

Temperatures and precipitation for June averaged near the normal, but the temperature extremes were greater than usual. A minimum of 22°, within 2° of the June record, occurred at Somerset on the 1st. On that date freezing occurred over large areas in the northern and western portions of the State, and vegetation was frozen to a serious extent. It became necessary to replant a large portion of the corn in those regions. A drought condition, which began about the middle of May, extended over the first five days of June, and became severe enough to stunt the growth of crops. On the 6th local showers began and became more numerous until the 9th and 10th when heavy general rains furnished the much needed relief. During the remainder of the month the rainfall was ample, and crops of all kinds improved steadily. Good crops of wheat and rye ripened earlier than usual, and were ready for harvest at the close of the month. Corn made a fine growth, and first plantings were good to excellent. Potatoes and tobacco were reported to be better than average crops. Potato beetles were unusually numerous in some sections, and required extra work in spraying. Oats headed on rather short straw, but promised to be about an average crop. Orchard fruits were considerably below the average. Apples were estimated to portend about 55 percent of an average crop, and peaches less than a third of a crop. The month was comparatively free from damaging storms until the 26th when severe thunderstorms occurred in the central and eastern portions of the State. Some damage was done by hail, while the winds destroyed many trees and beat down considerable grain. A farmer near Carlisle was killed by lightning. At Bridgeport, near Norristown, many buildings were unroofed, possibly by tornadic action.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 88 stations, was 69.1°, which is 0.9° warmer than the June normal. The highest mean, 75.4°, was recorded at Philadelphia-Germantown, and the lowest, 60.5°, was reported from Elk Lick. The highest temperature for the month was 100°, recorded at Holtwood on the 5th. The lowest for the month was 22°, at Somerset on the 1st. The greatest daily range of temperature was 54° at Hyndman on the 2d and 3d.

## PRECIPITATION.

The average precipitation for the State as shown from reports of 133 stations, was 4.20 inches, which is an excess of 0.10 inch as compared with the June normal. The greatest monthly amount was 13.02 inches at Center Hall, while the least was 1.56 inches at Pottstown. The greatest amount recorded in any 24 consecutive hours was 5.75 inches at Center Hall on the 26th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 323.5                   | 455.1                    | 71                     | 76               | 69       | 71      | 8,690                    | 12.1                        | 37        | sw.       |
| Harrisburg.....   | 366.6                   | 448.9                    | 82                     | 69               | 49       | 68      | 4,124                    | 5.7                         | 31        | nw.       |
| Philadelphia..... | 325.0                   | 448.9                    | 72                     | 68               | 51       | 61      | 8,295                    | 11.5                        | 51        | nw.       |
| Pittsburgh.....   | 322.3                   | 452.0                    | 71                     | 71               | 53       | 53      | 6,443                    | 8.9                         | 29        | nw.       |
| Reading.....      | 327.2                   | 448.9                    | 73                     | 64               | 45       | 59      | 3,935                    | 5.5                         | 20        | se.       |
| Scranton.....     | 330.8                   | 452.0                    | 73                     | 71               | 49       | 56      | 4,434                    | 6.2                         | 21        | se.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR JUNE

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 68.4        | 100     | 30     | 3.04          | 6.90     | 1.08  | .....       | .....         | .....  | 9                      |
| 1889..... | 66.7        | 95      | 33     | 5.43          | 10.04    | 2.71  | .....       | .....         | .....  | 15                     |
| 1890..... | 70.1        | 97      | 33     | 3.42          | 5.74     | 1.30  | 12          | 11            | 7      | 9                      |
| 1891..... | 68.2        | 100     | 30     | 4.50          | 9.30     | 1.22  | 14          | 8             | 8      | 11                     |
| 1892..... | 71.8        | 99      | 40     | 5.64          | 10.55    | 1.83  | 5           | 11            | 10     | 13                     |
| 1893..... | 69.8        | 100     | 38     | 3.12          | 6.50     | 1.20  | 10          | 11            | 9      | 9                      |
| 1894..... | 69.6        | 102     | 30     | 2.57          | 5.31     | 0.61  | 13          | 12            | 5      | 10                     |
| 1895..... | 71.4        | 104     | 32     | 3.50          | 9.21     | 0.69  | 13          | 10            | 7      | 9                      |
| 1896..... | 67.4        | 98      | 32     | 4.64          | 9.11     | 1.89  | 10          | 11            | 9      | 11                     |
| 1897..... | 64.8        | 96      | 28     | 3.38          | 6.42     | 1.11  | 11          | 11            | 8      | 11                     |
| 1898..... | 69.6        | 100     | 33     | 2.79          | 6.96     | 0.56  | 14          | 11            | 5      | 9                      |
| 1899..... | 69.9        | 101     | 32     | 3.51          | 5.97     | 0.65  | 13          | 11            | 6      | 9                      |
| 1900..... | 69.9        | 97      | 35     | 3.60          | 10.29    | 1.35  | 11          | 12            | 7      | 10                     |
| 1901..... | 69.1        | 103     | 32     | 3.47          | 7.61     | 0.88  | 12          | 11            | 7      | 10                     |
| 1902..... | 66.0        | 97      | 32     | 5.97          | 8.93     | 3.35  | 11          | 12            | 7      | 13                     |
| 1903..... | 63.5        | 90      | 34     | 6.53          | 11.76    | 3.74  | 7           | 10            | 13     | 15                     |
| 1904..... | 67.9        | 96      | 32     | 4.06          | 6.67     | 1.62  | 12          | 10            | 8      | 13                     |
| 1905..... | 68.0        | 99      | 30     | 4.39          | 8.35     | 1.77  | 11          | 10            | 9      | 13                     |
| 1906..... | 69.3        | 97      | 28     | 5.43          | 10.29    | 1.40  | 11          | 12            | 7      | 13                     |
| 1907..... | 63.6        | 98      | 30     | 4.99          | 8.55     | 2.79  | 11          | 9             | 10     | 12                     |
| 1908..... | 68.8        | 102     | 28     | 2.36          | 4.61     | 0.58  | 19          | 9             | 2      | 7                      |
| 1909..... | 68.8        | 96      | 34     | 4.48          | 8.96     | 1.89  | 12          | 9             | 9      | 13                     |
| 1910..... | 65.4        | 95      | 32     | 4.31          | 8.68     | 1.33  | 12          | 8             | 10     | 11                     |
| 1911..... | 68.3        | 99      | 38     | 4.71          | 10.11    | 2.13  | 12          | 10            | 8      | 12                     |
| 1912..... | 65.6        | 96      | 29     | 3.36          | 8.58     | 0.79  | 13          | 9             | 8      | 8                      |
| 1913..... | 68.2        | 99      | 20     | 2.26          | 7.61     | 0.66  | 19          | 7             | 4      | 7                      |
| 1914..... | 68.6        | 101     | 25     | 3.71          | 7.05     | 1.17  | 16          | 8             | 6      | 9                      |
| 1915..... | 69.6        | 89      | 48     | 3.30          | 8.04     | 0.74  | 8           | 14            | 8      | 11                     |
| 1916..... | 63.7        | 89      | 28     | 6.14          | 12.45    | 2.83  | 11          | 10            | 9      | 15                     |
| 1917..... | 66.8        | 92      | 32     | 5.38          | 9.85     | 2.25  | 12          | 11            | 7      | 14                     |
| 1918..... | 66.0        | 98      | 29     | 3.42          | 2.65     | 0.44  | 13          | 11            | 6      | 10                     |
| 1919..... | 71.2        | 102     | 32     | 3.90          | 9.17     | 1.74  | 16          | 9             | 5      | 10                     |
| 1920..... | 67.0        | 99      | 32     | 4.97          | 8.37     | 2.25  | 12          | 11            | 7      | 13                     |
| 1921..... | 70.6        | 101     | 26     | 3.12          | 9.86     | 0.70  | 17          | 9             | 4      | 8                      |
| 1922..... | 69.5        | 96      | 30     | 5.11          | 12.46    | 1.78  | 11          | 11            | 8      | 13                     |
| 1923..... | 70.9        | 103     | 32     | 2.73          | 7.99     | 0.41  | 16          | 9             | 5      | 9                      |
| 1924..... | 65.8        | 98      | 26     | 5.57          | 9.75     | 2.23  | 11          | 11            | 8      | 15                     |
| 1925..... | 71.9        | 104     | 29     | 3.04          | 7.02     | 0.62  | 16          | 11            | 3      | 9                      |
| 1926..... | 64.1        | 94      | 23     | 3.63          | 6.56     | 1.20  | 13          | 10            | 7      | 12                     |
| 1927..... | 63.8        | 99      | 25     | 3.72          | 6.78     | 1.59  | 15          | 8             | 7      | 9                      |
| 1928..... | 65.5        | 93      | 30     | 7.96          | 13.14    | 3.96  | 9           | 9             | 12     | 17                     |
| 1929..... | 67.8        | 98      | 28     | 3.56          | 6.77     | 1.10  | 15          | 10            | 5      | 10                     |
| 1930..... | 69.1        | 100     | 22     | 4.20          | 13.02    | 1.56  | 17          | 8             | 5      | 9                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 3.1        | 6.4           | 11   | 2.3          | 27   | 18          |
| Phillipsburg..... | Delaware.....     | 2.8        | 8.2           | 18   | 1.2          | 13   | 22          |
| Mauch Chunk.....  | Lehigh.....       | -2.4       | -0.7          | 11   | -3.7         | 30   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 4.9        | 9.3           | 20   | 3.4          | 18   | 20          |
| Williamsport..... | Susquehanna.....  | 2.4        | 5.1           | 19   | 1.2          | 6    | 20          |
| Harrisburg.....   | Susquehanna.....  | 4.4        | 5.8           | 21   | 3.9          | 8    | 17          |
| Greensboro.....   | Monongahela.....  | 10.9       | 14.2          | 11   | 10.2         | 5    | 30          |
| West Newton.....  | Youghiogheny..... | 1.1        | 5.4           | 11   | 0.1          | 6    | 20          |
| Lock No. 4.....   | Monongahela.....  | 13.4       | 16.1          | 11   | 12.5         | 5    | 31          |
| Pittsburgh.....   | Ohio.....         | 10.7       | 13.6          | 11   | 10.0         | 6    | 25          |
| Beaver Dam.....   | Ohio.....         | 8.0        | 10.4          | 12   | 7.1          | 25   | 30          |



## Climatological Data for June, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        | Precipitation, in inches |                      |       |                           | No. of days          |                           |                              | Prevailing direction of wind | Observers |       |            |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|--------------------------|----------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|------------------------------|-----------|-------|------------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date                     | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more |                              |           | Clear | Pt. cloudy | Cloudy                       |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |       |        |                          |                      |       |                           |                      |                           |                              |                              |           |       |            |                              |
| Allentown          | Lehigh       | 254             | 19                      | 71.0                         | .....                     | 93      | 26    | 42     | 1                        | 37                   | 2.65  | -0.79                     | 0.84                 | 0                         | 8                            | 23                           | 3         | 4     | sw.        | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 43                      | 67.0                         | +1.5                      | 93      | 51    | 43     | 1                        | 40                   | 2.53  | -1.39                     | 1.08                 | 0                         | 8                            | 23                           | 5         | 2     | w.         | F. E. Rooney.                |
| Arendtsville       | Adams        | 700             | 6                       | 69.4                         | .....                     | 90      | 5     | 38     | 1                        | 43                   | 3.56  | .....                     | 1.52                 | 0                         | 7                            | 19                           | 6         | 5     | nw.        | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 25                      | 66.6                         | .....                     | 90      | 5     | 33     | 1                        | 44                   | 5.67  | +0.67                     | 1.45                 | 0                         | 11                           | 11                           | 13        | 6     | sw.        | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 44                      | 73.0                         | +3.2                      | 94      | 26    | 48     | 1                        | 34                   | 2.96  | -1.21                     | 1.08                 | 0                         | 8                            | 17                           | 4         | 9     | sw.        | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 64                      | 73.0                         | +2.1                      | 99      | 4     | 38     | 1                        | 51                   | 5.66  | +1.82                     | 2.25                 | 0                         | 8                            | 25                           | 2         | 3     | s.         | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 34                      | 72.4                         | +4.7                      | 97      | 5     | 35     | 1                        | 48                   | 4.16  | +0.27                     | 3.15                 | 0                         | 7                            | 23                           | 5         | 2     | .....      | W. L. Gearhart.              |
| Center Hall        | Center       | 1,272           | 34                      | 66.2                         | +0.1                      | 92      | 47    | 41     | 1                        | 47                   | 13.02 | +9.02                     | 5.75                 | 0                         | 9                            | 25                           | 2         | 3     | .....      | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 31                      | 69.8                         | +0.4                      | 94      | 47    | 32     | 1                        | 48                   | 3.61  | -0.40                     | 1.45                 | 0                         | 10                           | 14                           | 12        | 4     | sw.        | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 21                      | 66.8                         | -0.5                      | 95      | 30    | 31     | 1                        | 51                   | 4.09  | -0.97                     | 1.68                 | 0                         | 9                            | 17                           | 10        | 3     | w.         | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 43                      | 72.1                         | +2.2                      | 94      | 26    | 34     | 1                        | 44                   | 3.39  | -0.65                     | 1.30                 | 0                         | 8                            | 14                           | 13        | 3     | s.         | Prof. W. T. Gordon.          |
| Colebrook          | Lebanon      | 560             | 21                      | 69.4                         | +0.3                      | 92      | 47    | 35     | 1                        | 42                   | 3.49  | -0.51                     | 1.15                 | 0                         | 10                           | 21                           | 5         | 4     | w.         | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 43                      | 65.0                         | -1.2                      | 89      | 30    | 32     | 1                        | 45                   | 4.78  | +0.25                     | 1.75                 | 0                         | 8                            | 16                           | 10        | 4     | w.         | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 30                      | 71.6                         | +3.6                      | 93      | 26    | 37     | 1                        | 41                   | 3.57  | -0.65                     | 1.26                 | 0                         | 9                            | 21                           | 6         | 3     | w.         | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 15                      | 68.2                         | .....                     | 89      | 5     | 42     | 1                        | 32                   | 4.10  | .....                     | 0.96                 | 0                         | 10                           | 12                           | 12        | 6     | sw.        | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 24                      | .....                        | .....                     | 95      | 26    | 40     | 1                        | 42                   | 3.80  | +0.57                     | 1.35                 | 0                         | 10                           | 21                           | 1         | 8     | s.         | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 57                      | 72.2                         | +2.6                      | 95      | 47    | 39     | 1                        | 43                   | 3.08  | -0.82                     | 0.79                 | 0                         | 10                           | 20                           | 6         | 4     | s.         | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 27                      | 67.6                         | +2.4                      | 92      | 57    | 30     | 1                        | 48                   | 4.62  | +0.22                     | 1.32                 | 0                         | 9                            | 16                           | 10        | 4     | w.         | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 62.9                         | .....                     | 89      | 5     | 28     | 1                        | 49                   | 4.98  | +0.25                     | 1.30                 | 0                         | 7                            | 20                           | 6         | 4     | w.         | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 37                      | 68.2                         | -0.9                      | 92      | 4     | 35     | 1                        | 44                   | 2.49  | -1.73                     | 1.86                 | 0                         | 5                            | 21                           | 4         | 5     | w.         | State Sanatorium.            |
| Hanover            | York         | 600             | 27                      | 72.9                         | +2.3                      | 95      | 47    | 40     | 1                        | 40                   | 6.04  | +2.31                     | 1.03                 | 0                         | 9                            | 21                           | 7         | 2     | s.         | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 61                      | 72.8                         | +2.5                      | 95      | 4     | 45     | 1                        | 35                   | 5.38  | +1.79                     | 1.94                 | 0                         | 9                            | 15                           | 10        | 5     | w.         | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 12                      | 67.4                         | .....                     | 92      | 5     | 33     | 1                        | 45                   | 3.11  | .....                     | 1.47                 | 0                         | 9                            | 16                           | 10        | 4     | w.         | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 15                      | 75.0                         | .....                     | 100     | 5     | 45     | 1                        | 37                   | 2.65  | -0.48                     | 0.83                 | 0                         | 8                            | 15                           | 10        | 5     | .....      | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 43                      | 68.2                         | 0.0                       | 96      | 5     | 29     | 1                        | 52                   | 3.65  | -0.83                     | 1.07                 | 0                         | 11                           | 17                           | 10        | 3     | sw.        | Prof. H. A. Conner.          |
| Hyndman            | Bedford      | 977             | 18                      | 70.4                         | +3.0                      | 99      | 47    | 29     | 1                        | 54                   | 3.19  | -2.13                     | 1.74                 | 0                         | 11                           | 14                           | 7         | 9     | .....      | Horace A. Sheavly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | 65.0                         | .....                     | 89      | 30    | 34     | 1                        | 41                   | 3.52  | .....                     | 1.64                 | 0                         | 12                           | 17                           | 8         | 5     | w.         | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 43                      | 71.2                         | +1.1                      | 96      | 47    | 34     | 1                        | 49                   | 3.43  | -0.56                     | 1.20                 | 0                         | 9                            | 27                           | 1         | 2     | nw.        | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 66.0                         | +0.8                      | 90      | 157   | 33     | 1                        | 44                   | 6.62  | +2.73                     | 2.65                 | 0                         | 9                            | 18                           | 8         | 4     | .....      | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 90                      | 72.1                         | +2.8                      | 94      | 5     | 42     | 1                        | 38                   | 4.15  | +0.09                     | 1.19                 | 0                         | 9                            | 20                           | 7         | 3     | sw.        | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 56                      | 71.2                         | +4.0                      | 95      | 47    | 38     | 1                        | 45                   | 4.91  | +0.75                     | 1.87                 | 0                         | 9                            | 19                           | 4         | 7     | w.         | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 42                      | 71.1                         | +1.7                      | 98      | 47    | 36     | 1                        | 45                   | 6.57  | +2.17                     | 1.45                 | 0                         | 10                           | 15                           | 13        | 2     | w.         | Joseph Beaver.               |
| Lykens             | Dauphin      | 680             | 16                      | 69.0                         | +0.8                      | 95      | 5     | 32     | 1                        | 49                   | 4.57  | -0.01                     | 1.42                 | 0                         | 8                            | 17                           | 11        | 2     | sw.        | Susquehanna Collieries Co.   |
| Mauch Chunk        | Carbon       | 600             | 41                      | 69.8                         | +2.0                      | 96      | 26    | 40     | 1                        | 49                   | 2.83  | -1.47                     | 1.51                 | 0                         | 7                            | 18                           | 8         | 4     | sw.        | R. K. Wintermute.            |
| Midlinton          | Juniata      | 445             | 27                      | 70.2                         | +2.4                      | 95      | 47    | 35     | 1                        | 48                   | 4.57  | +0.21                     | 1.76                 | 0                         | 9                            | 20                           | 3         | 7     | w.         | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 28                      | 64.8                         | -2.1                      | 86      | 5     | 35     | 1                        | 35                   | 5.30  | +1.48                     | 1.60                 | 0                         | 10                           | 15                           | 9         | 6     | w.         | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 65.8                         | +4.2                      | 88      | 5     | 37     | 1                        | 39                   | 5.19  | +0.40                     | 3.80                 | 0                         | 9                            | 12                           | 14        | 4     | sw.        | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 65.4                         | -0.3                      | 90      | 5     | 33     | 1                        | 46                   | 3.38  | -1.72                     | 1.56                 | 0                         | 11                           | 18                           | 6         | 6     | w.         | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 11                      | .....                        | .....                     | .....   | ..... | .....  | .....                    | .....                | ..... | .....                     | .....                | .....                     | .....                        | .....                        | .....     | ..... | .....      | Charles Decker.              |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 70.7                         | +1.5                      | 94      | 4     | 36     | 1                        | 44                   | 5.07  | .....                     | 1.58                 | 0                         | 10                           | 21                           | 3         | 6     | sw.        | North Springfield Water Co.  |
| Palmerton          | Carbon       | 398             | 14                      | 70.2                         | .....                     | 92      | 4     | 36     | 1                        | 46                   | 2.71  | .....                     | 1.02                 | 0                         | 7                            | 11                           | 14        | 5     | sw.        | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 59                      | 75.2                         | +3.8                      | 94      | 26    | 51     | 1                        | 28                   | 4.96  | +1.72                     | 2.81                 | 0                         | 11                           | 9                            | 15        | 6     | sw.        | U. S. Weather Bureau.        |
| Philadelphia-Gtn.  | Philadelphia | 113             | 6                       | 75.4                         | .....                     | 95      | 26    | 49     | 1                        | 30                   | 5.59  | .....                     | 3.00                 | 0                         | 9                            | 11                           | 17        | 2     | .....      | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 73.6                         | +1.8                      | 92      | 26    | 50     | 1                        | 30                   | 4.32  | +0.68                     | 1.84                 | 0                         | 11                           | .....                        | .....     | ..... | .....      | Commandant, Navy Yard.       |
| Phila-Point Breeze | Philadelphia | 90              | 5                       | 75.1                         | .....                     | 96      | 26    | 47     | 1                        | 33                   | 4.87  | .....                     | 2.53                 | 0                         | 11                           | 13                           | 7         | 10    | sw.        | Atlantic Refining Co.        |
| Phoenixville       | Chester      | 100             | 20                      | 74.5                         | +3.0                      | 98      | 47    | 38     | 2                        | 53                   | 2.68  | -0.98                     | 0.83                 | 0                         | 6                            | 24                           | 4         | 2     | s.         | North Springfield Water Co.  |
| Quakertown         | Bucks        | 496             | 46                      | 70.4                         | +2.2                      | 95      | 37    | 37     | 1                        | 44                   | 2.32  | -1.34                     | 0.84                 | 0                         | 7                            | 19                           | 8         | 3     | sw.        | John E. Benner.              |
| Reading            | Berks        | 325             | 61                      | 73.6                         | +3.8                      | 94      | 26    | 47     | 1                        | 32                   | 2.55  | -1.00                     | 0.64                 | 0                         | 8                            | 13                           | 13        | 4     | sw.        | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 36                      | 69.8                         | +2.0                      | 92      | 5     | 42     | 1                        | 38                   | 2.83  | -0.84                     | 1.20                 | 0                         | 9                            | 8                            | 17        | 5     | sw.        | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 42                      | 70.8                         | +1.8                      | 93      | 5     | 36     | 1                        | 43                   | 3.50  | -0.75                     | 1.15                 | 0                         | 7                            | 18                           | 7         | 5     | sw.        | Dr. George E. Fisher.        |
| Shawmont           | Philadelphia | 51              | 35                      | 74.0                         | .....                     | 95      | 26    | 42     | 1                        | 35                   | 4.48  | +1.01                     | 1.92                 | 0                         | 7                            | 17                           | 5         | 8     | w.         | W. S. Guiles.                |
| State College      | Center       | 1,217           | 46                      | 68.6                         | +2.1                      | 91      | 47    | 40     | 1                        | 37                   | 4.49  | +0.12                     | 1.25                 | 0                         | 10                           | 17                           | 7         | 6     | w.         | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 16                      | 69.3                         | +3.0                      | 94      | 47    | 42     | 2                        | 48                   | ..... | .....                     | .....                | .....                     | .....                        | 15                           | 11        | 4     | w.         | State Normal School.         |
| Towanda            | Bradford     | 754             | 36                      | 67.1                         | +1.8                      | 90      | 5     | 35     | 1                        | 42                   | 5.60  | +2.01                     | 2.02                 | 0                         | 11                           | 15                           | 6         | 9     | sw.        | Hiram E. Bull, C. E.         |
| Wellsboro          | Tioga        | 1,419           | 66                      | 64.8                         | +0.3                      | 93      | 47    | 32     | 1                        | 49                   | 5.70  | +1.65                     | 2.50                 | 0                         | 6                            | 22                           | 3         | 5     | w.         | George W. Hill.              |
| West Chester       | Chester      | 455             | 98                      | 73.4                         | +4.0                      | 95      | 26    | 42     | 1                        | 37                   | 3.84  | -0.35                     | 2.00                 | 0                         | 7                            | 18                           | 9         | 3     | w.         | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 44                      | 70.2                         | +1.7                      | 94      | 5     | 37     | 1                        | 44                   | 3.88  | -0.02                     | 1.58                 | 0                         | 10                           | 21                           | 2         | 7     | nw.        | Miss Veronica E. April.      |
| York               | York         | 400             | 43                      | 71.9                         | +2.0                      | 97      | 4     | 34     | 1                        | 48                   | 4.98  | +1.50                     | 1.90                 | 0                         | 8                            | 21                           | 8         | 1     | s.         | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |       |        |                          |                      |       |                           |                      |                           |                              |                              |           |       |            |                              |
| Beaver Dam         | Beaver       | 700             | 38                      | 68.4                         | -1.9                      | 90      | 30    | 35     | 1                        | 43                   | 4.04  | -0.61                     | 1.32                 | 0                         | 12                           | 10                           | 10        | 10    | sw.        | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 15                      | 65.3                         | +0.1                      | 92      | 47    | 30     | 1                        | 50                   | 3.97  | -0.62                     | 1.24                 | 0                         | 12                           | 13                           | 10        | 7     | sw.        | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 40                      | 63.5                         | 0.0                       | 91      | 30    | 28     | 1                        | 53                   | 3.31  | -0.94                     | 1.20                 | 0                         | 9                            | 22                           | 2         | 6     | .....      | John Fawcett.                |
| Butler             | Butler       | 1,152           | 9                       | 67.4                         | .....                     | 93      | 30    | 40     | 1                        | 46                   | 4.98  | .....                     | 2.55                 | 0                         | 7                            | 17                           | 10        | 3     | nw.        | William C. Faust.            |
| Chambersville      | Indiana      | 1,047           | .....                   | 65.6                         | .....                     | 90      | 30    | 28     | 1                        | 50                   | 4.04  | .....                     | 1.65                 | 0                         | 10                           | 11                           | 4         | 15    | w.         | John E. Lewis.               |
| Claysville         | Washington   | 1,150           |                         |                              |                           |         |       |        |                          |                      |       |                           |                      |                           |                              |                              |           |       |            |                              |



## Daily Precipitation for June, 1930

| Stations           | Drainage Basin | Day of month |    |   |   |   |      |     |     |      |      |      |      |      |     |    |     |      |      |      |     |    |     |     |     |      |      |      |     |     |     |       | Total |
|--------------------|----------------|--------------|----|---|---|---|------|-----|-----|------|------|------|------|------|-----|----|-----|------|------|------|-----|----|-----|-----|-----|------|------|------|-----|-----|-----|-------|-------|
|                    |                | 1            | 2  | 3 | 4 | 5 | 6    | 7   | 8   | 9    | 10   | 11   | 12   | 13   | 14  | 15 | 16  | 17   | 18   | 19   | 20  | 21 | 22  | 23  | 24  | 25   | 26   | 27   | 28  | 29  | 30  | 31    |       |
| Atlantic Drainage. |                |              |    |   |   |   |      |     |     |      |      |      |      |      |     |    |     |      |      |      |     |    |     |     |     |      |      |      |     |     |     |       |       |
| Allentown\|\|\| | Lehigh         |              |    |   |   |   |      | .15 |     |      | .27  | .84  | .59  |      |     |    |     |      | .09  | .01  |     |    |     |     |     | .27  |      | .43  |     |     |     |       | 2.65  |
| Altoona            | Juniata        |              |    |   |   |   | .23  |     |     | .33  | 1.08 |      |      |      |     |    |     | .45  | T    |      |     |    |     |     | .08 | .04  | .18  | .14  |     |     |     | 2.53  |       |
| Ansonia\|\|\| | W. Br. Susq.   |              |    |   |   |   | .53  |     |     | .22  | .86  | T    | T    |      |     |    |     | .67  | .68  |      |     |    |     |     | .18 | .08  |      | 2.24 | .01 |     |     | 5.47  |       |
| Arendtsville\|\|\| | Lower Susq.    |              |    |   |   |   | .05  |     |     | .30  | .23  |      |      |      |     |    |     | 1.52 | .70  |      |     |    |     |     | .65 |      | .11  |      |     |     |     | 3.56  |       |
| Baker's Summit     | Juniata        |              |    |   |   |   | .21  |     |     | .33  | 1.31 | .04  |      |      |     |    |     | .09  | .05  |      |     |    |     |     | .28 |      | .35  |      |     |     |     | 2.68  |       |
| Bellefonte***      | W. Br. Susq.   |              |    |   |   |   | 1.45 |     | .18 | .15  | .77  |      |      |      |     |    | .18 | .37  | 1.03 |      |     |    | .02 |     | .46 |      | .24  | .01  | T   |     | .83 | 5.67  |       |
| Bethlehem          | Lehigh         |              |    |   |   |   | .17  |     |     | .81  | 1.08 | .04  |      |      |     |    |     |      | .11  | .01  |     |    |     |     | .28 |      | .46  |      |     |     |     | 2.96  |       |
| Bloserville\|\| | Lower Susq.    |              |    |   |   |   | T    |     | .40 |      | .83  |      |      |      |     |    |     | 1.00 | .22  |      |     |    |     |     | .05 |      | .90  |      |     |     |     | 3.40  |       |
| Carlisle           | Lower Susq.    |              |    |   |   |   | T    |     | .32 | T    | 1.36 |      |      |      |     |    |     | 1.53 | .72  | .33  |     |    |     |     | .02 |      | 1.32 | .06  |     |     |     | 5.66  |       |
| Catawissa          | N. Br. Susq.   |              |    |   |   |   | .30  |     | .25 |      |      |      |      |      |     |    |     | 3.15 | .13  |      |     |    |     |     | .03 |      | .05  |      |     |     | .25 | 4.16  |       |
| Center Hall        | Susquehanna    |              |    |   |   |   | .55  |     | .01 | .58  | 1.75 |      |      |      |     |    |     | .88  | 3.24 |      |     |    | .18 |     |     | 5.75 |      |      |     |     | .28 | 13.02 |       |
| Chambersburg       | Potomac        |              |    |   |   |   | .04  |     | .05 | .75  | .34  |      |      | T    |     |    |     | 1.12 | .33  | .48  |     |    |     | T   | .17 | .13  | .20  |      |     |     |     | 3.61  |       |
| Clearfield         | W. Br. Susq.   |              |    |   |   |   | .31  | .23 |     | T    | .70  | .10  |      |      |     |    | .20 | 1.48 | .25  |      |     |    |     | .36 |     |      | T    | .46  |     |     |     | 4.09  |       |
| Coatesville        | Lower Del.     |              |    |   |   |   | .60  |     | .02 | .55  | .27  |      |      |      |     |    |     | T    | .25  | .25  |     |    |     |     | .15 |      | 1.30 |      |     |     |     | 3.39  |       |
| Colebrook          | Lower Susq.    |              |    |   |   |   | .36  |     | .02 | .10  | .70  |      |      | T    |     |    |     | 1.15 | .46  | .06  |     |    |     | T   |     | .05  | T    | .56  | .03 |     |     | 3.49  |       |
| Conshohocken       | Schuylkill     |              |    |   |   |   | T    | T   | .31 | .29  | .99  |      | .02  |      |     |    |     | .03  | .18  | .05  |     |    |     |     | T   |      | .81  | .03  |     |     |     | 2.71  |       |
| Cresson            | Juniata        |              |    |   |   |   | .32  |     |     | 1.08 | 1.10 |      |      |      |     |    |     | .80  | .29  |      |     |    |     |     | .32 |      | .19  |      |     |     |     | 4.10  |       |
| Dorlestown         | Lower Del.     |              |    |   |   |   | .28  | T   |     | .66  | 2.50 |      | .30  | .02  |     |    |     | T    | .20  | .86  |     |    |     |     | .11 |      | .47  |      |     | .03 |     | 5.43  |       |
| Driftwood\|\|\| | W. Br. Susq.   |              |    |   |   |   | .25  |     |     | .30  |      | 1.00 |      |      |     |    |     | 1.00 | .80  | .10  |     |    |     |     | .48 |      | .40  | .05  |     |     |     | 4.38  |       |
| Emporium           | do.            |              |    |   |   |   | .44  |     |     | .18  | 1.04 |      |      |      |     |    |     | .63  | .26  | T    |     |    |     |     | .48 |      | 1.69 | .06  |     |     |     | 4.78  |       |
| Ephrata            | Lower Susq.    |              |    |   |   |   | .16  | .01 |     | .25  | 1.01 |      |      |      |     |    |     | .16  | .31  | .35  |     |    |     |     | .06 |      | 1.26 |      |     |     |     | 3.57  |       |
| Forest City        | N. Br. Susq.   |              |    |   |   |   | .06  |     |     | .17  | 1.16 | .90  |      |      |     |    |     |      | .10  | .53  |     |    |     | .03 |     | .22  |      | .45  |     |     |     | 3.62  |       |
| Freeland\|\|\| | Lehigh         |              |    |   |   |   | .42  |     |     | .35  | .70  | .72  |      |      | .01 |    |     | T    | .45  | .30  |     |    |     |     | .04 | .15  |      | .96  | T   |     |     | 4.10  |       |
| George School      | Lower Del.     |              |    |   |   |   | .05  |     |     | .35  | 1.35 |      | 1.00 | .13  | T   |    |     | .10  | .24  | .20  |     |    |     |     | .04 |      | .34  |      |     |     |     | 3.80  |       |
| Gettysburg         | Potomac        |              |    |   |   |   | .52  |     |     | .50  | .29  |      |      |      |     |    |     | .61  | .60  | .07  |     |    |     |     | .03 | .18  | .25  | .03  |     |     |     | 3.08  |       |
| Girardville\|\|\| | Lower Susq.    |              |    |   |   |   | .66  | .24 |     |      | .90  |      |      |      |     |    |     | 2.88 | .05  |      |     |    |     |     | .23 |      | .21  |      |     |     |     | 5.17  |       |
| Gordon             | Lower Susq.    |              |    |   |   |   | .10  |     | .02 | .14  | 1.25 |      |      |      |     |    |     | 1.32 | 1.30 | .07  |     |    |     |     | .30 |      | .12  |      |     |     |     | 4.62  |       |
| Gouldsboro\|\| | Lehigh         |              |    |   |   |   | .92  |     |     | .26  | 1.15 | 1.27 |      |      |     |    |     |      | .06  |      |     |    |     | .02 |     |      | 1.30 |      |     |     |     | 4.98  |       |
| Graterford         | Schuylkill     |              |    |   |   |   | .16  |     |     | .09  | 1.46 |      |      |      |     |    |     |      | .11  | .62  |     |    |     |     | .17 |      |      | .68  |     |     |     | 3.29  |       |
| Hamburg            | Schuylkill     |              |    |   |   |   | .29  |     |     | .18  | .07  |      |      |      |     |    |     | .15  | .12  |      |     |    |     |     |     | .07  |      |      |     |     |     | 2.49  |       |
| Hanover            | Lower Susq.    |              |    |   |   |   | .40  | T   |     | .73  | 1.03 |      |      |      |     |    |     | .93  | .82  | .96  |     |    |     |     | .08 | .51  |      | .58  |     |     |     | 6.04  |       |
| Harrisburg***      | do.            |              |    |   |   |   | .25  | T   | .61 | .14  | .76  |      |      | T    |     |    |     | 1.59 | .67  | T    |     |    |     | .03 | .28 |      | 1.05 |      |     |     |     | 5.38  |       |
| Hawley\|\|\| | Upper Del.     |              |    |   |   |   | .38  |     |     | .36  | 1.47 | .37  |      |      |     |    |     | .04  | .01  |      |     |    |     | T   | .07 | .12  |      | .29  | T   |     |     | 3.11  |       |
| Hollisterville     | Upper Del.     |              |    |   |   |   | .31  |     |     | .22  | 1.09 | 1.07 |      |      |     |    |     |      | .02  |      |     |    |     | .09 |     | .48  |      | .85  | .03 |     |     |       | 4.16  |
| Holtwood\|\| | Lower Susq.    |              |    |   |   |   | .26  | .25 |     | .05  | .41  |      |      |      |     |    |     | .83  | .24  |      |     |    |     |     | T   | .07  |      | .54  |     |     |     | 2.65  |       |
| Huntingdon         | Juniata        |              |    |   |   |   | .22  |     | .04 | .38  | .44  |      |      |      |     |    |     | .21  | .28  |      |     |    |     |     | .12 | .59  | 1.07 | .26  |     |     | .04 | 3.65  |       |
| Hyndman            | Potomac        |              |    |   |   |   | .07  | .08 |     | .07  | 1.74 | .01  |      |      |     |    |     | .17  | .03  |      |     |    |     |     |     | .54  | .37  | .06  | .05 |     |     |       | 3.19  |
| Kylertown          | W. B. Susq.    |              |    |   |   |   | .21  | .09 |     | .21  | .88  | .03  |      |      |     |    | .03 | 1.64 | .05  | T    |     |    |     | .13 | .05 |      | .05  | .15  | T   | .50 | T   |       | 3.52  |
| Lakeville\|\|\| | Upper Del.     |              |    |   |   |   | .25  |     |     | .31  | .97  | 1.27 |      |      |     |    |     | .16  | .20  | .33  |     |    |     | .23 | .03 | .15  | T    | .50  | T   |     |     | 3.78  |       |
| Lancaster          | Lower Susq.    |              |    |   |   |   | .16  |     |     | .09  | .26  | .94  |      |      |     |    |     | .16  | .20  |      |     |    |     |     | .22 |      | 1.07 |      |     |     |     | 3.43  |       |
| Lansford\|\|\| | Lehigh         |              |    |   |   |   | .56  |     |     | .40  | .75  | .24  |      | T    |     |    |     | .32  |      |      |     |    |     |     |     | .10  |      | .08  |     |     |     | 2.45  |       |
| Lawrenceville      | N. Br. Susq.   |              |    |   |   |   | .25  |     |     |      | .40  | 1.00 |      |      |     |    |     | 10   | 2.65 | .70  | T   |    |     |     | .30 |      | .47  | T    |     |     | .75 | 6.62  |       |
| Lebanon            | Lower Susq.    |              |    |   |   |   | .25  | .02 | T   | .35  | .72  |      |      | T    |     |    |     | .82  | 1.19 | .01  |     |    |     |     | .15 | T    | T    | .64  |     |     |     | 4.15  |       |
| Lewisburg          | W. Br. Susq.   |              |    |   |   |   | .05  | .03 |     |      | 1.25 |      |      |      |     |    |     | .68  | 1.87 | .08  |     |    |     | T   |     | .20  |      | .65  |     |     | .10 | 4.91  |       |
| Lloyd              | do.            |              |    |   |   |   |      |     |     |      |      |      |      |      |     |    |     | .12  | 1.25 | 1.45 |     |    |     |     | .10 |      | .16  |      |     |     |     | 6.57  |       |
| Lock Haven         | do.            |              |    |   |   |   | .48  | .73 |     | 1    | 00   | 1.26 |      |      |     |    |     | T    | 1.29 | .98  | .21 |    |     |     | .02 |      | .13  |      | .06 | .18 |     | 4.57  |       |
| Lykens             | Susquehanna    |              |    |   |   |   | T    |     |     | .30  | 1.42 |      |      |      |     |    |     | T    | .09  | .18  |     |    |     |     |     | .13  |      | .06  | .18 |     |     | 2.83  |       |
| Mauch Chunk        | Lehigh         |              |    |   |   |   | .33  |     |     | .49  | 1.51 |      |      |      |     |    |     | .09  | .18  |      |     |    |     |     | .08 |      | .15  |      |     |     |     | 4.57  |       |
| Mifflintown        | Juniata        |              |    |   |   |   | .15  |     |     | .38  | 1.76 |      |      |      |     |    |     | .29  | 1.00 | .79  |     |    |     |     | .02 |      | .08  |      |     |     |     |       |       |
| Montrose           | N. Br. Susq.   |              |    |   |   |   | .15  | .05 |     | .22  | 1.60 |      |      |      |     |    |     | 1.00 | .75  | .38  |     |    |     | .03 |     |      | .80  | .32  |     |     |     | 5.30  |       |
| Morris Run         | N. Br. Susq.   |              |    |   |   |   | .36  | .17 |     | .40  | 1.51 |      |      |      |     |    | .18 | .18  | .90  |      |     |    |     |     | .42 |      | .78  | .18  |     |     |     | 5.08  |       |
| Mount Pocono       | Upper Del.     |              |    |   |   |   | .39  |     |     | .32  | 3.80 |      |      |      |     |    |     | .06  | .20  |      |     |    |     | .03 |     |      | .10  | .19  |     |     |     | 5.19  |       |
| Muncy Valley       | W. Br. Susq.   |              |    |   |   |   | .24  | .29 |     | .06  | .73  |      |      |      |     |    |     | T    | .51  | 1.05 | .30 |    |     |     | .02 | .15  | T    | .01  | .02 |     |     | 3.88  |       |
| Narberth           | Lower Del.     |              |    |   |   |   | T    | .13 | T   | .46  | 1.20 |      | .05  | T    | T   |    |     | \$   | \$   |      |     |    |     |     |     |      |      | \$   | \$  |     |     | 5.07  |       |
| Neshaminy          | Lower Del.     |              |    |   |   |   | T    | T   |     | .24  | 1.58 | .28  |      | 1.10 | .05 |    |     | \$   | .37  | .46  |     |    |     |     |     | .05  |      | .75  |     |     | .19 | 5.07  |       |
| New Park           | Lower Susq.    |              | </ |   |   |   |      |     |     |      |      |      |      |      |     |    |     |      |      |      |     |    |     |     |     |      |      |      |     |     |     |       |       |



## Daily Precipitation for June, 1930—Continued from page 28

| Stations           | Drainage Basin    | Day of month |   |   |   |   |      |     |     |      |      |      |     |    |    |    |      |      |      |     |     |     |     |     |      |      |      |     |     |     |     |      | Total |
|--------------------|-------------------|--------------|---|---|---|---|------|-----|-----|------|------|------|-----|----|----|----|------|------|------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|------|-------|
|                    |                   | 1            | 2 | 3 | 4 | 5 | 6    | 7   | 8   | 9    | 10   | 11   | 12  | 13 | 14 | 15 | 16   | 17   | 18   | 19  | 20  | 21  | 22  | 23  | 24   | 25   | 26   | 27  | 28  | 29  | 30  | 31   |       |
| Ohio Drainage.     |                   |              |   |   |   |   |      |     |     |      |      |      |     |    |    |    |      |      |      |     |     |     |     |     |      |      |      |     |     |     |     |      |       |
| Beaver Dam\|\|\| | Ohio.....         |              |   |   |   |   | .02  | .81 |     |      | .52  | 1.32 |     |    |    |    |      | .55  | .01  | .27 |     |     | .15 |     | .05  | .32  |      | .01 |     |     |     |      | 4.04  |
| Beaver Falls\|\|\| | Beaver.....       |              |   |   |   |   | .03  | .34 |     |      | .48  | 1.35 |     |    |    |    |      | .34  |      | .25 |     |     | .07 |     | T.   | .17  |      | .08 | T.  |     |     |      | 3.11  |
| Bradford.....      | Allegheny.....    |              |   |   |   |   | .64  |     |     | .02  | 1.24 | .04  |     |    |    |    |      | .52  | .12  | .50 | .02 |     |     |     | .03  |      | .62  | .14 |     |     | .08 |      | 3.97  |
| Brookville.....    | do.....           |              |   |   |   |   | .48  |     | .25 | .32  |      |      |     |    |    |    | 1.20 | .10  | .21  |     |     |     |     |     | .11  |      | .29  | T.  |     |     | .35 |      | 3.31  |
| Butler.....        | Ohio.....         |              |   |   |   |   | .46  |     |     |      | 2.55 |      |     |    |    |    |      | .77  | .26  |     |     |     |     |     | .62  |      | .12  |     |     | .20 |     | 4.93 |       |
| Chambersville..... | Allegheny.....    |              |   |   |   |   | .20  |     |     |      | 1.65 |      |     |    |    |    |      | .03  | .92  | .03 |     | .05 |     |     | .58  | .02  | .50  | .06 |     |     |     | 4.04 |       |
| Claysville.....    | Ohio.....         |              |   |   |   |   | .16  | .02 |     |      | 1.95 |      |     |    |    |    |      | .04  | .37  | .50 | .12 |     |     |     | 1.54 | .02  |      | .18 |     |     |     | 4.90 |       |
| Cloeff.....        | Allegheny.....    |              |   |   |   |   | .66  |     |     |      | .20  | .56  |     |    |    |    |      | .12  | .86  |     |     |     |     |     | .30  |      | .15  | .06 |     |     |     | 2.91 |       |
| Clymer II.....     | Conemaugh.....    |              |   |   |   |   | .08  | .33 |     |      | .03  | 1.62 | .10 |    |    |    | T.   | 2.48 | .05  |     |     |     |     | .12 |      | .50  |      |     |     | .02 |     | 5.33 |       |
| Confluence\|\|\| | Youghiogheny..... |              |   |   |   |   |      | .20 |     |      | .18  | 1.10 | .80 |    |    |    |      | 1.44 | .12  |     |     |     | .12 |     | .05  | 1.05 |      | .25 | .08 |     |     | 5.39 |       |
| Coraopolis\|\|\| | Ohio.....         |              |   |   |   |   |      |     |     |      |      |      |     |    |    |    |      |      |      |     |     |     |     |     |      |      |      |     |     |     |     |      |       |
| Corry.....         | Allegheny.....    |              |   |   |   |   | .27  | .39 |     |      | .97  |      |     |    |    |    |      | .41  |      | .40 | .32 |     |     |     | .16  |      | .24  |     |     |     | .35 |      | 3.51  |
| Coudersport.....   | Allegheny.....    |              |   |   |   |   | .16  |     | .06 | .41  | .90  |      |     |    |    |    |      | .70  | .41  | .03 |     |     |     | .28 |      |      | .75  | .06 |     |     | .57 |      | 4.33  |
| Derry.....         | Conemaugh.....    |              |   |   |   |   | .26  | .02 | .06 | .03  | 3.75 |      |     |    |    |    |      | 1.87 |      |     |     |     | .07 |     | .16  |      |      | .31 |     |     |     |      | 6.53  |
| Donora\|\|\| | Monongahela.....  |              |   |   |   |   | .05  | .38 |     |      | T.   | 1.83 | .60 |    |    |    |      | T.   | .77  | T.  |     |     |     | .13 |      | .10  | 1.10 |     | .09 |     |     | 5.05 |       |
| Ebensburg.....     | Conemaugh.....    |              |   |   |   |   | .70  |     |     |      | 1.36 | .07  |     |    |    |    |      | .02  | 1.25 |     |     |     |     |     | .13  |      | .03  |     | .17 |     |     | 3.78 |       |
| Elk Lick.....      | Youghiogheny..... |              |   |   |   |   | .10  | .10 | .14 |      | .10  | 2.45 |     |    |    |    |      |      | .60  |     |     |     | .45 |     | .18  |      | .10  | .08 |     |     |     | 4.30 |       |
| Falls Creek.....   | Allegheny.....    |              |   |   |   |   | .40  |     |     |      | .69  |      |     |    |    |    |      | .84  | .12  |     |     |     |     |     | .18  |      | .26  | .07 |     |     |     | 2.56 |       |
| Franklin\|\|\| | Allegheny.....    |              |   |   |   |   |      | .52 |     |      | .40  | 1.24 |     |    |    |    |      |      | .27  | .04 |     |     |     | .25 |      | .13  |      | .34 | .05 |     |     | 3.24 |       |
| Freeport\|\|\| | do.....           |              |   |   |   |   | .04  | .49 |     |      | .85  | 2.00 |     |    |    |    |      |      | .75  | .02 | .05 |     |     | .15 |      | .02  | .40  |     | .12 | T.  |     | 4.89 |       |
| Greensburg.....    | Monongahela.....  |              |   |   |   |   |      | .72 |     | T.   | 1.15 | .80  |     |    |    |    |      | 1.03 |      |     |     |     |     | .05 |      | 1.37 |      | .21 | T.  |     |     | 5.33 |       |
| Greensburg.....    | Youghiogheny..... |              |   |   |   |   | T.   | .33 |     |      | .06  | 2.10 | .03 |    |    |    |      | T.   | .90  |     | T.  |     | .12 |     |      | .43  | .01  | .03 | .04 | T.  |     | 4.05 |       |
| Greenville.....    | Beaver.....       |              |   |   |   |   | .07  |     |     |      | 1.18 | .05  |     |    |    |    |      | .52  | T.   | .47 | .03 | .06 |     |     | .06  |      | .30  | .11 |     |     | .22 | 3.07 |       |
| Grove City.....    | do.....           |              |   |   |   |   | .18  |     |     |      | 2.24 | .04  |     |    |    |    |      | .50  | .06  | T.  | .07 |     |     | .05 |      | .06  | .15  | .16 |     |     | T.  | 3.51 |       |
| Herr's Isl. Dam\|\|\| | Ohio.....         |              |   |   |   |   | .14  | .06 |     | T.   | .81  | 1.08 |     |    |    |    |      | .48  | .01  | .69 |     |     | .05 |     | .45  | .07  |      | .09 | .02 |     |     | 3.95 |       |
| Ingram.....        | do.....           |              |   |   |   |   | .27  | T.  |     |      | 2.00 |      |     |    |    |    |      | .20  | .30  | .25 | .01 |     |     | .10 |      | .39  | .01  | .11 | .01 | T.  |     | 3.65 |       |
| Irwin.....         | Youghiogheny..... |              |   |   |   |   | .17  | .18 |     | T.   | 1.40 |      |     |    |    |    |      | .34  | .87  |     |     |     |     |     |      | .42  | T.   | .24 | .01 | T.  |     | 3.63 |       |
| Johnstown.....     | Conemaugh.....    |              |   |   |   |   | T.   | .27 |     |      | .05  | 1.38 |     |    |    |    |      |      | 1.85 | .13 |     |     |     |     | .18  |      | .30  |     |     |     |     | 4.17 |       |
| Kregar\|\|\| | Youghiogheny..... |              |   |   |   |   | .36  |     | .11 | 2.40 | 1.24 |      |     |    |    |    | .02  | 1.31 | .03  | T.  |     | .03 |     |     | 1.01 | .02  | T.   | .09 |     |     | .14 | 6.76 |       |
| Lock No. 4\|\|\| | Monongahela.....  |              |   |   |   |   | .09  | .22 |     |      | 1.05 | 1.57 |     |    |    |    |      | .55  | .22  |     |     |     | .14 |     | .01  | 1.20 |      | .15 | .04 |     |     | 5.24 |       |
| Lycippus.....      | Conemaugh.....    |              |   |   |   |   | .16  |     | .09 |      | 3.05 |      |     |    |    |    |      | 2.00 |      |     |     | .05 |     |     | .42  |      | T.   |     |     |     |     | 5.77 |       |
| Meadville.....     | Allegheny.....    |              |   |   |   |   | .16  | T.  |     |      | 1.24 | .35  |     |    |    |    |      | .44  | .12  | .19 | .22 |     |     |     | .26  |      | .23  | .26 |     |     | .48 | 3.95 |       |
| Mount Lebanon..... | Ohio.....         |              |   |   |   |   | .12  |     |     |      | 2.18 |      |     |    |    |    |      |      | .46  |     | .17 | .22 |     |     | .69  | .03  | .03  |     |     |     |     | 3.90 |       |
| New Castle\|\|\| | Beaver.....       |              |   |   |   |   |      | .14 |     |      | .84  | 1.24 |     |    |    |    |      | .01  | .53  | .10 | .03 |     |     |     | .06  | .09  |      | .14 | .10 |     |     | 3.28 |       |
| Newell.....        | Monongahela.....  |              |   |   |   |   | .10  |     |     |      | 2.24 |      |     |    |    |    |      | 1.00 |      |     |     |     |     |     | .85  |      |      |     |     | .10 |     | 4.29 |       |
| Parkers Landing\|\|\| | Allegheny.....    |              |   |   |   |   | T.   | .07 |     |      | .28  | 1.26 |     |    |    |    |      | .30  | T.   | .07 |     |     |     |     | .08  | .02  |      | T.  |     |     |     | 2.03 |       |
| Pennline\|\|\|† | Beaver.....       |              |   |   |   |   | .53  | T.  | .02 |      | .32  | .90  |     |    |    |    |      | .84  | .32  | .15 | .54 | T.  |     | .07 |      | .24  |      | .51 | .02 |     |     | 4.46 |       |
| Pittsburgh***      | Ohio.....         |              |   |   |   |   | .14  |     | T.  |      | 1.89 |      |     |    |    |    |      | .27  | .14  | .60 | T.  |     | .01 |     |      | .28  | T.   | .08 | T.  |     | T.  | 3.41 |       |
| Ridgway.....       | Allegheny.....    |              |   |   |   |   | .17  | .16 |     |      | .03  | .31  | .17 |    |    |    |      | 1.11 | .61  | .05 | T.  |     |     |     | .56  | .13  |      | .60 | .02 |     |     | 3.75 |       |
| Saltsburg\|\|\| | Conemaugh.....    |              |   |   |   |   | T.   | .30 |     |      | 1.43 | 1.65 |     |    |    |    |      |      | .45  | .02 |     |     | .12 |     | .08  | .06  |      | .13 | .01 |     |     | 4.25 |       |
| Sharon\|\|\| | Beaver.....       |              |   |   |   |   | .12  | .06 |     |      | .85  | 1.12 |     |    |    |    |      | .03  | .15  | .02 | .12 |     |     |     | .03  |      |      | .35 |     |     |     | 2.85 |       |
| Somerset.....      | Youghiogheny..... |              |   |   |   |   | .06  | .04 | T.  |      | .12  | 2.80 | T.  |    |    |    |      | 1.60 | .18  |     |     | .02 |     |     | .27  | .06  | .12  | .11 | T.  |     |     | 5.38 |       |
| Springdale\|\|\| | Allegheny.....    |              |   |   |   |   | .22  | .04 |     |      | .93  | 1.28 |     |    |    |    |      |      | .45  | .05 | .12 |     |     | .19 |      | .19  | .12  |     | .25 | .01 |     | 3.85 |       |
| Uniontown.....     | Monongahela.....  |              |   |   |   |   | .33  | .25 | T.  |      | .02  | 1.76 |     |    |    |    |      | T.   | 1.17 |     |     |     | .18 | .02 |      | 2.32 | .02  | .18 | .02 |     |     | 6.27 |       |
| Unity Reservoir†   | Youghiogheny..... |              |   |   |   |   | .22  |     |     |      | 2.55 |      |     |    |    |    |      |      | .98  |     |     |     | .15 |     | .42  | T.   | T.   | T.  |     |     |     | 4.32 |       |
| Vandergrift\|\|\| | Conemaugh.....    |              |   |   |   |   | .16  |     |     |      | .01  | 2.68 |     |    |    |    |      | .20  | .67  | .03 |     | .80 |     |     | .36  |      | .65  | .02 |     |     | .05 | 5.63 |       |
| Warren.....        | Allegheny.....    |              |   |   |   |   | .66  |     |     |      | .55  |      |     |    |    |    |      | .05  | .05  | .76 |     |     |     |     | .53  |      | .53  |     |     |     | .30 | 3.43 |       |
| Westford\|\|\| | Beaver.....       |              |   |   |   |   |      |     |     |      |      |      |     |    |    |    |      |      |      |     |     |     |     |     |      |      |      |     |     |     |     |      |       |
| West Newton\|\|\| | Youghiogheny..... |              |   |   |   |   | .10  | .32 |     | T.   | 1.14 | .91  |     |    |    |    |      | .68  | .13  |     |     |     |     |     | .24  | .46  |      | .08 | .02 |     |     | 4.08 |       |
| Zelienople.....    | Ohio.....         |              |   |   |   |   | 1.45 | .38 |     |      | .61  | T.   |     |    |    |    |      | .94  |      |     |     |     | .31 |     |      | T.   |      |     |     |     |     | 3.69 |       |
| Lake Drainage.     |                   |              |   |   |   |   |      |     |     |      |      |      |     |    |    |    |      |      |      |     |     |     |     |     |      |      |      |     |     |     |     |      |       |
| Erie***            | Lake Erie.....    |              |   |   |   |   | .40  | .05 |     |      | 1.66 | T.   |     |    |    |    |      | T.   | 1.64 | T.  | .24 | T.  |     |     |      | .30  |      | .29 | T.  |     |     | T.   | 4.58  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah. † Mdt. to mdt.



Daily Temperatures for June, 1930

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24   | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean              |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|------|-------------------|------|
| Allentown.....    | Maximum | 78 | 84 | 90 | 92 | 92 | 86 | 77 | 75 | 70 | 74 | 78 | 78 | 80 | 82 | 85 | 87 | 82 | 85 | 83 | 82 | 84 | 84 | 87   | 84 | 88 | 98 | 78 | 77 | 83 | 90   | 82.9              |      |
|                   | Minimum | 42 | 49 | 53 | 57 | 60 | 64 | 66 | 56 | 51 | 61 | 61 | 54 | 59 | 57 | 63 | 64 | 68 | 66 | 61 | 61 | 62 | 63 | 61   | 62 | 67 | 60 | 66 | 66 | 54 | 58   | 59.1              |      |
| Altoona.....      | Maximum | 77 | 85 | 90 | 91 | 93 | 78 | 73 | 73 | 67 | 60 | 72 | 76 | 79 | 82 | 89 | 82 | 77 | 81 | 76 | 80 | 84 | 83 | 88   | 90 | 86 | 87 | 74 | 76 | 83 | 93   | 80.8              |      |
|                   | Minimum | 43 | 46 | 50 | 54 | 58 | 64 | 55 | 47 | 51 | 54 | 44 | 50 | 56 | 59 | 56 | 57 | 62 | 63 | 53 | 58 | 54 | 53 | 52   | 62 | 67 | 60 | 58 | 49 | 45 | 58   | 54.6              |      |
| Beaver Dam.....   | Maximum | 78 | 84 | 88 | 89 | 89 | 87 | 73 | 68 | 72 | 71 | 76 | 82 | 85 | 86 | 87 | 85 | 75 | 75 | 77 | 82 | 81 | 81 | 86   | 86 | 87 | 81 | 81 | 77 | 88 | 90   | 81.6              |      |
|                   | Minimum | 35 | 44 | 48 | 52 | 54 | 64 | 57 | 42 | 47 | 52 | 48 | 53 | 54 | 58 | 60 | 64 | 60 | 59 | 54 | 55 | 57 | 57 | 51   | 65 | 66 | 66 | 62 | 58 | 49 | 60   | 55.1              |      |
| Bellefonte.....   | Maximum | 77 | 84 | 88 | 90 | 90 | 78 | 70 | 72 | 65 | 69 | 73 | 77 | 79 | 82 | 86 | 85 | 75 | 80 | 75 | 79 | 79 | 83 | 88   | 87 | 86 | 86 | 73 | 76 | 81 | 87   | 80.0              |      |
|                   | Minimum | 33 | 41 | 44 | 46 | 50 | 60 | 51 | 47 | 52 | 50 | 45 | 50 | 64 | 62 | 57 | 61 | 64 | 60 | 52 | 59 | 53 | 53 | 49   | 61 | 62 | 58 | 56 | 50 | 45 | 58   | 53.1              |      |
| Brookville.....   | Maximum | 77 | 84 | 87 | 89 | 89 | 72 | 68 | 70 | 60 | 77 | 80 | 84 | 88 | 88 | 92 | 88 | 78 | 78 | 69 | 73 | 78 | 81 | 81   | 86 | 87 | 86 | 85 | 72 | 73 | 91   | 79.8 <sup>b</sup> |      |
|                   | Minimum | 28 | 36 | 39 | 44 | 46 | 58 | 43 | 38 | 48 | 45 | 46 | 48 | 45 | 48 | 52 | 53 | 54 | 59 | 54 | 49 | 44 | 45 | 42   | 60 | 58 | 54 | 51 | 42 | 38 | 38   | 47.2 <sup>b</sup> |      |
| Butler.....       | Maximum | 70 | 88 | 89 | 90 | 91 | 80 | 68 | 74 | 72 | 69 | 82 | 85 | 88 | 88 | 92 | 88 | 78 | 78 | 60 | 51 | 56 | 52 | 60   | 45 | 47 | 67 | 61 | 60 | 50 | 42   | 60                | 52.1 |
|                   | Minimum | 40 | 45 | 43 | 49 | 49 | 63 | 56 | 41 | 49 | 52 | 45 | 49 | 49 | 52 | 58 | 58 | 59 | 56 | 51 | 56 | 52 | 60 | 45   | 47 | 67 | 61 | 60 | 50 | 42 | 60   | 52.1              |      |
| Carlisle.....     | Maximum | 83 | 92 | 96 | 99 | 98 | 95 | 83 | 80 | 76 | 72 | 83 | 85 | 86 | 88 | 90 | 91 | 88 | 88 | 86 | 84 | 86 | 89 | 94   | 93 | 93 | 94 | 86 | 84 | 90 | 95   | 88.2              |      |
|                   | Minimum | 38 | 46 | 45 | 48 | 51 | 61 | 60 | 55 | 62 | 58 | 49 | 50 | 63 | 60 | 66 | 61 | 68 | 68 | 58 | 68 | 57 | 60 | 57   | 62 | 69 | 61 | 62 | 53 | 49 | 65   | 57.7              |      |
| Catawissa.....    | Maximum | 83 | 90 | 93 | 96 | 97 | 86 | 81 | 76 | 80 | 80 | 85 | 83 | 87 | 90 | 93 | 92 | 82 | 84 | 83 | 80 | 86 | 87 | 89   | 91 | 92 | 92 | 76 | 80 | 89 | 94   | 86.6              |      |
|                   | Minimum | 35 | 43 | 46 | 50 | 54 | 61 | 59 | 52 | 53 | 68 | 58 | 54 | 68 | 70 | 68 | 70 | 66 | 64 | 56 | 53 | 67 | 58 | 59   | 76 | 75 | 63 | 50 | 45 | 58 | 59   | 58.3              |      |
| Chambersburg..... | Maximum | 80 | 87 | 92 | 94 | 94 | 89 | 78 | 76 | 70 | 66 | 76 | 80 | 81 | 83 | 88 | 89 | 83 | 83 | 82 | 83 | 84 | 85 | 87   | 88 | 88 | 91 | 77 | 82 | 85 | 92   | 83.8              |      |
|                   | Minimum | 32 | 44 | 46 | 49 | 52 | 61 | 61 | 57 | 56 | 59 | 45 | 51 | 53 | 60 | 58 | 60 | 66 | 66 | 56 | 57 | 54 | 56 | 51   | 61 | 67 | 62 | 63 | 53 | 53 | 62   | 55.7              |      |
| Claysville.....   | Maximum | 82 | 88 | 92 | 96 | 92 | 86 | 75 | 72 | 75 | 71 | 81 | 83 | 88 | 90 | 91 | 87 | 84 | 81 | 78 | 82 | 86 | 85 | 91   | 92 | 87 | 85 | 81 | 79 | 91 | 93   | 84.5              |      |
|                   | Minimum | 33 | 43 | 48 | 53 | 55 | 66 | 55 | 39 | 45 | 51 | 46 | 58 | 57 | 58 | 65 | 65 | 59 | 57 | 51 | 54 | 54 | 53 | 47   | 67 | 66 | 66 | 60 | 52 | 48 | 66   | 54.6              |      |
| Clearfield.....   | Maximum | 82 | 89 | 92 | 93 | 93 | 83 | 81 | 76 | 70 | 62 | 76 | 81 | 87 | 88 | 92 | 88 | 76 | 84 | 81 | 79 | 84 | 86 | 85   | 92 | 93 | 90 | 83 | 81 | 89 | 95   | 84.4              |      |
|                   | Minimum | 31 | 38 | 41 | 46 | 50 | 46 | 55 | 39 | 48 | 45 | 44 | 46 | 51 | 53 | 56 | 55 | 54 | 62 | 66 | 51 | 48 | 50 | 50   | 46 | 61 | 56 | 59 | 48 | 42 | 53   | 49.3              |      |
| Coatesville.....  | Maximum | 78 | 85 | 90 | 92 | 91 | 88 | 78 | 75 | 71 | 76 | 79 | 82 | 82 | 84 | 86 | 86 | 81 | 86 | 84 | 81 | 86 | 84 | 85   | 84 | 86 | 88 | 90 | 94 | 78 | 81   | 87                | 80.0 |
|                   | Minimum | 34 | 52 | 51 | 55 | 58 | 67 | 67 | 61 | 62 | 63 | 49 | 52 | 65 | 65 | 66 | 67 | 68 | 61 | 58 | 61 | 58 | 59 | 61   | 55 | 63 | 71 | 68 | 68 | 56 | 55   | 65                | 60.2 |
| Corry.....        | Maximum | 75 | 85 | 98 | 90 | 90 | 83 | 70 | 69 | 68 | 61 | 77 | 83 | 86 | 84 | 87 | 83 | 77 | 77 | 69 | 76 | 80 | 79 | 84   | 87 | 83 | 85 | 70 | 50 | 41 | 64   | 52.5              |      |
|                   | Minimum | 35 | 41 | 45 | 50 | 53 | 61 | 48 | 42 | 44 | 51 | 49 | 53 | 57 | 63 | 64 | 64 | 61 | 55 | 55 | 56 | 47 | 47 | 48   | 65 | 52 | 57 | 57 | 50 | 41 | 64   | 52.5              |      |
| Emporium.....     | Maximum | 76 | 83 | 85 | 87 | 88 | 77 | 69 | 68 | 65 | 68 | 75 | 78 | 81 | 84 | 85 | 83 | 69 | 77 | 73 | 76 | 80 | 79 | 84   | 87 | 83 | 85 | 70 | 50 | 42 | 55   | 51.6              |      |
|                   | Minimum | 32 | 38 | 45 | 48 | 50 | 56 | 55 | 43 | 49 | 54 | 48 | 48 | 50 | 55 | 55 | 56 | 56 | 66 | 55 | 56 | 48 | 50 | 49   | 60 | 60 | 56 | 59 | 52 | 42 | 55   | 77.0              |      |
| Erie.....         | Maximum | 73 | 79 | 84 | 84 | 87 | 77 | 61 | 64 | 65 | 58 | 77 | 83 | 86 | 87 | 89 | 75 | 74 | 73 | 70 | 72 | 75 | 76 | 86   | 79 | 82 | 79 | 70 | 69 | 85 | 92   | 61.0              |      |
|                   | Minimum | 50 | 60 | 64 | 69 | 71 | 61 | 50 | 49 | 52 | 53 | 54 | 61 | 64 | 69 | 71 | 64 | 62 | 60 | 59 | 61 | 58 | 63 | 67   | 62 | 67 | 62 | 56 | 54 | 72 | 91   | 80.6              |      |
| Franklin.....     | Maximum | 79 | 85 | 88 | 90 | 89 | 80 | 62 | 73 | 72 | 60 | 77 | 80 | 84 | 85 | 86 | 78 | 80 | 79 | 75 | 80 | 82 | 80 | 87   | 90 | 89 | 82 | 78 | 75 | 88 | 91   | 52.5              |      |
|                   | Minimum | 32 | 39 | 45 | 50 | 52 | 61 | 56 | 42 | 44 | 52 | 50 | 49 | 51 | 59 | 58 | 64 | 61 | 57 | 54 | 58 | 49 | 52 | 49   | 56 | 60 | 61 | 59 | 52 | 43 | 59   | 52.5              |      |
| Freeland.....     | Maximum | 74 | 82 | 86 | 87 | 89 | 82 | 72 | 70 | 67 | 66 | 73 | 77 | 76 | 81 | 84 | 82 | 77 | 78 | 76 | 76 | 77 | 76 | 80   | 81 | 80 | 87 | 70 | 78 | 79 | 85   | 78.3              |      |
|                   | Minimum | 42 | 54 | 62 | 65 | 69 | 66 | 60 | 53 | 50 | 56 | 47 | 54 | 60 | 60 | 62 | 64 | 61 | 56 | 59 | 56 | 55 | 54 | 63   | 63 | 63 | 62 | 50 | 51 | 62 | 85   | 58.0              |      |
| Gettysburg.....   | Maximum | 82 | 88 | 93 | 95 | 95 | 90 | 78 | 76 | 71 | 69 | 78 | 81 | 82 | 85 | 89 | 89 | 84 | 83 | 83 | 84 | 85 | 87 | 88   | 85 | 89 | 93 | 75 | 82 | 86 | 93   | 84.6              |      |
|                   | Minimum | 39 | 51 | 52 | 56 | 60 | 69 | 64 | 60 | 58 | 60 | 47 | 54 | 65 | 63 | 61 | 65 | 67 | 65 | 59 | 61 | 59 | 61 | 58   | 66 | 68 | 65 | 65 | 57 | 56 | 66   | 59.9              |      |
| Greensburg.....   | Maximum | 78 | 84 | 89 | 90 | 90 | 83 | 69 | 69 | 66 | 79 | 81 | 84 | 86 | 89 | 82 | 77 | 80 | 77 | 81 | 81 | 82 | 87 | 88   | 86 | 86 | 77 | 75 | 87 | 91 | 81.9 |                   |      |
|                   | Minimum | 35 | 48 | 49 | 50 | 58 | 64 | 56 | 45 | 52 | 52 | 46 | 58 | 59 | 61 | 62 | 66 | 59 | 58 | 55 | 57 | 52 | 55 | 51   | 70 | 67 | 65 | 60 | 55 | 50 | 65   | 56.0              |      |
| Grove City.....   | Maximum | 74 | 81 | 85 | 87 | 87 | 83 | 75 | 63 | 69 | 64 | 74 | 78 | 81 | 83 | 84 | 82 | 73 | 76 | 72 | 78 | 80 | 77 | 84   | 87 | 83 | 82 | 74 | 70 | 84 | 89   | 78.6              |      |
|                   | Minimum | 34 | 43 | 47 | 52 | 55 | 64 | 52 | 39 | 46 | 50 | 49 | 56 | 57 | 62 | 63 | 64 | 59 | 58 | 60 | 55 | 52 | 51 | 49   | 69 | 62 | 65 | 58 | 53 | 46 | 66   | 54.5              |      |
| Hamburg.....      | Maximum | 76 | 86 | 84 | 92 | 91 | 89 | 83 | 81 | 71 | 74 | 76 | 80 | 83 | 85 | 87 | 87 | 84 | 83 | 84 | 81 | 82 | 84 | 85   | 88 | 86 | 90 | 81 | 84 | 87 | 91   | 83.8              |      |
|                   | Minimum | 35 | 42 | 47 | 51 | 53 | 57 | 58 | 56 | 66 | 62 | 46 | 48 | 49 | 50 | 54 | 58 | 60 | 65 | 58 | 52 | 53 | 55 | 47   | 64 | 62 | 55 | 50 | 46 | 53 | 55   | 53.5              |      |
| Harrisburg.....   | Maximum | 80 | 88 | 92 | 95 | 92 | 84 | 78 | 74 | 71 | 71 | 76 | 79 | 84 | 83 | 86 | 87 | 74 | 83 | 82 | 83 | 83 | 85 | 88   | 87 | 88 | 92 | 77 | 80 | 84 | 91   | 83.2              |      |
|                   | Minimum | 45 | 56 | 57 | 62 | 65 | 66 | 65 | 60 | 57 | 58 | 53 | 57 | 66 | 65 | 67 | 67 | 63 | 61 | 65 | 66 | 65 | 62 | 66   | 70 | 64 | 66 | 61 | 56 | 71 | 71   | 62.3              |      |
| Hawley.....       | Maximum | 76 | 86 | 90 | 91 | 92 | 90 | 75 | 73 | 68 | 65 | 69 | 82 | 79 | 85 | 89 | 87 | 82 | 84 | 85 | 83 | 80 | 81 | 84   | 86 | 85 | 90 | 82 | 74 | 84 | 90   | 82.6              |      |
|                   | Minimum | 33 | 43 | 45 | 48 | 52 | 55 | 59 | 47 | 55 | 59 | 46 | 48 | 60 | 58 | 55 | 58 | 61 | 64 | 53 | 56 | 55 | 49 | 44   | 53 | 62 | 51 | 55 | 48 | 39 | 56   | 52.2              |      |
| Huntingdon.....   | Maximum | 79 | 88 | 94 | 93 | 96 | 87 | 75 | 75 | 69 | 66 | 77 | 79 | 84 | 86 | 87 | 84 | 81 | 79 | 86 | 79 | 83 | 84 | 87   | 91 | 93 | 89 | 92 | 80 | 79 | 87   | 92                | 84.2 |
|                   | Minimum | 29 | 41 | 42 | 46 | 51 | 60 | 59 | 48 | 52 | 55 | 42 | 47 | 54 | 55 | 57 | 57 | 55 | 50 | 52 | 53 | 50 | 52 | 46   | 59 | 60 | 59 | 62 | 53 | 45 | 56   | 52.2              |      |
| Johnstown.....    | Maximum | 84 | 92 | 90 | 94 | 95 | 85 | 78 | 75 | 70 | 78 | 86 | 84 | 86 | 91 | 94 | 91 | 78 | 83 | 81 | 83 | 84 | 84 | 90   | 91 | 87 | 91 | 74 | 78 | 89 | 94   | 85.1              |      |
|                   | Minimum | 35 | 46 | 48 | 48 | 55 | 65 | 54 | 50 | 55 | 54 | 45 | 55 | 57 | 52 | 57 | 54 | 57 | 55 | 59 | 54 | 56 | 52 | 64   | 68 | 64 | 60 | 54 | 49 | 59 | 59   | 55.5              |      |
| Lancaster.....    | Maximum | 83 | 88 | 93 | 96 | 96 | 90 | 79 | 80 | 78 | 75 | 80 | 82 | 87 | 84 | 87 | 88 | 84 | 86 | 86 | 87 | 87 | 87 | 89</ |    |    |    |    |    |    |      |                   |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. JULY, 1930. No. 7

## GENERAL SUMMARY.

Temperatures during the fore part of the month were mostly below the normal, but the last ten days were intensely hot, and the month closed with a moderate temperature excess. Light frost occurred at some places on the 15th. A maximum temperature of 106 degrees at Phoenixville on the 21st was within one degree of the July record for the entire State. The rainfall was slightly more than one-half of the July normal, and a drought condition, that had been slowly accumulating in the greater portion of the State since the middle of May, was greatly intensified. At the close of the month the conditions were becoming alarming. The ponds and small streams were drying up, and the larger streams were very low. Many pastures had failed, and were beginning to turn brown. Corn was hit just as the ears were beginning to form, and in some sections it would make nothing more than fodder. Late potatoes were setting, and were seriously stunted. Truck crops were practically at a standstill. Orchard fruits were dropping from the trees. Apples promised little more than half, and peaches less than a third of a normal yield. Pears seemed to be least affected of all of the orchard fruits, and the outlook was for nearly a full crop. Hailstorms seemed to do more than the usual amount of damage, especially in the central and eastern counties, during the fore part of the month. Severe electrical storms occurred in various parts of the State from the 20th to the 24th. In several instances the winds were said to have been rotary in character. This was probably true of the storm that occurred in the vicinity of Allentown on the 22d. However, some of the storms that were reported as rotary were also said to have covered paths four to five miles in width, and it is questionable if a funnel cloud was present. Taken as a whole, July was an exceedingly unfavorable and disagreeable month.

## TEMPERATURE.

The mean temperature of the State as shown by reports from 89 stations, was 73.0°, which is 1.1° higher than the July normal. The highest monthly mean was 79.8° at Holtwood, and the lowest was 65.4° at Gouldsboro. The highest temperature recorded during the month was 106°, at Phoenixville on the 21st, while the lowest was 33° at Somerset on the 15th. The greatest daily range of temperature was 52° at Brookville on the 28th.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations taken at 134 well-distributed stations, was 2.23 inches, which is 2.12 inches less than the normal for the month. The greatest monthly amount was 6.46 inches at Bethlehem, and the least, 0.17 inch fell at Arendtsville. The greatest amount recorded in any 24 consecutive hours was 3.29 inches, at Bethlehem on the 9-10th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 361.0                   | 461.4                    | 78                     | 68               | 61       | 64      | 6,931                    | 9.3                         | 36        | sw.       |
| Harrisburg.....   | 377.4                   | 455.2                    | 83                     | 67               | 46       | 49      | 3,823                    | 5.1                         | 19        | w.        |
| Philadelphia..... | 282.0                   | 455.2                    | 62                     | 70               | 49       | 58      | 7,583                    | 10.2                        | 44        | nw.       |
| Pittsburgh.....   | 327.9                   | 458.3                    | 72                     | 70               | 44       | 48      | 5,806                    | 7.8                         | 29        | sw.       |
| Reading.....      | 290.5                   | 455.2                    | 64                     | 67               | 46       | 53      | 3,567                    | 4.8                         | 22        | sw.       |
| Scranton.....     | 356.4                   | 458.3                    | 78                     | 75               | 50       | 58      | 4,127                    | 5.5                         | 24        | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR JULY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888..... | 69.2        | 97      | 38     | 3.45          | 7.10     | 1.40  | .....       | .....         | .....  | .....                  |
| 1889..... | 71.6        | 96      | 39     | 6.80          | 15.02    | 1.04  | .....       | .....         | .....  | .....                  |
| 1890..... | 70.7        | 101     | 33     | 3.52          | 6.40     | 0.70  | 13          | 11            | 7      | 8                      |
| 1891..... | 67.8        | 97      | 34     | 6.32          | 11.61    | 2.63  | 11          | 10            | 10     | 13                     |
| 1892..... | 73.1        | 103     | 38     | 3.93          | 8.59     | 2.15  | 15          | 11            | 5      | 10                     |
| 1893..... | 72.1        | 102     | 36     | 3.15          | 6.27     | 1.58  | 15          | 12            | 4      | 10                     |
| 1894..... | 73.8        | 103     | 31     | 2.32          | 5.96     | 0.53  | 15          | 11            | 5      | 7                      |
| 1895..... | 69.1        | 102     | 34     | 3.24          | 6.18     | 1.16  | 12          | 12            | 7      | 9                      |
| 1896..... | 72.8        | 98      | 40     | 6.89          | 15.59    | 3.04  | 10          | 11            | 10     | 14                     |
| 1897..... | 73.4        | 103     | 41     | 6.26          | 14.51    | 2.10  | 10          | 11            | 10     | 14                     |
| 1898..... | 74.8        | 107     | 33     | 3.36          | 6.29     | 1.15  | 12          | 12            | 7      | 9                      |
| 1899..... | 72.3        | 101     | 35     | 3.91          | 8.24     | 1.53  | 12          | 11            | 8      | 10                     |
| 1900..... | 74.0        | 104     | 35     | 4.86          | 8.26     | 1.81  | 14          | 12            | 5      | 11                     |
| 1901..... | 76.4        | 107     | 45     | 3.88          | 7.34     | 1.52  | 10          | 13            | 8      | 11                     |
| 1902..... | 71.8        | 99      | 41     | 6.04          | 12.35    | 2.11  | 10          | 12            | 9      | 15                     |
| 1903..... | 71.2        | 98      | 35     | 5.36          | 8.81     | 1.76  | 13          | 12            | 6      | 12                     |
| 1904..... | 70.6        | 99      | 34     | 4.68          | 9.19     | 1.92  | 12          | 11            | 8      | 13                     |
| 1905..... | 72.6        | 99      | 39     | 4.87          | 9.78     | 2.49  | 10          | 12            | 9      | 15                     |
| 1906..... | 71.3        | 95      | 38     | 4.31          | 8.98     | 1.41  | 12          | 13            | 6      | 10                     |
| 1907..... | 71.5        | 96      | 34     | 3.84          | 9.46     | 1.01  | 15          | 12            | 4      | 10                     |
| 1908..... | 73.9        | 104     | 39     | 4.81          | 9.57     | 2.15  | 14          | 12            | 5      | 11                     |
| 1909..... | 69.7        | 98      | 34     | 2.14          | 4.50     | 0.75  | 16          | 11            | 4      | 7                      |
| 1910..... | 72.8        | 99      | 41     | 2.42          | 5.15     | 0.45  | 16          | 11            | 4      | 7                      |
| 1911..... | 73.7        | 105     | 36     | 2.81          | 7.41     | 0.90  | 16          | 11            | 4      | 8                      |
| 1912..... | 71.3        | 100     | 36     | 5.29          | 12.65    | 1.04  | 12          | 11            | 8      | 11                     |
| 1913..... | 71.8        | 101     | 40     | 4.16          | 8.00     | 0.82  | 15          | 10            | 6      | 11                     |
| 1914..... | 71.3        | 101     | 38     | 4.19          | 10.29    | 1.10  | 12          | 11            | 8      | 12                     |
| 1915..... | 70.7        | 98      | 40     | 5.28          | 12.30    | 1.82  | 10          | 13            | 5      | 15                     |
| 1916..... | 74.3        | 98      | 41     | 4.45          | 12.41    | 0.39  | 14          | 10            | 7      | 10                     |
| 1917..... | 72.1        | 105     | 40     | 4.33          | 9.76     | 1.90  | 12          | 12            | 7      | 13                     |
| 1918..... | 70.1        | 99      | 35     | 3.05          | 9.96     | 0.77  | 16          | 10            | 5      | 9                      |
| 1919..... | 72.6        | 104     | 34     | 5.90          | 14.58    | 1.70  | 16          | 8             | 7      | 11                     |
| 1920..... | 69.5        | 96      | 33     | 4.37          | 10.70    | 1.27  | 15          | 10            | 6      | 11                     |
| 1921..... | 75.9        | 104     | 45     | 4.13          | 9.19     | 1.23  | 19          | 9             | 3      | 10                     |
| 1922..... | 71.9        | 98      | 38     | 3.68          | 7.58     | 1.45  | 14          | 10            | 7      | 9                      |
| 1923..... | 71.0        | 100     | 32     | 4.24          | 9.86     | 0.92  | 15          | 9             | 7      | 11                     |
| 1924..... | 69.7        | 97      | 34     | 3.42          | 7.12     | 0.71  | 17          | 10            | 4      | 9                      |
| 1925..... | 70.5        | 101     | 32     | 5.57          | 14.95    | 1.54  | 13          | 11            | 7      | 12                     |
| 1926..... | 71.8        | 105     | 35     | 3.82          | 10.63    | 1.14  | 15          | 9             | 7      | 10                     |
| 1927..... | 71.7        | 100     | 25     | 4.97          | 11.82    | 1.81  | 14          | 11            | 6      | 12                     |
| 1928..... | 72.8        | 96      | 40     | 5.44          | 11.81    | 2.37  | 16          | 9             | 6      | 13                     |
| 1929..... | 71.8        | 99      | 33     | 2.81          | 6.97     | 0.19  | 18          | 9             | 4      | 8                      |
| 1930..... | 73.0        | 106     | 33     | 2.23          | 6.46     | 0.17  | 19          | 8             | 4      | 7                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 2.1        | 2.5           | 2    | 1.5          | 28   | 18          |
| Phillipsburg..... | Delaware.....     | 1.3        | 1.5           | 1    | 0.7          | 31   | 22          |
| Mauch Chunk.....  | Lehigh.....       | -3.6       | -2.3          | 10   | -4.3         | 31   | 12          |
| Wilkes-Barre..... | Susquehanna.....  | 2.8        | 4.0           | 3    | 1.7          | 30   | 20          |
| Williamsport..... | Susquehanna.....  | 1.0        | 2.2           | 4    | 0.1          | 31   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.6        | 4.2           | 1    | 3.2          | 29   | 17          |
| Greensboro.....   | Monongahela.....  | 10.0       | 10.6          | 2    | 9.1          | 28   | 30          |
| West Newton.....  | Youghiogheny..... | 0.1        | 0.6           | 1    | -0.1         | 31   | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.6       | 13.1          | 2    | 12.4         | 14   | 31          |
| Pittsburgh.....   | Ohio.....         | 9.8        | 10.4          | 9    | 9.5          | 28   | 25          |
| Beaver Dam.....   | Ohio.....         | 7.5        | 7.7           | 3    | 7.0          | 10   | 30          |



## Climatological Data for July, 1930

| Stations                | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                              |
|-------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|------------------------------|
|                         |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                       |
| Atlantic Drainage.      |                   |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                              |
| Allentown.....          | Lehigh.....       | 254             | 19                      | 74.0                         | .....                     | 101     | 21    | 51     | 15†   | 34                       | 4.74  | -0.31                     | 2.37                 | 0                         | 10                           | 19    | 6          | 6                            | sw        | John A. Frick.               |
| Altoona.....            | Blair.....        | 1,615           | 43                      | 72.2                         | +1.1                      | 99      | 26    | 41     | 15    | 41                       | 1.48  | -1.79                     | 0.45                 | 0                         | 6                            | 23    | 7          | 1                            | w.        | F. E. Rooney.                |
| Arendtsville.....       | Adams.....        | 700             | 6                       | 73.2                         | .....                     | 102     | 26    | 47     | 15    | 36                       | 0.17  | .....                     | 0.15                 | 0                         | 2                            | 19    | 11         | 1                            | n.        | Dr. S. W. Frost.             |
| Bellefonte.....         | Center.....       | 1,050           | 25                      | 70.0                         | .....                     | 97      | 26    | 40     | 15    | 41                       | 1.41  | -2.67                     | 0.49                 | 0                         | 8                            | 9     | 18         | 4                            | sw.       | U. S. Weather Bureau.        |
| Bethlehem.....          | Northampton.....  | 364             | 44                      | 76.2                         | +1.5                      | 100     | 21†   | 54     | 16    | 32                       | 6.46  | +1.90                     | 3.29                 | 0                         | 13                           | 19    | 6          | 6                            | sw.       | Lehigh University.           |
| Carlisle.....           | Cumberland.....   | 467             | 64                      | 77.2                         | +2.4                      | 105     | 21†   | 45     | 16    | 46                       | 1.01  | -2.85                     | 0.82                 | 0                         | 5                            | 27    | 3          | 1                            | nw.       | Prof. C. E. Miller.          |
| Catawissa.....          | Columbia.....     | 520             | 34                      | 73.4                         | +0.7                      | 100     | 21†   | 44     | 31    | 46                       | 0.92  | -2.85                     | 0.39                 | 0                         | 5                            | 28    | 1          | 2                            | .....     | W. L. Gearhart.              |
| Center Hall.....        | Center.....       | 1,272           | 34                      | 70.4                         | -1.0                      | 98      | 28    | 44     | 10†   | 41                       | 4.65  | +0.76                     | 2.45                 | 0                         | 6                            | 27    | 4          | 0                            | .....     | S. W. Smith.                 |
| Chambersburg.....       | Franklin.....     | 580             | 31                      | 76.2                         | +1.5                      | 104     | 21    | 46     | 15†   | 43                       | 0.60  | -2.68                     | 0.39                 | 0                         | 3                            | 17    | 13         | 1                            | sw.       | William B. Spear.            |
| Clearfield.....         | Clearfield.....   | 1,120           | 21                      | 73.0                         | +1.5                      | 102     | 21    | 42     | 15    | 45                       | 2.64  | -1.36                     | 1.58                 | 0                         | 7                            | 24    | 5          | 2                            | w.        | E. W. Hess.                  |
| Coatesville.....        | Chester.....      | 380             | 43                      | 75.3                         | +0.6                      | 102     | 21    | 49     | 16    | 35                       | 3.17  | -1.85                     | 1.00                 | 0                         | 9                            | 15    | 15         | 1                            | nw.       | Prof. W. T. Gordon.          |
| Colebrook.....          | Lebanon.....      | 560             | 21                      | 73.2                         | +0.7                      | 101     | 21    | 46     | 15    | 34                       | 2.73  | -1.94                     | 1.16                 | 0                         | 8                            | 24    | 6          | 1                            | n.        | Wm. A. Rorer.                |
| Emporium.....           | Cameron.....      | 1,050           | 43                      | 68.9                         | -1.3                      | 95      | 21    | 42     | 15    | 38                       | 2.07  | -2.37                     | 0.82                 | 0                         | 7                            | 22    | 7          | 2                            | w.        | T. B. Lloyd.                 |
| Ephrata.....            | Lancaster.....    | 380             | 30                      | 75.4                         | +1.4                      | 101     | 21    | 50     | 15    | 34                       | 1.11  | -3.43                     | 0.54                 | 0                         | 6                            | 14    | 9          | 8                            | w.        | Ira J. Keath.                |
| Freeland.....           | Luzerne.....      | 1,970           | 15                      | 70.3                         | +1.8                      | 94      | 21    | 46     | 15    | 26                       | 4.98  | +0.47                     | 2.10                 | 0                         | 10                           | 6     | 20         | 5                            | nw.       | Theo. Reichmann.             |
| George School.....      | Bucks.....        | 190             | 24                      | 75.9                         | +2.3                      | 102     | 21    | 51     | 15    | 34                       | 3.07  | -1.31                     | 0.91                 | 0                         | 12                           | 19    | 7          | 5                            | n.        | Prof. N. W. Swayne           |
| Gettysburg.....         | Adams.....        | 553             | 57                      | 77.4                         | +3.4                      | 101     | 19†   | 49     | 16    | 38                       | 1.48  | -2.14                     | 1.34                 | 0                         | 4                            | 21    | 9          | 1                            | nw.       | Dr. Henry Stewart            |
| Gordon.....             | Schuylkill.....   | 840             | 27                      | 71.4                         | +1.2                      | 97      | 21    | 42     | 16    | 43                       | 2.48  | -2.76                     | 0.65                 | 0                         | 8                            | 22    | 6          | 3                            | w.        | Capt. J. G. Johnson          |
| Gouldsboro.....         | Wayne.....        | 1,875           | 16                      | 65.4                         | .....                     | 92      | 21    | 38     | 16    | 42                       | 4.29  | .....                     | 1.59                 | 0                         | 9                            | 21    | 9          | 1                            | w.        | Gustav Holtz.                |
| Hamburg.....            | Berks.....        | 535             | 37                      | 73.8                         | -0.1                      | 100     | 21    | 46     | 16    | 40                       | 2.42  | -2.29                     | 0.99                 | 0                         | 6                            | 19    | 12         | 0                            | w.        | State Sanatorium.            |
| Hanover.....            | York.....         | 600             | 27                      | 78.2                         | +2.8                      | 102     | 21    | 52     | 16    | 33                       | 0.76  | -3.71                     | 0.60                 | 0                         | 7                            | 24    | 4          | 3                            | n.        | Thomas Y. Cooper.            |
| Harrisburg.....         | Dauphin.....      | 361             | 61                      | 77.0                         | +2.2                      | 100     | 21    | 55     | 16    | 31                       | 1.24  | -2.59                     | 0.48                 | 0                         | 7                            | 13    | 13         | 5                            | nw.       | U. S. Weather Bureau.        |
| Hawley.....             | Wayne.....        | 900             | 12                      | 69.3                         | .....                     | 96      | 21    | 41     | 16    | 44                       | 3.03  | .....                     | 0.76                 | 0                         | 8                            | 20    | 10         | 1                            | w.        | Mrs. Della M. Pennell.       |
| Holtwood.....           | Lancaster.....    | 200             | 15                      | 79.8                         | .....                     | 104     | 22    | 57     | 16    | 29                       | 2.53  | -1.97                     | 1.50                 | 0                         | 7                            | 15    | 15         | 1                            | .....     | H. W. Lowy, C. E.            |
| Huntingdon.....         | Huntingdon.....   | 650             | 43                      | 72.4                         | +0.2                      | 101     | 26    | 42†    | 16    | 45                       | 2.50  | -1.29                     | 1.87                 | 0                         | 5                            | 20    | 9          | 2                            | w.        | Prof. H. A. Conner.          |
| Hyndman.....            | Bedford.....      | 977             | 18                      | 75.6                         | +3.6                      | 104     | 20†   | 41     | 15    | 50                       | 0.76  | -2.35                     | 0.27                 | 0                         | 6                            | 17    | 6          | 8                            | .....     | Horace A. Sheavly.           |
| Kylertown.....          | Clearfield.....   | 1,637           | .....                   | 69.5                         | .....                     | 95      | 21†   | 38     | 15    | 41                       | 1.80  | .....                     | 1.07                 | 0                         | 6                            | 21    | 8          | 2                            | w.        | U. S. Bureau Plant Industry. |
| Lancaster.....          | Lancaster.....    | 255             | 43                      | 75.3                         | +1.9                      | 104     | 21    | 48     | 15    | 39                       | 1.69  | -2.23                     | 0.53                 | 0                         | 6                            | 20    | 8          | 3                            | nw.       | Supt. of Water Works.        |
| Lawrenceville.....      | Tioga.....        | 1,000           | 33                      | 70.2                         | 0.0                       | 98      | 21    | 42     | 15    | 43                       | 2.43  | -1.87                     | 0.48                 | 0                         | 12                           | 18    | 13         | 0                            | .....     | C. P. Darling.               |
| Lebanon.....            | Lebanon.....      | 469             | 90                      | 76.8                         | +3.2                      | 103     | 21    | 51     | 15†   | 37                       | 1.91  | -2.36                     | 0.56                 | 0                         | 7                            | 22    | 9          | 0                            | w.        | S. B. Benzing.               |
| Lewisburg.....          | Union.....        | 450             | 56                      | 75.2                         | +3.7                      | 101     | 21    | 47     | 15†   | 41                       | 2.39  | -1.58                     | 0.78                 | 0                         | 7                            | 19    | 8          | 4                            | w.        | Prof. W. G. Owens.           |
| Lock Haven.....         | Clinton.....      | 560             | 42                      | 75.4                         | +2.1                      | 102     | 21    | 48     | 16    | 41                       | 2.88  | -1.12                     | 0.96                 | 0                         | 10                           | 19    | 11         | 1                            | w.        | Joseph Beaver.               |
| Lykens.....             | Dauphin.....      | 680             | 16                      | 73.0                         | +1.2                      | 102     | 20    | 42     | 16    | 44                       | 2.69  | -2.20                     | 1.05                 | 0                         | 9                            | 20    | 10         | 1                            | nw.       | Susquehanna Collieries Co.   |
| Mauch Chunk.....        | Carbon.....       | 600             | 41                      | 73.8                         | +1.5                      | 102     | 21    | 45     | 5     | 44                       | 1.94  | -3.16                     | 0.98                 | 0                         | 8                            | 19    | 7          | 5                            | w.        | R. K. Wintermute.            |
| Mifflintown.....        | Juniata.....      | 445             | 27                      | 74.2                         | +1.5                      | 100     | 21†   | 45     | 15    | 41                       | 2.35  | -1.76                     | 0.73                 | 0                         | 8                            | 24    | 3          | 4                            | w.        | Wellington Smith.            |
| Montrose.....           | Susquehanna.....  | 1,720           | 28                      | 66.7                         | -1.5                      | 91      | 21    | 42     | 8     | 40                       | 1.98  | -2.28                     | 0.73                 | 0                         | 7                            | 18    | 7          | 6                            | w.        | Silas Jagger.                |
| Mt. Pocono.....         | Monroe.....       | 1,658           | 26                      | 66.6                         | +0.4                      | 90      | 21    | 40     | 4     | 32                       | 4.78  | -0.38                     | 2.41                 | 0                         | 13                           | 20    | 4          | 7                            | nw.       | Cecil J. Hoskinson.          |
| Muncy Valley.....       | Sullivan.....     | 1,045           | 19                      | 69.8                         | +0.1                      | 98      | 21    | 41     | 15    | 40                       | 2.52  | -2.45                     | 0.88                 | 0                         | 8                            | 22    | 7          | 2                            | w.        | H. O. Hacker.                |
| Narberth.....           | Montgomery.....   | 300             | 11                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | Charles Decker.              |
| Neshaminy Falls††       | Bucks.....        | 60              | 41                      | 74.4                         | +1.3                      | 102     | 21    | 51     | 16    | 33                       | 3.97  | .....                     | 0.90                 | 0                         | 11                           | 21    | 7          | 3                            | sw.       | North Springfield Water Co.  |
| Palmerton.....          | Carbon.....       | 398             | 14                      | 72.4                         | .....                     | 100     | 21    | 47     | 16    | 38                       | 2.78  | .....                     | 1.53                 | 0                         | 8                            | 20    | 9          | 2                            | sw.       | New Jersey Zinc Co.          |
| Philadelphia.....       | Philadelphia..... | 114             | 59                      | 78.0                         | +1.8                      | 103     | 21    | 58     | 15    | 25                       | 4.06  | -0.09                     | 1.38                 | 0                         | 12                           | 6     | 14         | 11                           | sw.       | U. S. Weather Bureau.        |
| Philadelphia-Gtn.....   | Philadelphia..... | 113             | 6                       | 78.2                         | .....                     | 104     | 21    | 57     | 15    | 26                       | 3.10  | .....                     | 1.32                 | 0                         | 10                           | 7     | 13         | 11                           | .....     | Julius Bernstein.            |
| Phila. Navy Yard.....   | Philadelphia..... | 12              | 15                      | 76.4                         | +0.7                      | 102     | 21    | 58     | 15†   | 29                       | 4.85  | -0.53                     | 2.10                 | 0                         | 13                           | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.       |
| Phila-Point Breeze..... | Philadelphia..... | 90              | 5                       | 78.0                         | .....                     | 103     | 21    | 59     | 15    | 29                       | 3.76  | .....                     | 1.62                 | 0                         | 13                           | 6     | 10         | 15                           | sw.       | Atlantic Refining Co.        |
| Phoenixville.....       | Chester.....      | 100             | 20                      | 77.6                         | +3.1                      | 106     | 21    | 50     | 16    | 36                       | 2.44  | -2.60                     | 1.22                 | 0                         | 8                            | 21    | 10         | 0                            | sw.       | North Springfield Water Co.  |
| Quakertown.....         | Bucks.....        | 496             | 46                      | 73.5                         | +1.0                      | 100     | 21    | 46     | 16    | 40                       | 5.21  | +0.39                     | 1.35                 | 0                         | 11                           | 15    | 13         | 3                            | nw.       | John E. Benner.              |
| Reading.....            | Berks.....        | 325             | 61                      | 76.6                         | +1.1                      | 101     | 21    | 54     | 15    | 30                       | 1.73  | -2.53                     | 0.79                 | 0                         | 9                            | 10    | 14         | 7                            | n.        | U. S. Weather Bureau.        |
| Scranton.....           | Lackawanna.....   | 805             | 36                      | 71.2                         | -0.5                      | 99      | 21    | 48     | 16    | 36                       | 2.78  | -1.25                     | 0.98                 | 0                         | 7                            | 10    | 17         | 4                            | n.        | U. S. Weather Bureau.        |
| Selinsgrove.....        | Snyder.....       | 455             | 42                      | 74.8                         | +1.3                      | 101     | 21    | 46     | 15†   | 39                       | 1.08  | -3.30                     | 0.52                 | 0                         | 6                            | 24    | 5          | 2                            | sw.       | Dr. George E. Fisher.        |
| Shawmont††.....         | Philadelphia..... | 51              | 35                      | 77.4                         | .....                     | 100     | 21    | 56     | 15    | 28                       | 2.94  | -1.65                     | 1.07                 | 0                         | 9                            | 14    | 9          | 8                            | w.        | W. S. Guiles.                |
| State College.....      | Center.....       | 1,217           | 46                      | 72.5                         | +1.9                      | 97      | 21†   | 45     | 15    | 37                       | 2.48  | -1.30                     | 1.22                 | 0                         | 7                            | 21    | 6          | 4                            | w.        | C. A. Kern.                  |
| Stroudsburg.....        | Monroe.....       | 500             | 16                      | 70.8                         | -0.5                      | 102     | 21    | 41     | 17    | 49                       | 1.71  | -4.09                     | 1.10                 | 0                         | 4                            | 16    | 13         | 2                            | w.        | State Normal School.         |
| Towanda.....            | Bradford.....     | 754             | 36                      | 69.4                         | -1.2                      | 95      | 21    | 46     | 4†    | 37                       | 2.49  | -1.58                     | 1.00                 | 0                         | 13                           | 19    | 6          | 6                            | sw.       | Hiram E. Bull, C. E.         |
| Wellsboro.....          | Tioga.....        | 1,419           | 66                      | 68.0                         | -0.9                      | 97      | 21    | 40     | 15    | 43                       | 1.23  | -2.77                     | 0.42                 | 0                         | 4                            | 27    | 2          | 2                            | sw.       | George W. Hill.              |
| West Chester.....       | Chester.....      | 455             | 93                      | 76.2                         | +1.9                      | 99      | 21    | 55     | 15    | 28                       | 2.27  | -2.56                     | 0.70                 | 0                         | 10                           | 17    | 13         | 1                            | sw.       | Joseph W. Belt.              |
| Williamsport.....       | Lycoming.....     | 521             | 44                      | 73.2                         | +0.1                      | 99      | 21    | 47     | 16    | 39                       | 2.60  | -1.36                     | 0.73                 | 0                         | 7                            | 23    | 3          | 5                            | w.        | Miss Veronica E. April.      |
| York.....               | York.....         | 400             | 43                      | 76.2                         | +1.8                      | 102     | 21    | 46     | 15    | 42                       | 1.51  | -2.98                     | 1.19                 | 0                         | 6                            | 21    | 10         | 0                            | s.        | York Water Co.               |
| Ohio Drainage.          |                   |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                              |
| Beaver Dam††.....       | Beaver.....       | 700             | 38                      | 73.2                         | -0.7                      | 98      | 19†   | 48     | 15    | 42                       | 1.82  | -2.05                     | 0.65                 | 0                         | 9                            | 12    | 15         | 4                            | sw.       | U. S. Engineer.              |
| Bradford.....           | McKean.....       | 1,460           | 15                      | 69.0                         | +0.3                      | 96      | 28    | 42     | 4†    | 48                       | 1.77  | -1.97                     | 0.62                 | 0                         | 6                            | 16    | 13         | 2                            | w.        | Supt. Timber Pres. Plant.    |
| Brookville.....         | Jefferson.....    | 1,173           | 40                      | 67.2†                        | -1.2                      | 99†     | 21    | 37†    | 15    | 52†                      | 3.56  | -1.00                     | 2.29                 | 0                         | 6                            | 26    | 3          | 2                            | w.        | John Fawcett.                |
| Butler.....             | Butler.....       | 1,152           | 9                       | 72.7                         | .....                     | 99      | 20†   | 41     | 1     |                          |       |                           |                      |                           |                              |       |            |                              |           |                              |



## Daily Precipitation for July, 1930

| Stations           | Drainage Basin | Day of month |      |     |      |     |      |      |     |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |      |      |      |     |     |     |     | Total |      |
|--------------------|----------------|--------------|------|-----|------|-----|------|------|-----|------|------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|------|
|                    |                | 1            | 2    | 3   | 4    | 5   | 6    | 7    | 8   | 9    | 10   | 11  | 12  | 13  | 14  | 15  | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23  | 24   | 25   | 26   | 27  | 28  | 29  | 30  |       | 31   |
| Atlantic Drainage. |                |              |      |     |      |     |      |      |     |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |      |      |      |     |     |     |     |       |      |
| Allentown          | Lehigh         |              | .19  |     |      |     | .03  |      | .05 | 2.37 |      | .02 | .05 |     |     |     |    |    |    |    |    |     |     | .51 | 1.00 |      | .14  |     |     | .38 |     | 4.74  |      |
| Altoona            | Juniata        |              | .10  |     |      |     | .45  | .40  |     |      |      |     | .23 | .26 |     |     |    |    |    |    |    |     |     | .04 |      |      |      |     |     |     |     | 1.48  |      |
| Ansonia            | W. Br. Susq.   | .36          | .21  |     |      |     |      | .03  |     | T.   | .11  |     |     | .32 |     |     |    |    |    |    | T. |     |     | .01 | .30  |      |      | .01 |     |     |     | 1.35  |      |
| Arendtsville       | Lower Susq.    |              | .15  |     |      |     |      | .02  |     |      |      |     |     | T.  |     |     |    |    |    |    |    |     | .06 | .07 |      |      |      |     |     |     |     | 0.17  |      |
| Baker's Summit     | Juniata        | .07          | .13  |     |      |     |      | 1.42 |     |      |      |     |     | .13 | .22 |     |    |    |    |    |    |     | .06 | .07 |      |      |      |     |     |     |     | 2.10  |      |
| Bellefonte         | W. Br. Susq.   | .17          |      |     |      | T.  | .49  |      |     | .01  |      | T.  |     | .34 | .03 |     |    |    |    |    | T. |     |     | .33 |      |      |      |     |     | .01 | .03 | 1.41  |      |
| Bethlehem          | Lehigh         | .25          | .07  |     |      |     | .04  | .05  |     | .27  | 3.02 | .01 |     | T.  | .21 |     |    |    |    |    |    | T.  |     | .51 | .11  | 1.23 |      | .13 |     | .56 |     | 6.46  |      |
| Blosserville       | Lower Susq.    |              |      |     | 1.10 |     |      |      |     |      |      |     |     | .03 | .14 |     |    |    |    |    |    |     | .17 |     |      |      |      |     |     |     |     | 1.44  |      |
| Carlisle           | Lower Susq.    |              | .03  |     |      |     |      | .82  |     | T.   |      |     |     | .08 |     |     |    |    |    |    |    |     |     | .07 |      | .01  |      |     |     |     |     | 1.01  |      |
| Catawissa          | N. Br. Susq.   | .13          |      |     |      |     | .19  |      |     | .06  |      |     |     | .15 |     |     |    |    |    |    |    |     |     | .39 |      |      |      |     |     |     |     | 0.92  |      |
| Center Hall        | Susquehanna    |              | 1.25 |     |      |     | 2.45 | .37  |     |      |      |     |     | .18 |     |     |    |    |    |    |    |     |     | .20 |      |      |      |     |     |     |     | 4.65  |      |
| Chambersburg       | Potomac        | T.           | .39  |     |      | T.  | T.   | .16  |     |      | .05  |     |     | .08 | .23 |     |    |    |    |    |    |     | T.  | .23 |      |      |      |     |     |     | T.  | 0.60  |      |
| Clearfield         | W. Br. Susq.   | .21          | .31  |     |      | T.  | 1.37 | .21  |     |      |      |     |     | .08 | .23 |     |    |    |    |    |    |     |     | .95 |      | .17  |      |     |     |     |     | 2.64  |      |
| Coatesville        | Lower Del.     | 1.00         |      | .05 |      |     | .66  | .03  |     |      | .18  | .02 |     | .11 |     |     |    |    |    |    |    |     |     |     |      |      |      |     |     |     |     | 3.17  |      |
| Colebrook          | Lower Susq.    | .43          | .01  |     |      | T.  | .88  | .28  |     |      | .78  |     |     | T.  |     |     |    |    |    |    |    |     |     | .05 | .29  | .01  |      |     |     |     |     | 2.73  |      |
| Conshohocken       | Schuylkill     | .59          |      | T.  |      |     | T.   | .74  |     |      | .56  |     |     |     | .20 |     |    |    |    |    |    |     |     | .54 |      | .22  |      |     |     |     |     | 2.85  |      |
| Cresson            | Juniata        | .12          |      |     |      |     | 2.25 |      |     |      |      |     |     | .61 |     |     |    |    |    |    |    |     |     | .06 |      |      |      |     |     |     |     | 3.04  |      |
| Doylestown         | Lower Del.     | 1.33         |      | .04 |      |     | .04  | .08  |     |      | .77  | .05 |     |     | .12 |     |    |    |    |    |    |     |     | .15 |      | T.   |      |     |     |     | .72 | 3.30  |      |
| Driftwood          | W. Br. Susq.   |              | .45  |     |      |     |      | .20  |     |      |      |     |     | .50 |     |     |    |    |    |    |    |     | .50 | .05 |      |      |      |     |     |     |     | 1.70  |      |
| Emporium           | do             | .42          |      |     |      |     | .18  | .11  |     |      | T.   |     |     | .12 | .19 |     |    |    |    |    | T. | .23 |     | .82 |      | T.   |      |     |     |     |     | 2.07  |      |
| Ephrata            | Lower Susq.    | .21          |      |     |      |     | T.   | .54  |     |      | .27  |     |     |     | .01 |     |    |    |    |    |    |     |     | .06 | T.   | .02  |      |     |     |     |     | 1.11  |      |
| Forest City        | N. Br. Susq.   | .05          | .33  |     |      |     | .36  |      |     |      | .67  | .03 |     |     | .57 | .03 |    |    |    |    |    | .08 |     | .32 | .07  |      |      |     |     |     |     | 2.60  |      |
| Freeland           | Lehigh         | .11          | 2.10 |     |      |     | .13  | .04  |     |      | 1.75 | .03 | .14 |     | .35 |     |    |    |    |    |    | .03 |     | .30 |      | .03  | T.   |     |     |     | .78 | 4.98  |      |
| George School      | Lower Del.     | .90          | .01  | .05 | .07  |     | .03  | .10  |     |      | .54  | .03 |     |     | .38 |     |    |    |    |    |    |     | T.  | .15 | .03  | T.   |      |     |     |     |     | 3.07  |      |
| Gettysburg         | Potomac        |              | 1.34 |     |      |     | T.   | .07  |     |      |      |     |     | .01 | .06 |     |    |    |    |    |    |     |     | T.  |      |      |      |     |     |     |     | 1.48  |      |
| Girardville        | Lower Susq.    | .52          |      |     |      |     | .12  |      |     | .55  |      |     |     | T.  | .14 |     |    |    |    |    |    |     |     | .46 |      |      |      | .01 |     |     |     | 1.80  |      |
| Gordon             | Lower Susq.    | .64          | .65  |     |      |     | .10  | .02  |     |      | .29  |     |     |     | .28 |     |    |    |    |    |    |     |     | .35 |      |      | .15  |     |     |     |     | 2.48  |      |
| Gouldsboro         | Lehigh         |              | 1.59 |     |      |     | .25  | .02  |     | 1.25 |      |     |     | .78 |     |     |    |    |    |    |    |     |     | .08 | .20  | .02  |      | .15 |     |     |     | 4.29  |      |
| Graterford         | Schuylkill     | .24          |      | .15 |      |     | .06  | .22  |     |      | .88  |     |     |     | .18 |     |    |    |    |    |    |     |     | .68 |      | .12  |      |     |     |     |     | 2.41  |      |
| Hamburg            | Schuylkill     | .99          |      |     |      |     | .12  |      |     | .78  |      |     |     |     | .08 |     |    |    |    |    |    |     |     |     | .33  |      | .12  |     |     |     |     |       | 2.42 |
| Hanover            | Lower Susq.    | .02          | .60  |     |      |     | .02  | .06  |     |      | T.   |     |     | T.  |     |     |    |    |    |    |    |     |     | .02 | .03  | .01  |      |     |     |     |     | 0.76  |      |
| Harrisburg         | do             | .09          |      |     |      | T.  | .24  |      |     | .30  |      |     |     | .03 | .05 |     |    |    |    |    |    |     |     |     | .05  |      | .48  |     |     |     |     | 1.24  |      |
| Hawley             | Upper Del.     |              | .76  |     |      |     | .50  |      |     | .58  | .02  |     |     | .20 |     |     |    |    |    |    |    |     |     | .21 | .21  |      | .55  |     |     |     |     | 3.03  |      |
| Hollisterville     | Upper Del.     | 2.12         | .17  |     |      |     | .21  |      |     | .52  | T.   | .03 |     |     | .21 |     |    |    |    |    |    |     |     |     | .24  | .35  |      |     | .01 |     |     |       | 3.69 |
| Holtwood           | Lower Susq.    |              | .11  |     |      |     | .07  |      |     | .26  |      |     |     | .06 |     |     |    |    |    |    |    |     |     |     | .24  |      | 1.50 |     |     | .29 |     |       | 2.53 |
| Huntingdon         | Juniata        |              | .26  |     |      | T.  | .37  | 1.50 |     |      | T.   |     |     | .31 |     |     |    |    |    |    |    |     |     |     | .06  |      |      |     |     |     | T.  | 2.50  |      |
| Hyndman            | Potomac        | T.           | .09  |     |      |     | .01  | .27  |     |      | T.   |     |     | .26 |     |     |    |    |    |    |    |     |     |     | .04  |      |      |     | .09 |     |     |       | 0.76 |
| Kylertown          | W. Br. Susq.   |              | .15  |     |      | .01 | 1.04 | .03  |     |      |      |     |     | .37 |     |     |    |    |    |    |    |     |     |     | .20  |      |      |     |     |     |     | 1.80  |      |
| Lakeville          | Upper Del.     |              | 1.20 |     |      |     | .45  | T.   |     |      | .65  | T.  |     |     | .18 |     |    |    |    |    |    |     |     |     | .15  | .35  | T.   | .35 |     |     |     | 3.33  |      |
| Lancaster          | Lower Susq.    | .19          |      |     |      |     | .29  |      |     | .48  |      |     |     |     |     |     |    |    |    |    |    |     |     | .53 |      | .19  |      |     |     |     |     | 1.69  |      |
| Lansford           | Lehigh         | .05          | .18  | T.  |      |     | .06  |      |     | 1.75 | .01  | .01 |     |     | .20 |     |    |    |    |    |    |     |     |     | .78  |      | .18  | T.  |     | .02 | T.  |       | 3.24 |
| Lawrenceville      | N. Br. Susq.   | .18          | .05  |     |      |     | .30  | .10  |     | .05  | .42  | .35 | .05 | .10 | .48 |     |    |    |    |    |    | .15 |     | .20 |      |      |      |     |     |     |     | 2.43  |      |
| Lebanon            | Lower Susq.    | .45          | T.   |     |      | T.  | .20  | .56  |     |      | .36  |     |     | T.  |     |     |    |    |    |    |    |     |     | .26 |      | .03  | .05  |     | T.  |     |     | 1.91  |      |
| Lewisburg          | W. Br. Susq.   |              | .55  |     |      |     | .11  | .01  |     |      | .78  |     |     | .41 | .04 |     |    |    |    |    |    |     |     | .49 |      |      |      |     |     |     |     | 2.39  |      |
| Lloyd              | do             |              |      |     |      |     |      | .03  |     |      |      |     |     |     |     |     |    |    |    |    |    | .02 |     |     | .38  |      |      |     | .05 |     |     | 2.88  |      |
| Lock Haven         | do             | .02          | .52  |     |      |     | .35  | .03  |     |      | .07  |     |     | .48 | .96 |     |    |    |    |    |    |     |     | .02 | .05  | .05  | T.   |     |     |     |     | 2.69  |      |
| Lykens             | Susquehanna    | .10          | .33  |     |      |     | 1.05 | .30  |     |      | .61  | T.  |     |     | .18 |     |    |    |    |    |    |     |     | .02 | .05  | .05  | T.   |     |     |     |     | 1.94  |      |
| Mauch Chunk        | Lehigh         | .14          | .11  |     |      |     | .09  |      |     | .51  | .47  | .05 |     |     | .16 |     |    |    |    |    |    |     |     | .41 |      |      |      |     |     |     |     | 2.35  |      |
| Midlinton          | Juniata        | .02          | .02  |     |      |     | 1.56 | .60  |     |      | .02  |     |     | .04 | .04 |     |    |    |    |    |    |     |     | .05 |      |      |      |     |     |     |     |       |      |
| Montrose           | N. Br. Susq.   | .32          | .41  |     |      |     |      |      | .70 |      |      |     |     | .10 |     |     |    |    |    |    |    |     |     | .19 | .16  |      |      |     |     |     |     | 1.98  |      |
| Morris Run         | N. Br. Susq.   | .34          |      |     |      |     | .21  |      |     | .06  | .10  | .16 |     | .01 | .40 |     |    |    |    |    |    |     |     | .05 |      | .60  |      | .01 |     |     |     | 2.56  |      |
| Mount Pocono       | Upper Del.     | .22          | 2.41 |     |      |     | .03  | .03  |     | .17  | .01  | .05 |     | .03 | .25 | .03 |    |    |    |    |    |     |     |     | .30  | .03  | .18  |     |     |     |     | 4.78  |      |
| Muncy Valley       | W. Br. Susq.   | .26          | .24  |     |      |     | T.   | T.   |     | T.   | .32  | .09 |     | .39 | .88 |     |    |    |    |    |    |     |     |     | .20  |      |      |     |     |     |     | 2.52  |      |
| Narberth           | Lower Del.     |              |      |     |      |     |      |      |     |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |      | .75  | .08  | T.  |     |     |     | 8.97  |      |
| Neshaminy          | Lower Del.     |              | .66  | .10 | .05  |     | .03  | .12  |     |      | .90  |     |     | .30 | .25 |     |    |    |    |    |    |     |     | .17 | .42  | .34  |      |     |     |     |     | 1.08  |      |
| New Park           | Lower Susq.    | T.           |      |     |      |     | .03  |      |     | .10  |      |     |     |     |     |     |    |    |    |    |    |     |     |     |      |      |      |     |     |     |     |       |      |
| Palmerton          | Lehigh         | .26          |      |     |      |     | .12  |      |     | 1.45 | .08  | .03 |     |     | .21 |     |    |    |    |    |    |     |     |     | .62  |      | .01  |     |     |     |     |       |      |



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| Stations           | Drainage Basin    | Day of month |     |     |     |     |      |      |   |      |    |    |     |      |      |     |    |    |    |    |     |     |     |     |     |     |     |     |     |     |    |    | Total |
|--------------------|-------------------|--------------|-----|-----|-----|-----|------|------|---|------|----|----|-----|------|------|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-------|
|                    |                   | 1            | 2   | 3   | 4   | 5   | 6    | 7    | 8 | 9    | 10 | 11 | 12  | 13   | 14   | 15  | 16 | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30 | 31 |       |
| Ohio Drainage.     |                   |              |     |     |     |     |      |      |   |      |    |    |     |      |      |     |    |    |    |    |     |     |     |     |     |     |     |     |     |     |    |    |       |
| Beaver Dam\|\|\| | Ohio.....         | .02          | .11 |     |     |     | .07  | .01  |   |      |    |    |     | .22  | .48  |     |    |    |    |    |     |     | .03 | .62 |     |     |     | .26 |     |     |    |    | 1.82  |
| Beaver Falls\|\|\| | Beaver.....       | T.           | .13 |     |     |     | .05  | .06  |   |      |    |    |     | .05  | .14  |     |    |    |    |    |     |     | T.  | .57 |     |     |     | .10 |     |     |    |    | 1.10  |
| Bradford.....      | Allegheny.....    | .62          |     |     |     |     | .25  |      |   |      |    |    |     | .58  | .10  |     |    |    |    |    | .02 |     | .20 |     |     |     |     |     |     |     |    |    | 1.77  |
| Brookville.....    | do.....           | .32          |     |     |     |     | 2.29 |      |   |      |    |    | .33 | .30  |      |     |    |    |    |    |     | .13 | .19 |     |     |     |     |     |     |     |    |    | 3.56  |
| Butler.....        | Ohio.....         | .20          | .22 |     |     |     |      |      |   |      |    |    |     | .71  |      |     |    |    |    |    |     |     | .53 |     |     |     | .63 |     |     |     |    |    | 2.22  |
| Chambersville..... | Allegheny.....    | .59          |     |     |     | T.  | .99  | .04  |   |      |    |    |     | .34  | .42  |     |    |    |    |    |     |     | .29 |     |     |     | .04 | .06 |     |     |    |    | 2.77  |
| Claysville.....    | Ohio.....         | .26          |     |     |     |     | .14  | .10  |   |      |    |    |     | .01  | .28  |     |    |    |    |    |     |     | .02 |     |     |     |     | .04 |     |     |    |    | 0.85  |
| Cloeff.....        | Allegheny.....    | .14          | .10 |     |     |     | 1.06 |      |   |      |    |    |     | .47  | .06  |     |    |    |    |    |     |     | .30 |     |     |     |     |     |     |     |    |    | 2.13  |
| Clymer II.....     | Conemaugh.....    |              |     | .03 | .15 |     |      | .22  |   | 2.50 |    |    | .75 |      |      |     |    |    |    |    |     | T.  |     |     |     |     |     |     |     |     |    |    | 3.65  |
| Confluence\|\|\| | Youghiogheny..... | .06          |     |     |     |     | .04  | .25  |   | .11  |    |    |     | .04  | .82  |     |    |    |    |    |     |     |     | .30 |     |     |     |     |     |     |    |    | 1.62  |
| Corapolis\|\|\| | Ohio.....         |              |     |     |     |     |      |      |   |      |    |    |     |      |      |     |    |    |    |    |     |     |     |     |     |     |     |     |     |     |    |    |       |
| Corry.....         | Allegheny.....    |              |     |     |     | T.  | .45  |      |   |      | T. |    |     | .65  | .19  |     |    |    |    |    |     | .25 | .15 |     |     |     |     | T.  |     |     |    |    | 1.69  |
| Coudersport.....   | Allegheny.....    | .26          |     |     |     |     |      |      |   | .05  |    |    |     | .65  |      |     |    |    |    |    |     |     | .02 | .18 |     |     |     |     |     |     |    |    | 1.16  |
| Derry.....         | Conemaugh.....    | .36          | T.  |     |     |     | T.   | 1.45 |   |      |    |    |     | .15  | T.   |     |    |    |    |    |     |     | .09 | .14 |     |     |     | T.  |     |     |    |    | 2.19  |
| Donora\|\|\| | Monongahela.....  | T.           |     |     |     |     | T.   | .13  |   |      |    |    |     | T.   | .02  |     |    |    |    |    |     | T.  | .05 | .18 |     |     |     |     | .55 |     |    |    | 0.93  |
| Ebensburg.....     | Conemaugh.....    | .20          | .12 |     |     | T.  |      | 2.05 |   |      |    |    |     | .15  | .27  |     |    |    |    |    |     |     | .10 |     |     |     |     |     |     |     |    |    | 2.89  |
| Elk Lick.....      | Youghiogheny..... |              |     |     |     |     |      | .18  |   | .16  |    |    |     | .65  | .10  |     |    |    |    |    |     |     | .10 |     |     |     | .03 |     |     |     |    |    | 1.22  |
| Falls Creek.....   | Allegheny.....    | .27          |     |     |     |     | 2.23 |      |   |      |    |    |     | .78  |      |     |    |    |    |    |     |     | .51 |     |     |     |     |     |     |     |    |    | 3.79  |
| Franklin\|\|\| | Allegheny.....    | .28          | .47 |     |     | .04 |      | .31  |   |      |    |    |     | .08  | .14  |     |    |    |    |    |     |     | .05 | .72 |     |     |     |     |     |     |    |    | 2.09  |
| Freeport\|\|\| | do.....           | T.           | .16 |     |     | .01 | .09  | .07  |   |      |    |    |     | .11  | .46  | T.  |    |    |    |    |     |     |     | .31 |     |     |     | .26 |     |     |    |    | 1.47  |
| Greensboro.....    | Monongahela.....  | .10          | .39 |     |     |     | .15  | .22  |   |      |    |    |     | .17  | .52  |     |    |    |    |    |     |     | T.  |     |     |     | .02 |     |     |     |    |    | 1.57  |
| Greensburg.....    | Youghiogheny..... | .18          |     |     |     |     | .06  | .65  |   |      |    |    |     | T.   | T.   |     |    |    |    |    |     |     | .17 |     |     | .03 | .13 |     |     |     |    |    | 1.22  |
| Greenville.....    | Beaver.....       | .25          | .12 |     |     |     | .09  |      |   |      |    |    |     | .73  | .09  |     |    |    |    |    |     |     | .27 |     |     |     |     |     |     |     |    |    | 1.55  |
| Grove City.....    | do.....           | .07          | .12 |     |     |     | .58  |      |   |      |    |    |     | .28  | .10  |     |    |    |    |    |     |     | .58 |     |     |     | .01 |     |     |     |    |    | 1.74  |
| Herr's Isl. Dam\|\|\| | Ohio.....         | .01          | .18 |     |     |     | T.   | .74  |   |      |    |    |     |      | .06  | T.  |    |    |    |    |     |     | .04 | .14 |     |     |     | .07 |     |     |    |    | 1.24  |
| Ingram.....        | do.....           | .26          |     |     |     |     | .25  | .16  |   |      |    |    |     | T.   | .10  |     |    |    |    |    |     |     | .19 | .30 |     |     |     | .01 | .09 |     |    |    | 1.36  |
| Irwin.....         | Youghiogheny..... | .06          | .03 |     |     |     | .05  | .17  |   |      |    |    |     |      |      |     |    |    |    |    |     |     | .07 |     |     |     | .11 | .09 |     |     |    |    | 0.58  |
| Johnstown.....     | Conemaugh.....    | .38          |     |     |     |     | .44  | .87  |   | T.   |    |    |     | .10  | .15  |     |    |    |    |    |     |     | .20 | .30 |     |     |     | T.  | T.  |     |    |    | 2.44  |
| Kregar\|\|\| | Youghiogheny..... | .44          |     |     |     | .01 | .93  |      |   | .03  |    |    |     | .28  |      |     |    |    |    |    |     |     | .02 | .33 |     |     | .16 |     |     |     |    |    | 2.20  |
| Lock No. 4\|\|\| | Monongahela.....  | .02          | .02 |     |     |     | T.   | .13  |   |      |    |    |     |      | .08  |     |    |    |    |    |     |     | .02 | .25 |     |     |     | .45 | .02 |     |    |    | 0.99  |
| Lycippus.....      | Conemaugh.....    | .95          |     |     |     |     | .07  | .40  |   |      |    |    |     | T.   |      |     |    |    |    |    |     |     | .10 | .04 |     |     |     | .10 |     |     |    |    | 1.66  |
| Meadville.....     | Allegheny.....    | .50          | .04 |     |     |     | .26  |      |   |      |    |    |     | .69  | .31  |     |    |    |    |    |     |     | .32 |     |     |     | T.  |     |     |     |    |    | 2.12  |
| Mount Lebanon..... | Ohio.....         | .50          |     |     |     |     | .04  | .04  |   |      |    |    |     |      | .03  |     |    |    |    |    |     |     | .13 | .17 |     |     | T.  | .27 |     |     |    |    | 1.18  |
| New Castle\|\|\| | Beaver.....       | .04          | .02 |     |     |     | .02  | .14  |   |      |    |    |     | .47  | .43  | .01 |    |    |    |    |     |     | .10 | .27 |     |     |     | .50 |     |     |    |    | 2.00  |
| Newell.....        | Monongahela.....  | .10          |     |     |     |     | .02  | .19  |   | .10  |    |    |     |      | .11  |     |    |    |    |    |     |     | .40 |     |     |     |     | .24 | .06 |     |    |    | 1.22  |
| Parkers Landing\|\|\| | Allegheny.....    | T.           | .10 |     |     | T.  | T.   | .05  |   |      |    |    |     | .13  | .32  |     |    |    |    |    |     |     | T.  | .25 |     |     |     | T.  |     |     |    |    | 0.85  |
| Pennline\|\|\| | Beaver.....       | .39          | .05 |     |     | .02 |      | .04  |   |      |    |    |     | .09  | 1.86 |     |    |    |    |    |     |     | .25 | .06 |     |     |     |     |     |     |    |    | 2.76  |
| Pittsburgh***      | Ohio.....         | .27          |     |     |     | T.  | .68  |      |   |      |    |    |     | .08  |      |     |    |    |    |    |     | .01 | .22 |     |     |     | .07 |     |     |     |    |    | 1.33  |
| Ridgway.....       | Allegheny.....    | .43          | .01 |     |     |     | .03  | .48  |   | T.   |    |    |     | .02  | .09  |     |    |    |    |    |     |     | .04 | .68 |     |     |     |     |     |     |    |    | 1.78  |
| Saltsburg\|\|\| | Conemaugh.....    | .06          | .09 |     |     |     | .02  | .98  |   |      |    |    |     | T.   | .40  | .98 |    |    |    |    |     |     | T.  | .13 |     |     |     |     | .33 |     |    |    | 2.01  |
| Sharon\|\|\| | Beaver.....       | .27          |     |     |     |     | 1.16 |      |   |      |    |    |     |      | .87  |     |    |    |    |    |     |     | .02 | .08 |     |     |     |     | .08 |     |    |    | 2.48  |
| Somerset.....      | Youghiogheny..... | T.           | .14 |     |     |     | .02  | T.   |   |      |    |    |     | .12  | .34  |     |    |    |    |    |     |     | .14 |     |     |     | .51 |     |     |     |    |    | 1.27  |
| Springdale\|\|\| | Allegheny.....    | .01          | .19 |     |     |     | .07  | .14  |   |      |    |    |     | .15  | .36  |     |    |    |    |    |     |     | .02 | .21 |     |     |     | .13 |     |     |    |    | 1.28  |
| Uniontown.....     | Monongahela.....  | .12          | .01 |     |     |     | .12  | .45  |   | .07  |    |    |     | .65  | .32  |     |    |    |    |    |     |     | .26 | .24 |     |     | T.  | .17 | .10 |     |    |    | 2.51  |
| Unity Reservoir\|\|\| | Youghiogheny..... | .25          |     |     |     |     | .13  | .47  |   |      |    |    |     | .10  |      |     |    |    |    |    |     |     | .15 |     |     |     | T.  | .12 |     |     |    |    | 1.22  |
| Vandergrift.....   | Conemaugh.....    | .28          |     |     |     |     | .31  |      |   |      |    |    |     | .31  |      |     |    |    |    |    |     |     | .34 |     |     |     |     |     |     |     |    |    | 1.17  |
| Warren.....        | Allegheny.....    |              |     |     |     |     | .05  |      |   |      |    |    |     | .60  | .22  |     |    |    |    |    |     |     | .23 |     |     |     |     |     |     |     |    |    | 1.10  |
| Westford\|\|\| | Beaver.....       | .50          |     |     | .24 |     | .18  |      |   |      |    |    | .48 | 1.49 |      |     |    |    |    |    |     |     | .30 |     |     |     |     |     |     |     |    |    | 3.19  |
| West Newton\|\|\| | Youghiogheny..... | .13          | .02 |     |     |     | T.   | .18  |   | .13  |    |    |     | T.   | .04  |     |    |    |    |    |     |     | .04 | .06 |     |     |     | .34 |     |     |    |    | 0.94  |
| Zellenople.....    | Ohio.....         |              |     |     |     |     |      |      |   |      |    |    |     |      |      |     |    |    |    |    |     |     | .84 | .36 |     |     |     |     |     | .24 |    |    | 1.44  |
| Lake Drainage.     |                   |              |     |     |     |     |      |      |   |      |    |    |     |      |      |     |    |    |    |    |     |     |     |     |     |     |     |     |     |     |    |    |       |
| Erie***            | Lake Erie.....    | T.           |     |     |     | T.  | .16  |      |   |      |    |    |     | .16  | T.   |     |    |    |    |    |     | T.  |     | .36 | .15 |     |     | T.  | T.  |     |    |    | 0.88  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah. ‡ Mdt. to mdt.



Daily Temperatures for July, 1930

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24  | 25 | 26  | 27  | 28  | 29  | 30  | 31   | Mean |      |      |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Allentown.....    | Maximum | 79 | 81 | 77 | 78 | 82 | 86 | 86 | 82 | 86 | 80 | 84 | 77 | 82 | 75 | 84 | 83 | 89 | 85 | 99  | 94  | 101 | 93  | 87  | 88 | 92  | 93  | 91  | 73  | 89  | 83   | 84   | 85.3 |      |      |
|                   | Minimum | 74 | 63 | 62 | 54 | 54 | 54 | 64 | 61 | 62 | 61 | 59 | 60 | 55 | 61 | 51 | 51 | 55 | 60 | 67  | 73  | 70  | 73  | 65  | 68 | 67  | 67  | 70  | 66  | 69  | 62   | 62   | 62.6 |      |      |
| Altoona.....      | Maximum | 81 | 75 | 75 | 79 | 88 | 84 | 82 | 81 | 91 | 82 | 87 | 82 | 80 | 77 | 76 | 86 | 83 | 93 | 98  | 96  | 93  | 87  | 88  | 89 | 95  | 99  | 93  | 96  | 92  | 85   | 86   | 86.4 |      |      |
|                   | Minimum | 65 | 57 | 52 | 45 | 52 | 60 | 58 | 52 | 54 | 58 | 55 | 50 | 53 | 59 | 41 | 45 | 53 | 57 | 66  | 74  | 71  | 67  | 64  | 58 | 62  | 62  | 71  | 65  | 67  | 49   | 56   | 58.0 |      |      |
| Beaver Dam.....   | Maximum | 89 | 72 | 72 | 80 | 86 | 85 | 85 | 82 | 90 | 83 | 85 | 83 | 85 | 85 | 77 | 86 | 93 | 94 | 98  | 98  | 94  | 94  | 86  | 91 | 94  | 94  | 84  | 95  | 85  | 85   | 85   | 86.9 |      |      |
|                   | Minimum | 65 | 56 | 50 | 49 | 59 | 63 | 62 | 55 | 57 | 60 | 55 | 53 | 62 | 60 | 48 | 50 | 51 | 57 | 62  | 72  | 68  | 70  | 64  | 61 | 61  | 62  | 68  | 68  | 65  | 53   | 56   | 59.4 |      |      |
| Bellefonte.....   | Maximum | 79 | 76 | 74 | 76 | 85 | 82 | 80 | 81 | 86 | 79 | 84 | 80 | 79 | 73 | 75 | 81 | 87 | 91 | 94  | 94  | 96  | 84  | 86  | 89 | 93  | 97  | 93  | 95  | 92  | 84   | 84   | 84.8 |      |      |
|                   | Minimum | 65 | 56 | 50 | 49 | 59 | 63 | 62 | 55 | 57 | 60 | 55 | 53 | 62 | 60 | 48 | 50 | 51 | 57 | 62  | 72  | 68  | 70  | 64  | 61 | 61  | 62  | 68  | 68  | 65  | 53   | 56   | 59.4 |      |      |
| Brookville.....   | Maximum | 81 | 73 | 74 | 77 | 85 | 81 | 79 | 81 | 87 | 82 | 84 | 88 | 86 | 70 | 76 | 89 | 88 | 90 | 93  | 95  | 99  | 78  | 87  | 89 | 93  | 97  | 93  | 95  | 92  | 84   | 84   | 85.3 |      |      |
|                   | Minimum | 59 | 56 | 53 | 46 | 54 | 60 | 55 | 54 | 54 | 54 | 51 | 52 | 56 | 48 | 40 | 43 | 47 | 54 | 60  | 65  | 64  | 67  | 61  | 58 | 56  | 56  | 56  | 56  | 56  | 56   | 56   | 56.3 |      |      |
| Butler.....       | Maximum | 81 | 73 | 74 | 77 | 85 | 81 | 79 | 81 | 87 | 82 | 84 | 88 | 86 | 70 | 76 | 89 | 88 | 90 | 93  | 95  | 99  | 78  | 87  | 89 | 93  | 97  | 93  | 95  | 92  | 84   | 84   | 85.3 |      |      |
|                   | Minimum | 58 | 48 | 44 | 42 | 52 | 61 | 48 | 43 | 48 | 50 | 47 | 44 | 51 | 42 | 37 | 39 | 43 | 47 | 54  | 60  | 61  | 58  | 53  | 55 | 54  | 57  | 43  | 43  | 45  | 49.2 | 49.2 | 49.2 |      |      |
| Carlisle.....     | Maximum | 93 | 87 | 80 | 85 | 80 | 79 | 78 | 87 | 86 | 95 | 90 | 91 | 90 | 89 | 85 | 85 | 91 | 93 | 97  | 102 | 101 | 105 | 100 | 97 | 97  | 103 | 103 | 101 | 100 | 105  | 102  | 94   | 93.9 |      |
|                   | Minimum | 65 | 56 | 50 | 56 | 50 | 54 | 60 | 48 | 52 | 59 | 51 | 48 | 50 | 58 | 41 | 42 | 45 | 50 | 60  | 63  | 68  | 68  | 74  | 63 | 66  | 58  | 62  | 77  | 64  | 73   | 56   | 55   | 58.4 |      |
| Catawissa.....    | Maximum | 87 | 84 | 82 | 83 | 89 | 85 | 86 | 89 | 87 | 87 | 85 | 86 | 87 | 86 | 88 | 92 | 95 | 97 | 97  | 100 | 88  | 91  | 92  | 97 | 98  | 100 | 95  | 98  | 100 | 95   | 98   | 91   | 90.0 |      |
|                   | Minimum | 68 | 61 | 58 | 53 | 54 | 70 | 57 | 61 | 58 | 58 | 56 | 57 | 54 | 65 | 47 | 45 | 50 | 60 | 63  | 68  | 68  | 74  | 63  | 66 | 58  | 62  | 77  | 64  | 73  | 56   | 55   | 58.4 |      |      |
| Chambersburg..... | Maximum | 89 | 81 | 78 | 84 | 87 | 87 | 88 | 85 | 91 | 87 | 92 | 87 | 85 | 82 | 81 | 83 | 80 | 84 | 88  | 90  | 94  | 95  | 99  | 97 | 86  | 89  | 98  | 96  | 93  | 97   | 95   | 85   | 85   | 88.4 |
|                   | Minimum | 68 | 59 | 54 | 49 | 56 | 66 | 59 | 59 | 56 | 61 | 52 | 59 | 53 | 65 | 46 | 46 | 53 | 62 | 65  | 75  | 69  | 73  | 67  | 65 | 58  | 63  | 80  | 63  | 73  | 63   | 54   | 61.0 |      |      |
| Claysville.....   | Maximum | 82 | 74 | 78 | 84 | 90 | 87 | 87 | 85 | 93 | 88 | 93 | 87 | 87 | 76 | 80 | 90 | 96 | 97 | 98  | 103 | 100 | 94  | 92  | 94 | 100 | 100 | 93  | 103 | 101 | 91   | 90   | 90.7 |      |      |
|                   | Minimum | 65 | 56 | 44 | 41 | 54 | 63 | 59 | 50 | 53 | 63 | 51 | 48 | 65 | 59 | 38 | 43 | 47 | 60 | 68  | 76  | 77  | 69  | 64  | 61 | 61  | 59  | 67  | 65  | 67  | 48   | 52   | 57.8 |      |      |
| Clearfield.....   | Maximum | 90 | 78 | 82 | 84 | 90 | 85 | 84 | 87 | 91 | 89 | 89 | 87 | 89 | 80 | 83 | 90 | 95 | 97 | 98  | 100 | 102 | 93  | 90  | 93 | 98  | 98  | 99  | 101 | 95  | 90   | 90.9 |      |      |      |
|                   | Minimum | 62 | 56 | 49 | 45 | 53 | 60 | 58 | 47 | 51 | 55 | 50 | 48 | 51 | 58 | 42 | 42 | 44 | 52 | 57  | 62  | 64  | 65  | 60  | 53 | 57  | 55  | 68  | 58  | 64  | 46   | 54   | 55.0 |      |      |
| Coatesville.....  | Maximum | 88 | 82 | 78 | 78 | 81 | 88 | 85 | 81 | 88 | 81 | 86 | 81 | 84 | 76 | 79 | 84 | 88 | 89 | 99  | 102 | 94  | 89  | 89  | 94 | 97  | 94  | 86  | 93  | 86  | 88   | 87.3 |      |      |      |
|                   | Minimum | 68 | 62 | 62 | 56 | 53 | 64 | 65 | 60 | 62 | 61 | 59 | 63 | 54 | 65 | 54 | 49 | 55 | 62 | 72  | 69  | 73  | 73  | 67  | 69 | 64  | 67  | 75  | 65  | 73  | 66   | 55   | 63.3 |      |      |
| Corry.....        | Maximum | 86 | 82 | 72 | 78 | 85 | 83 | 79 | 83 | 90 | 84 | 82 | 82 | 82 | 71 | 76 | 84 | 90 | 94 | 98  | 95  | 98  | 83  | 84  | 88 | 93  | 97  | 93  | 97  | 93  | 90   | 84   | 82   | 85.5 |      |
|                   | Minimum | 61 | 50 | 43 | 40 | 55 | 63 | 60 | 45 | 52 | 52 | 50 | 50 | 59 | 55 | 38 | 42 | 42 | 47 | 57  | 64  | 63  | 68  | 64  | 54 | 55  | 58  | 60  | 66  | 57  | 58   | 45   | 47   | 53.7 |      |
| Emporium.....     | Maximum | 84 | 70 | 71 | 74 | 82 | 78 | 79 | 79 | 84 | 78 | 81 | 78 | 85 | 73 | 73 | 81 | 86 | 90 | 92  | 95  | 78  | 82  | 85  | 88 | 92  | 90  | 91  | 91  | 79  | 40   | 82.5 | 82.5 |      |      |
|                   | Minimum | 79 | 72 | 71 | 74 | 82 | 78 | 79 | 79 | 84 | 78 | 81 | 78 | 85 | 73 | 73 | 81 | 86 | 90 | 92  | 95  | 78  | 82  | 85  | 88 | 92  | 90  | 91  | 91  | 79  | 40   | 82.5 | 82.5 |      |      |
| Erie.....         | Maximum | 83 | 72 | 77 | 83 | 85 | 86 | 79 | 78 | 76 | 80 | 73 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77  | 77  | 77  | 77  | 77  | 77 | 77  | 77  | 77  | 77  | 77  | 77   | 77   | 77   | 77   |      |
|                   | Minimum | 60 | 57 | 55 | 53 | 61 | 67 | 64 | 58 | 66 | 61 | 63 | 60 | 63 | 59 | 51 | 57 | 64 | 71 | 77  | 71  | 71  | 66  | 63  | 66 | 71  | 72  | 72  | 70  | 66  | 60   | 62   | 63.9 |      |      |
| Franklin.....     | Maximum | 83 | 72 | 77 | 83 | 85 | 86 | 79 | 78 | 76 | 80 | 73 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77  | 77  | 77  | 77  | 77  | 77 | 77  | 77  | 77  | 77  | 77  | 77   | 77   | 77   | 77   |      |
|                   | Minimum | 63 | 57 | 47 | 48 | 53 | 59 | 58 | 50 | 45 | 46 | 44 | 49 | 49 | 49 | 40 | 45 | 45 | 52 | 60  | 64  | 66  | 67  | 60  | 56 | 57  | 59  | 65  | 60  | 62  | 48   | 50   | 54.0 |      |      |
| Freeland.....     | Maximum | 79 | 75 | 72 | 71 | 76 | 79 | 78 | 76 | 80 | 73 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77  | 77  | 77  | 77  | 77  | 77 | 77  | 77  | 77  | 77  | 77  | 77   | 77   | 77   | 77   |      |
|                   | Minimum | 65 | 58 | 52 | 48 | 56 | 65 | 60 | 54 | 60 | 55 | 58 | 53 | 57 | 57 | 46 | 53 | 60 | 63 | 71  | 68  | 72  | 67  | 62  | 63 | 63  | 67  | 70  | 65  | 66  | 56   | 58   | 60.3 |      |      |
| Gettysburg.....   | Maximum | 87 | 78 | 77 | 80 | 86 | 86 | 86 | 84 | 91 | 82 | 90 | 87 | 86 | 84 | 81 | 87 | 89 | 92 | 101 | 96  | 101 | 98  | 92  | 95 | 100 | 99  | 98  | 98  | 96  | 100  | 98   | 90.1 | 90.1 |      |
|                   | Minimum | 70 | 61 | 59 | 54 | 58 | 71 | 63 | 61 | 62 | 56 | 61 | 56 | 67 | 52 | 49 | 56 | 65 | 61 | 65  | 61  | 30  | 76  | 80  | 68 | 68  | 62  | 67  | 81  | 71  | 75   | 63   | 68   | 64.6 |      |
| Greensburg.....   | Maximum | 81 | 74 | 74 | 84 | 89 | 88 | 83 | 81 | 89 | 86 | 85 | 82 | 81 | 60 | 45 | 57 | 50 | 59 | 67  | 72  | 75  | 69  | 66  | 63 | 62  | 63  | 68  | 67  | 70  | 58   | 58   | 60.5 |      |      |
|                   | Minimum | 64 | 59 | 51 | 46 | 58 | 64 | 66 | 53 | 56 | 55 | 65 | 52 | 54 | 73 | 81 | 88 | 92 | 92 | 94  | 97  | 92  | 83  | 85  | 91 | 95  | 90  | 92  | 89  | 83  | 80   | 84.0 | 84.0 |      |      |
| Grove City.....   | Maximum | 79 | 69 | 70 | 75 | 84 | 83 | 77 | 79 | 87 | 82 | 83 | 79 | 88 | 74 | 73 | 81 | 88 | 92 | 92  | 94  | 97  | 92  | 83  | 85 | 91  | 95  | 90  | 92  | 89  | 83   | 80   | 84.0 |      |      |
|                   | Minimum | 65 | 55 | 45 | 47 | 58 | 65 | 58 | 51 | 53 | 58 | 53 | 48 | 63 | 56 | 41 | 54 | 50 | 56 | 64  | 70  | 70  | 55  | 44  | 45 | 46  | 49  | 51  | 61  | 63  | 49   | 52   | 54.7 |      |      |
| Hamburg.....      | Maximum | 83 | 85 | 83 | 81 | 81 | 86 | 84 | 84 | 87 | 88 | 85 | 85 | 83 | 80 | 81 | 86 | 90 | 99 | 96  | 100 | 99  | 89  | 86  | 96 | 98  | 98  | 98  | 98  | 98  | 98   | 98   | 98   | 98.5 |      |
|                   | Minimum | 66 | 60 | 58 | 49 | 51 | 59 | 60 | 62 | 58 | 57 | 52 | 57 | 54 | 58 | 47 | 46 | 51 | 56 | 66  | 67  | 66  | 70  | 63  | 64 | 59  | 61  | 66  | 61  | 64  | 63   | 59   | 59.0 |      |      |
| Harrisburg.....   | Maximum | 83 | 81 | 77 | 77 | 84 | 86 | 84 | 82 | 90 | 80 | 89 | 82 | 85 | 76 | 77 | 86 | 88 | 90 | 98  | 98  | 98  | 98  | 98  | 98 | 98  | 98  | 98  | 98  | 98  | 98   | 98   | 98   | 98.5 |      |
|                   | Minimum | 69 | 66 | 62 | 60 | 67 | 65 | 66 | 65 | 64 | 62 | 64 | 62 | 62 | 57 | 55 | 61 | 69 | 74 | 74  | 74  | 73  | 69  | 71  | 66 | 70  | 76  | 70  | 73  | 69  | 65   | 66.5 | 66.5 |      |      |
| Hawley.....       | Maximum | 86 | 80 | 77 | 77 | 81 | 84 | 82 | 79 | 84 | 80 | 80 | 79 | 77 | 76 | 79 | 84 | 90 | 92 | 93  | 91  | 96  | 95  | 84  | 83 | 88  | 93  | 87  | 83  | 89  | 85   | 82   | 84.4 | 84.4 |      |
|                   | Minimum | 64 | 56 | 52 | 45 | 44 | 65 | 55 | 51 | 54 | 54 | 50 | 53 | 47 | 52 | 44 | 41 | 46 | 52 | 60  | 62  | 61  | 64  | 59  | 55 | 52  | 55  | 66  | 57  | 64  | 51   | 48   | 54.2 | 54.2 |      |
| Huntingdon.....   | Maximum | 82 | 78 | 78 | 81 | 89 | 88 | 84 | 84 | 89 | 82 | 89 | 83 | 82 | 76 | 79 | 87 | 91 | 95 | 97  | 98  | 99  | 91  | 91  | 92 | 97  | 101 | 97  | 100 | 96  | 88   | 88   | 88.8 | 88.8 |      |
|                   | Minimum | 55 | 55 | 45 | 45 | 52 | 63 | 60 | 53 | 60 | 53 | 60 | 54 | 50 | 43 | 42 | 46 | 55 | 55 | 55  | 55  | 55  | 55  | 55  | 55 | 55  | 55  | 55  | 55  | 55  | 55   | 55   | 55   | 55.0 | 55.0 |
| Johnstown.....    | Maximum | 82 | 76 | 78 | 84 | 89 | 89 | 83 | 84 | 91 | 86 | 89 | 85 | 83 | 76 | 83 | 90 | 91 | 96 | 98  | 101 | 100 | 90  |     |    |     |     |     |     |     |      |      |      |      |      |







SEP 29 1930

UNIVERSITY OF ILLINOIS

# CLIMATOLOGICAL DATA.

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. AUGUST, 1930. No. 8

### GENERAL SUMMARY.

This was the driest August during the last 43 years, and followed upon drought conditions that were becoming serious in a large portion of the State at the close of July. The rainfall was less than one inch in fully one-half of the State, comprising most of the central and about one-half of the western counties. There was almost no rain until the 15th when a three days period of light to moderate showers served to check the progress of the drought, but was not enough to effectively break it. During the remainder of the month the rains were mostly light and scattered, and the drought again increased in severity. The most favored region was comprised in the Delaware drainage basin. High temperatures during the first ten days and during the last week helped to make the drought more severe. The middle of the month was unseasonably cool with frosts and freezing in some places. Pastures and meadows dried up and many turned brown early in the month. The second cutting of hay was extremely light, and in many districts it was not worth harvesting. Corn was badly stunted, and a large portion of the crop failed to develop ears, while its value as a fodder crop was greatly reduced. Late potatoes developed prematurely in about three-fourths of the State, and were a very light crop. They were a fair crop at most places in the Delaware basin. Truck crops were stunted and the quality was seriously affected, but the supply seemed to be enough to meet the demands. Tobacco deteriorated from an unusually promising crop early in the season to one of the poorest in recent years. The water supply was low. Small streams and shallow wells became dry, and storage reservoirs were the lowest for many years. Fall plowing made very slow progress, and was almost impossible in some sections.

### TEMPERATURE.

The mean temperature for the State, as deduced from reports of 88 stations, was 70.3°, which is 0.3° above the normal August temperature. The highest monthly mean was 76.6° at Holtwood and the lowest was 63.3° at Gouldsboro and Somerset. The highest temperature recorded during the month was 108°, at Carlisle on the 4th, and the lowest was 29°, at Somerset on the 12th. The greatest daily range of temperature was 56°, at Hyndman on the 3d.

### PRECIPITATION.

The average precipitation for the State, as shown by observations taken at 133 stations, was 1.47 inches, a deficiency of 2.76 inches as compared with the monthly normal. The greatest monthly amount was 4.12 inches, at Kregar, while the least amount was 0.29 inch at Sunbury. The greatest amount recorded in any 24 consecutive hours was 1.96 inches at Pleasant Mount on the 23d.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 302.8                   | 428.7                    | 71                     | 63               | 56       | 61      | 6,926                    | 9.3                         | 32        | sw.       |
| Harrisburg.....   | 310.7                   | 425.1                    | 73                     | 66               | 42       | 45      | 3,458                    | 4.6                         | 18        | sw.       |
| Philadelphia..... | 270.5                   | 425.1                    | 64                     | 71               | 46       | 55      | 7,655                    | 10.3                        | 35        | ne.       |
| Pittsburgh.....   | 205.3                   | 426.9                    | 49                     | 72               | 47       | 46      | 4,286                    | 5.8                         | 24        | w.        |
| Reading.....      | 265.8                   | 425.1                    | 63                     | 70               | 45       | 52      | 3,148                    | 4.2                         | 17        | nw.       |
| Scranton.....     | 342.0                   | 426.9                    | 80                     | 72               | 43       | 53      | 3,522                    | 4.7                         | 24        | ne.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR AUGUST

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 69.8        | 100     | 33     | 7.05          | 11.27    | 3.18  | .....       | .....         | .....  | .....                  |
| 1889..... | 67.4        | 100     | 37     | 3.24          | 7.07     | 0.83  | .....       | .....         | .....  | .....                  |
| 1890..... | 68.8        | 98      | 34     | 5.76          | 9.65     | 2.58  | 9           | 14            | 8      | 12                     |
| 1891..... | 69.6        | 99      | 35     | 5.09          | 11.77    | 1.43  | 8           | 12            | 10     | 12                     |
| 1892..... | 71.4        | 99      | 42     | 3.77          | 7.64     | 1.07  | 14          | 7             | 11     | 9                      |
| 1893..... | 70.4        | 99      | 30     | 4.50          | 9.99     | 1.68  | 14          | 10            | 6      | 8                      |
| 1894..... | 69.4        | 98      | 32     | 1.84          | 5.51     | 0.17  | 13          | 12            | 6      | 6                      |
| 1895..... | 72.3        | 101     | 32     | 3.23          | 6.03     | 0.59  | 15          | 11            | 5      | 8                      |
| 1896..... | 71.2        | 101     | 35     | 2.22          | 6.53     | 0.45  | 14          | 11            | 6      | 9                      |
| 1897..... | 67.9        | 97      | 34     | 3.17          | 8.60     | 0.34  | 14          | 11            | 6      | 12                     |
| 1898..... | 72.3        | 99      | 37     | 6.60          | 11.32    | 3.72  | 11          | 11            | 7      | 7                      |
| 1899..... | 71.2        | 101     | 38     | 4.01          | 10.09    | 0.07  | 14          | 10            | 5      | 9                      |
| 1900..... | 75.0        | 103     | 38     | 3.33          | 5.78     | 0.84  | 14          | 12            | 5      | 9                      |
| 1901..... | 72.0        | 99      | 42     | 6.81          | 13.65    | 2.48  | 10          | 12            | 9      | 11                     |
| 1902..... | 67.8        | 100     | 34     | 2.62          | 6.44     | 0.51  | 13          | 13            | 5      | 8                      |
| 1903..... | 67.2        | 99      | 36     | 5.29          | 8.05     | 2.00  | 9           | 12            | 10     | 14                     |
| 1904..... | 68.0        | 96      | 34     | 4.36          | 9.64     | 1.66  | 15          | 10            | 6      | 9                      |
| 1905..... | 69.6        | 95      | 36     | 5.71          | 10.83    | 1.92  | 12          | 12            | 7      | 12                     |
| 1906..... | 73.2        | 96      | 39     | 5.62          | 11.65    | 1.62  | 10          | 12            | 9      | 12                     |
| 1907..... | 68.0        | 97      | 32     | 2.94          | 6.19     | 0.77  | 16          | 9             | 9      | 10                     |
| 1908..... | 69.4        | 102     | 30     | 3.22          | 8.06     | 1.22  | 15          | 10            | 6      | 7                      |
| 1909..... | 69.4        | 100     | 34     | 2.31          | 7.76     | 0.12  | 16          | 9             | 6      | 7                      |
| 1910..... | 69.8        | 98      | 35     | 2.61          | 6.46     | 0.55  | 14          | 10            | 7      | 6                      |
| 1911..... | 71.4        | 102     | 36     | 7.63          | 15.14    | 2.60  | 11          | 8             | 12     | 13                     |
| 1912..... | 67.1        | 93      | 36     | 5.02          | 9.65     | 1.68  | 9           | 12            | 10     | 14                     |
| 1913..... | 70.4        | 102     | 38     | 2.69          | 10.93    | 0.70  | 17          | 9             | 5      | 8                      |
| 1914..... | 71.3        | 100     | 34     | 3.85          | 7.20     | 0.64  | 13          | 11            | 7      | 11                     |
| 1915..... | 68.0        | 99      | 34     | 6.71          | 14.44    | 1.92  | 10          | 11            | 10     | 15                     |
| 1916..... | 71.9        | 103     | 32     | 2.57          | 7.08     | 0.21  | 17          | 10            | 4      | 8                      |
| 1917..... | 71.2        | 101     | 38     | 6.69          | 17.50    | 1.06  | 15          | 10            | 6      | 10                     |
| 1918..... | 73.6        | 108     | 32     | 4.12          | 8.02     | 1.05  | 16          | 10            | 5      | 11                     |
| 1919..... | 68.2        | 94      | 35     | 5.43          | 12.03    | 2.35  | 13          | 10            | 8      | 12                     |
| 1920..... | 70.2        | 95      | 37     | 4.66          | 9.29     | 1.93  | 9           | 12            | 10     | 15                     |
| 1921..... | 68.4        | 97      | 35     | 3.83          | 6.68     | 1.81  | 17          | 8             | 6      | 9                      |
| 1922..... | 69.1        | 100     | 31     | 3.14          | 8.16     | 1.15  | 15          | 9             | 7      | 10                     |
| 1923..... | 69.2        | 96      | 30     | 3.10          | 7.30     | 0.59  | 15          | 11            | 5      | 9                      |
| 1924..... | 70.1        | 102     | 31     | 3.78          | 7.54     | 1.48  | 16          | 10            | 5      | 9                      |
| 1925..... | 69.7        | 97      | 26     | 2.28          | 5.14     | 0.65  | 18          | 9             | 4      | 7                      |
| 1926..... | 71.9        | 103     | 32     | 5.69          | 10.04    | 2.95  | 11          | 8             | 12     | 15                     |
| 1927..... | 65.5        | 92      | 34     | 4.12          | 11.49    | 1.13  | 12          | 10            | 9      | 12                     |
| 1928..... | 73.4        | 99      | 35     | 4.60          | 10.87    | 1.32  | 13          | 11            | 7      | 12                     |
| 1929..... | 67.7        | 98      | 31     | 2.52          | 7.20     | 0.20  | 17          | 8             | 6      | 7                      |
| 1930..... | 70.3        | 108     | 29     | 1.47          | 4.12     | 0.29  | 15          | 10            | 6      | 7                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 1.9        | 2.7           | 24   | 1.3          | 4    | 18          |
| Phillipsburg..... | Delaware.....     | 0.5        | 1.5           | 25   | 0.1          | 7    | 22          |
| Mauch Chunk.....  | Lehigh.....       | 1.2        | 1.4           | 17   | 1.1          | 1    | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 1.2        | 1.6           | 1    | 1.0          | 15   | 20          |
| Williamsport..... | Susquehanna.....  | -0.1       | -0.1          | 1    | -0.2         | 11   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.0        | 3.1           | 1    | 3.0          | 6    | 17          |
| Greensboro.....   | Monongahela.....  | 9.2        | 10.1          | 5    | 8.1          | 31   | 30          |
| West Newton.....  | Youghiogheny..... | 0.0        | 0.2           | 19   | -0.2         | 7    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.5       | 12.5          | 1    | 12.4         | 5    | 31          |
| Pittsburgh.....   | Ohio.....         | 9.4        | 9.5           | 20   | 9.4          | 1    | 25          |
| Beaver Dam.....   | Ohio.....         | 7.4        | 7.5           | 17   | 7.1          | 5    | 30          |



## Climatological Data for August, 1930

| Stations            | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Observers |        |                              |
|---------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|-----------|--------|------------------------------|
|                     |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |           | Cloudy | Prevailing direction of wind |
| Atlantic Drainage.  |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |           |        |                              |
| Allentown           | Lehigh       | 254             | 19                      | 71.2                         | .....                     | 98      | 4     | 45     | 13    | 35                       | 1.71  | -2.64                     | 0.58                 | 0                         | 5                            | 23    | 6          | 2         | s.     | John A. Frick.               |
| Altoona             | Blair        | 1,615           | 43                      | 69.6                         | 0.0                       | 102     | 4     | 40     | 12    | 40                       | 1.62  | -1.77                     | 0.64                 | 0                         | 7                            | 22    | 7          | 2         | w.     | F. E. Rooney.                |
| Arendtsville        | Adams        | 700             | 6                       | 75.9                         | .....                     | 106     | 4     | 45     | 12    | 44                       | 0.92  | .....                     | 0.027                | 0                         | 5                            | 14    | 9          | 8         | nw.    | Dr. S. W. Frost.             |
| Bellefonte          | Center       | 1,050           | 25                      | 68.1                         | .....                     | 100     | 4     | 37     | 12    | 43                       | 0.36  | -3.88                     | 0.19                 | 0                         | 4                            | 9     | 11         | 11        | sw.    | U. S. Weather Bureau.        |
| Bethlehem           | Northampton  | 364             | 44                      | 73.7                         | 0.0                       | 98      | 37    | 48     | 13    | 32                       | 1.27  | -3.05                     | 0.65                 | 0                         | 4                            | 20    | 6          | 5         | nw.    | Lehigh University.           |
| Carlisle            | Cumberland   | 467             | 64                      | 74.3                         | +1.6                      | 108     | 4     | 38     | 13    | 50                       | 1.03  | -3.93                     | 0.40                 | 0                         | 8                            | 20    | 6          | 5         | nw.    | Prof. C. E. Miller.          |
| Catawissa           | Columbia     | 520             | 34                      | 70.9                         | +0.6                      | 105     | 4     | 38     | 13    | 49                       | 0.59  | -3.53                     | 0.26                 | 0                         | 4                            | 14    | 12         | 5         | .....  | W. L. Gearhart.              |
| Center Hall         | Center       | 1,272           | 34                      | 67.7                         | -1.5                      | 100     | 3     | 39     | 13    | 47                       | 1.78  | -2.18                     | 0.52                 | 0                         | 5                            | 20    | 7          | 4         | .....  | S. W. Smith.                 |
| Chambersburg        | Franklin     | 580             | 31                      | 69.1                         | -3.1                      | 105     | 4     | 45     | 12    | 43                       | 0.93  | -3.31                     | 0.51                 | 0                         | 5                            | 12    | 12         | 7         | sw.    | William B. Spear.            |
| Clearfield          | Clearfield   | 1,120           | 21                      | 69.8                         | -0.1                      | 103     | 4     | 35     | 12    | 53                       | 0.81  | -4.33                     | 0.20                 | 0                         | 7                            | 16    | 12         | 3         | w.     | E. W. Hess.                  |
| Coatesville         | Chester      | 380             | 43                      | 72.0                         | +2.3                      | 99      | 5     | 43     | 13    | 39                       | 1.87  | -2.56                     | 1.05                 | 0                         | 7                            | 13    | 12         | 6         | s.     | Prof. W. T. Gordon.          |
| Colebrook           | Lebanon      | 560             | 21                      | 70.8                         | +0.2                      | 102     | 4     | 43     | 13    | 38                       | 1.78  | -3.06                     | 0.81                 | 0                         | 7                            | 20    | 7          | 4         | sw.    | Wm. A. Rorer.                |
| Emporium            | Cameron      | 1,050           | 43                      | 66.3                         | -1.6                      | 94      | 4     | 34     | 13    | 46                       | 0.68  | -3.39                     | 0.31                 | 0                         | 6                            | 15    | 11         | 5         | w.     | T. B. Lloyd.                 |
| Ephrata             | Lancaster    | 380             | 30                      | 72.4                         | +0.6                      | 99      | 4     | 45     | 13    | 35                       | 1.65  | -3.25                     | 0.64                 | 0                         | 8                            | 19    | 8          | 4         | w.     | Ira J. Keath.                |
| Freeland            | Luzerne      | 1,970           | 15                      | 69.2                         | +2.9                      | 96      | 4     | 45     | 12    | 30                       | 1.31  | -3.80                     | 0.76                 | 0                         | 7                            | 8     | 14         | 9         | nw.    | Theo. Reichmann.             |
| George School       | Bucks        | 190             | 24                      | 72.3                         | +0.9                      | 98      | 5     | 48     | 12    | 35                       | 3.16  | -1.44                     | 1.46                 | 0                         | 7                            | 21    | 6          | 4         | s.     | Prof. N. W. Swayne           |
| Gettysburg          | Adams        | 553             | 57                      | 74.0                         | +2.3                      | 103     | 4     | 48     | 13    | 36                       | 1.03  | -3.04                     | 0.33                 | 0                         | 7                            | 18    | 7          | 6         | nw.    | Dr. Henry Stewart            |
| Gordon              | Schuylkill   | 840             | 27                      | 69.1                         | +0.9                      | 101     | 4     | 36     | 13    | 47                       | 1.48  | -3.29                     | 0.80                 | 0                         | 8                            | 17    | 9          | 5         | n.     | Capt. J. G. Johnson          |
| Gouldsboro          | Wayne        | 1,875           | 16                      | 63.3                         | .....                     | 93      | 4     | 32     | 13    | 45                       | 2.82  | -2.86                     | 1.69                 | 0                         | 8                            | 19    | 8          | 4         | w.     | Gustav Holtz.                |
| Hamburg             | Berks        | 535             | 37                      | 71.2                         | -0.5                      | 99      | 4     | 40     | 13    | 43                       | 2.65  | -2.71                     | 1.72                 | 0                         | 5                            | 19    | 9          | 3         | w.     | State Sanatorium.            |
| Hanover             | York         | 600             | 27                      | 75.6                         | +2.0                      | 102     | 47    | 50     | 13    | 34                       | 0.87  | -3.91                     | 0.25                 | 0                         | 9                            | 21    | 6          | 4         | s.     | Thomas Y. Cooper.            |
| Harrisburg          | Dauphin      | 361             | 61                      | 74.0                         | +1.4                      | 103     | 4     | 50     | 13    | 32                       | 1.21  | -2.83                     | 0.66                 | 0                         | 6                            | 10    | 16         | 5         | nw.    | U. S. Weather Bureau.        |
| Hawley              | Wayne        | 900             | 12                      | 67.8                         | .....                     | 98      | 4     | 34     | 13    | 46                       | 3.96  | .....                     | 1.61                 | 0                         | 6                            | 20    | 9          | 2         | w.     | Mrs. Della M. Pennell.       |
| Holtwood            | Lancaster    | 200             | 15                      | 76.6                         | .....                     | 102     | 9     | 55     | 12    | 28                       | 0.60  | -2.90                     | 0.38                 | 0                         | 4                            | 16    | 11         | 4         | .....  | H. W. Lowy, C. E.            |
| Huntingdon          | Huntingdon   | 650             | 43                      | 70.6                         | -0.1                      | 105     | 4     | 36     | 12    | 50                       | 0.72  | -3.37                     | 0.31                 | 0                         | 5                            | ..... | .....      | .....     | w.     | Prof. H. A. Conner.          |
| Hyndman             | Bedford      | 977             | 18                      | 71.0                         | +0.1                      | 106     | 37    | 40     | 13    | 56                       | 1.93  | -2.35                     | 0.89                 | 0                         | 6                            | 12    | 6          | 13        | .....  | Horace A. Sheavly.           |
| Kylertown           | Clearfield   | 1,637           | .....                   | 67.6                         | .....                     | 99      | 4     | 35     | 12    | 42                       | 0.31  | .....                     | 0.22                 | 0                         | 5                            | 12    | 13         | 6         | nw.    | U. S. Bureau Plant Industry. |
| Lancaster           | Lancaster    | 255             | 43                      | 71.4                         | -1.3                      | 102     | 5     | 39     | 13    | 46                       | 0.92  | -3.11                     | 0.59                 | 0                         | 7                            | 24    | 5          | 2         | nw.    | Supt. of Water Works.        |
| Lawrenceville       | Tioga        | 1,000           | 33                      | 68.2                         | +0.1                      | 97      | 37    | 34     | 13    | 48                       | 1.74  | -2.06                     | 1.06                 | 0                         | 7                            | 16    | 13         | 2         | .....  | C. P. Darling.               |
| Lebanon             | Lebanon      | 469             | 90                      | 74.4                         | +2.4                      | 104     | 4     | 46     | 13    | 38                       | 0.73  | -3.88                     | 0.32                 | 0                         | 7                            | 22    | 7          | 2         | sw.    | S. B. Benzing.               |
| Lewisburg           | Union        | 450             | 56                      | 73.2                         | +4.3                      | 106     | 4     | 41     | 13    | 45                       | 0.34  | -4.33                     | 0.14                 | 0                         | 6                            | 19    | 5          | 7         | w.     | Prof. W. G. Owens.           |
| Lock Haven          | Clinton      | 560             | 42                      | 72.8                         | +1.5                      | 105     | 4     | 42     | 12    | 43                       | 0.84  | -3.33                     | 0.44                 | 0                         | 6                            | 11    | 15         | 5         | ne.    | Joseph Beaver.               |
| Lykens              | Dauphin      | 680             | 16                      | 70.5                         | +0.3                      | 106     | 4     | 37     | 12    | 47                       | 1.58  | -2.26                     | 0.58                 | 0                         | 7                            | 21    | 7          | 3         | nw.    | Susquehanna Collieries Co.   |
| Mauch Chunk         | Carbon       | 600             | 41                      | 71.6                         | +1.3                      | 103     | 47    | 39     | 13    | 49                       | 2.12  | -2.85                     | 0.72                 | 0                         | 5                            | 18    | 10         | 3         | nw.    | R. K. Wintermute.            |
| Millintown          | Junata       | 445             | 27                      | 72.4                         | +1.8                      | 106     | 4     | 40     | 13    | 48                       | 0.55  | -3.97                     | 0.16                 | 0                         | 6                            | 16    | 6          | 9         | w.     | Wellington Smith.            |
| Montrose            | Susquehanna  | 1,720           | 28                      | 67.2                         | +0.3                      | 91      | 37    | 40     | 12    | 33                       | 1.81  | -2.40                     | 1.30                 | 0                         | 3                            | 19    | 9          | 3         | w.     | Silas Jagger.                |
| Mt. Pocono          | Monroe       | 1,658           | 26                      | 65.6                         | +1.4                      | 90      | 37    | 38     | 12    | 36                       | 2.10  | -2.24                     | 1.60                 | 0                         | 6                            | 17    | 9          | 5         | n.     | Cecil J. Hoskinson.          |
| Muncy Valley        | Sullivan     | 1,045           | 19                      | 68.4                         | +0.7                      | 103     | 4     | 36     | 12    | 46                       | 1.69  | -3.55                     | 0.66                 | 0                         | 8                            | 16    | 12         | 3         | sw.    | H. O. Hacker.                |
| Narberth            | Montgomery   | 300             | 11                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....     | .....  | Charles Decker.              |
| Neshaminy Falls II  | Bucks        | 60              | 41                      | 71.0                         | 0.0                       | 96      | 57    | 42     | 12    | 36                       | 3.45  | .....                     | 1.30                 | 0                         | 6                            | 23    | 5          | 3         | s.     | North Springfield Water Co.  |
| Palmerton           | Carbon       | 398             | 14                      | 70.6                         | .....                     | 100     | 4     | 42     | 12    | 34                       | 1.78  | .....                     | 0.86                 | 0                         | 7                            | 19    | 8          | 4         | sw.    | New Jersey Zinc Co.          |
| Philadelphia        | Philadelphia | 114             | 59                      | 75.7                         | +0.9                      | 98      | 5     | 57     | 23    | 23                       | 1.51  | -3.11                     | 0.81                 | 0                         | 8                            | 9     | 16         | 6         | sw.    | U. S. Weather Bureau.        |
| Philadelphia-Gtn    | Philadelphia | 113             | 6                       | 75.6                         | .....                     | 99      | 5     | 56     | 24    | 26                       | 1.64  | .....                     | 0.77                 | 0                         | 6                            | 7     | 18         | 6         | .....  | Julius Bernstein.            |
| Phila. Navy Yard    | Philadelphia | 12              | 15                      | 73.6                         | -0.4                      | 98      | 5     | 55     | 13    | 27                       | 1.32  | -3.58                     | 0.70                 | 0                         | 6                            | ..... | .....      | .....     | .....  | Commandant, Navy Yard.       |
| Phila. Point Breeze | Philadelphia | 90              | 5                       | 75.6                         | .....                     | 99      | 5     | 57     | 23    | 24                       | 1.89  | .....                     | 0.73                 | 0                         | 9                            | 12    | 11         | 8         | sw.    | Atlantic Refining Co.        |
| Phoenixville        | Chester      | 100             | 20                      | 74.1                         | +1.4                      | 102     | 57    | 43     | 13    | 41                       | 2.82  | -1.70                     | 0.84                 | 0                         | 7                            | 19    | 9          | 3         | s.     | North Springfield Water Co.  |
| Quakertown          | Bucks        | 496             | 46                      | 70.4                         | +3.2                      | 99      | 8     | 38     | 13    | 46                       | 1.84  | -2.45                     | 0.56                 | 0                         | 7                            | 15    | 11         | 5         | n.     | John E. Benner.              |
| Reading             | Berks        | 325             | 61                      | 73.8                         | +1.4                      | 99      | 5     | 51     | 13    | 50                       | 1.21  | -3.00                     | 0.70                 | 0                         | 6                            | 14    | 8          | 9         | sw.    | U. S. Weather Bureau.        |
| Scranton            | Lackawanna   | 805             | 36                      | 70.2                         | +0.4                      | 98      | 4     | 42     | 13    | 37                       | 1.85  | -1.84                     | 1.22                 | 0                         | 5                            | 10    | 19         | 2         | sw.    | U. S. Weather Bureau.        |
| Selinsgrove         | Snyder       | 455             | 42                      | 72.6                         | +1.1                      | 105     | 4     | 40     | 13    | 44                       | 1.11  | -3.29                     | 0.80                 | 0                         | 4                            | 18    | 8          | 5         | w.     | Dr. George E. Fisher.        |
| Shawmont II         | Philadelphia | 51              | 35                      | 73.8                         | .....                     | 97      | 57    | 49     | 13    | 32                       | 2.86  | -2.77                     | 1.10                 | 0                         | 7                            | 18    | 6          | 8         | w.     | W. S. Gules.                 |
| State College       | Center       | 1,217           | 46                      | 71.2                         | +2.5                      | 101     | 4     | 44     | 13    | 40                       | 0.65  | -3.13                     | 0.29                 | 0                         | 7                            | 16    | 11         | 4         | w.     | C. A. Kern.                  |
| Stroudsburg         | Monroe       | 500             | 16                      | 69.3                         | +0.5                      | 98      | 37    | 37     | 13    | 46                       | 2.12  | -3.19                     | 1.04                 | 0                         | 4                            | 16    | 12         | 8         | w.     | State Normal School.         |
| Towanda             | Bradford     | 754             | 36                      | 67.5                         | -1.0                      | 96      | 4     | 37     | 13    | 41                       | 0.87  | -2.83                     | 0.52                 | 0                         | 7                            | 11    | 14         | 6         | ne.    | Hiram E. Bull, C. E.         |
| Wellsboro           | Tioga        | 1,419           | 66                      | 66.5                         | +0.1                      | 97      | 8     | 33     | 13    | 52                       | 0.53  | -3.18                     | 0.19                 | 0                         | 4                            | 19    | 8          | 4         | w.     | George W. Hill.              |
| West Chester        | Chester      | 455             | 93                      | 73.1                         | +1.1                      | 97      | 5     | 52     | 13    | 28                       | 1.54  | -3.14                     | 0.62                 | 0                         | 6                            | 18    | 10         | 3         | sw.    | Joseph W. Belt.              |
| Williamsport        | Lycoming     | 521             | 44                      | 71.6                         | +0.9                      | 102     | 4     | 41     | 13    | 42                       | 0.53  | -4.08                     | 0.14                 | 0                         | 9                            | 16    | 6          | 9         | w.     | Miss Veronica E. April.      |
| York                | York         | 400             | 43                      | 73.0                         | +0.4                      | 104     | 4     | 40     | 13    | 46                       | 0.81  | -3.48                     | 0.28                 | 0                         | 7                            | 18    | 9          | 4         | s.     | York Water Co.               |
| Ohio Drainage.      |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |           |        |                              |
| Beaver Dam II       | Beaver       | 700             | 38                      | 69.8                         | -2.7                      | 96      | 4     | 43     | 13    | 48                       | 2.06  | -1.72                     | 0.70                 | 0                         | 13                           | 8     | 10         | 13        | sw.    | U. S. Engineer.              |
| Bradford            | McKean       | 1,460           | 15                      | 64.2                         | -2.9                      | 94      | 4     | 32     | 12    | 50                       | 0.75  | -2.68                     | 0.30                 | 0                         | 7                            | 6     | 20         | 5         | w.     | Supt. Timber Pres. Plant.    |
| Brookville          | Jefferson    | 1,173           | 40                      | 65.6                         | -0.9                      | 100     | 4     | 32     | 12    | 51                       | 0.62  | -3.51                     | 0.34                 | 0                         | 5                            | 22    | 7          | 2         | .....  | John Fawcett.                |
| Butler              | Butler       | 1,152           | 9                       | 68.2                         | .....                     | 100     | 4     | 37     | 13    | 48                       | 0.84  | .....                     | 0.50                 | 0                         | 5                            | 23    | 3          | 5         | w.     | William C. Faust.            |
| Chambersville       | Indiana      | 1,047           | .....                   | 66.7                         | .....                     | 102     | 4     | 34     | 12    | 51                       | 0.83  | .....                     | 0.30                 | 0                         | 6                            | 13    | 4          |           |        |                              |



## Daily Precipitation for August, 1930

| Stations           | Drainage Basin | Day of month |   |   |     |   |    |    |     |     |     |     |     |    |     |      |     |     |     |    |      |     |     |      |      |     |     |      |      |      |     |     | Total |      |
|--------------------|----------------|--------------|---|---|-----|---|----|----|-----|-----|-----|-----|-----|----|-----|------|-----|-----|-----|----|------|-----|-----|------|------|-----|-----|------|------|------|-----|-----|-------|------|
|                    |                | 1            | 2 | 3 | 4   | 5 | 6  | 7  | 8   | 9   | 10  | 11  | 12  | 13 | 14  | 15   | 16  | 17  | 18  | 19 | 20   | 21  | 22  | 23   | 24   | 25  | 26  | 27   | 28   | 29   | 30  | 31  |       |      |
| Atlantic Drainage. |                |              |   |   |     |   |    |    |     |     |     |     |     |    |     |      |     |     |     |    |      |     |     |      |      |     |     |      |      |      |     |     |       |      |
| Allentown\|\|\| | Lehigh         |              |   |   |     |   |    |    |     |     |     |     |     |    | .45 | .38  | T.  |     |     |    |      | .26 |     | .58  | .09  |     |     |      |      |      |     | T.  | 1.71  |      |
| Altoona            | Juniata        |              |   |   |     |   |    |    |     |     |     |     |     |    | .64 | .16  |     | .26 |     |    |      |     | .54 | .12  |      |     | .18 |      | .22  |      |     |     | 1.62  |      |
| Ansonia\|\|\| | W. Br. Susq.   |              |   |   | .01 |   |    |    |     | .27 |     |     |     |    | .11 | .04  | T.  | .03 |     |    |      |     |     |      | .08  | .12 | .24 |      |      |      |     |     | 0.90  |      |
| Arendtsville\|\|\| | Lower Susq.    |              |   |   |     |   |    |    |     | T.  |     |     |     |    | .20 | .14  | .25 | .06 |     |    |      |     |     |      |      |     |     | .27  |      |      |     |     | 0.92  |      |
| Baker's Summit     | Juniata        |              |   |   |     |   |    |    |     |     |     |     |     |    | .50 | .10  |     | .28 |     |    |      |     | .15 | .19  |      |     |     |      | .07  | .06  |     |     | 1.35  |      |
| Bellefonte***      | W. Br. Susq.   |              |   |   | T.  |   |    |    |     | T.  |     |     |     |    | .19 | T.   |     | T.  |     |    | T.   | T.  |     | .05  | T.   | T.  | .04 | T.   |      |      | .08 |     | 0.36  |      |
| Bethlehem          | Lehigh         |              |   |   |     |   |    |    |     | T.  |     |     |     |    | T.  | .47  | .07 | T.  | T.  |    |      |     |     | .65  |      |     |     | .08  |      |      |     |     | 1.27  |      |
| Blosserville\|\| | Lower Susq.    |              |   |   |     |   |    |    | .03 |     |     |     |     |    | .40 |      |     | .33 |     |    |      |     |     |      |      |     |     | .24  |      |      |     | .12 | 1.12  |      |
| Carlisle           | Lower Susq.    |              |   |   |     |   | T. |    |     | .03 |     |     |     |    | .16 | .10  |     | .36 | .04 |    |      |     |     |      |      |     | .11 | .08  |      | T.   | T.  | .15 | 1.03  |      |
| Catawissa          | N. Br. Susq.   |              |   |   |     |   |    |    |     |     |     |     |     |    | .26 | .20  |     |     |     |    |      |     |     | .05  |      |     |     |      |      |      |     |     | 0.59  |      |
| Center Hall        | Susquehanna    |              |   |   | .04 |   |    |    |     |     |     |     |     |    | .40 |      |     |     |     |    |      |     |     |      |      |     | .52 | .40  |      |      |     |     | .42   | 1.78 |
| Chambersburg       | Potomac        |              |   |   |     |   |    |    |     |     |     |     |     |    | .20 | .05  |     | .47 | .04 |    |      |     |     |      |      |     | T.  |      |      | T.   |     | .17 | 0.93  |      |
| Clearfield         | W. Br. Susq.   |              |   |   |     |   | T. |    |     |     |     |     |     |    | .15 |      |     | T.  |     |    | .20  | .20 | .11 | .07  | T.   |     |     | .02  |      |      |     | .06 | 0.81  |      |
| Coatesville        | Lower Del.     |              |   |   |     |   |    |    |     |     | .01 |     |     |    |     | .31  | .11 | .11 | .01 |    |      |     |     |      | .27  |     |     |      | 1.05 |      |     |     | .06   | 1.87 |
| Colebrook          | Lower Susq.    |              |   |   |     |   |    |    | .03 |     |     |     |     |    | .05 | .40  | .30 | .13 | .06 |    |      |     |     |      |      |     |     |      |      |      |     |     | 1.73  |      |
| Conshohocken       | Schuylkill     |              |   |   |     |   |    |    | .02 |     |     |     |     |    | T.  | .35  | .20 |     |     |    |      | .53 |     | .14  | .59  |     |     |      | .07  |      |     |     | 1.90  |      |
| Cresson            | Juniata        |              |   |   |     |   |    |    |     |     |     |     |     |    | .87 |      |     | .30 |     |    |      |     | .10 | .45  | .05  | .16 |     | .02  |      |      |     |     | 1.75  |      |
| Doylstown          | Lower Del.     |              |   |   |     |   | T. |    |     |     | T.  |     |     |    | T.  | .39  | .20 |     | .09 |    | .28  |     |     |      | .89  |     |     |      | .20  |      |     |     | 2.05  |      |
| Driftwood\|\|\| | W. Br. Susq.   |              |   |   |     |   |    |    | .10 |     |     |     | .05 |    | .21 |      |     | T.  |     |    |      |     |     |      |      |     |     |      |      |      |     | .02 | 0.43  |      |
| Emporium           | do.            |              |   |   |     |   | T. |    |     |     | T.  |     |     |    | .31 |      |     | .04 |     |    |      |     |     | .06  |      |     | .05 |      |      | .15  |     |     | .06   | 0.68 |
| Ephrata            | Lower Susq.    |              |   |   |     |   |    |    |     |     |     |     |     |    | .03 | .59  | .55 | .09 | .02 |    |      |     |     | .03  | .03  | .06 |     | .31  |      |      |     |     | 1.65  |      |
| Forest City        | N. Br. Susq.   |              |   |   | .03 |   |    |    |     |     |     |     |     |    | .27 | .25  |     | .86 |     |    |      |     |     | .56  | 1.05 |     |     |      |      |      | .02 |     | 3.04  |      |
| Freeland\|\|\| | Lehigh         |              |   |   |     |   | T. |    |     |     | .01 |     |     |    | .38 | .10  | .03 | .03 |     |    |      |     | .54 | .22  |      |     |     |      |      |      | T.  |     | 1.31  |      |
| George School      | Lower Del.     |              |   |   |     |   |    |    |     |     | T.  |     |     |    | .33 | .14  | .04 | .01 |     |    |      | T.  |     |      | 1.46 |     |     | 1.17 | .01  |      |     |     | 3.16  |      |
| Gettysburg         | Potomac        |              |   |   |     |   |    |    |     |     |     |     |     |    | .06 | .24  | .33 | .28 | .03 |    |      |     |     |      |      |     |     | .02  | .07  |      | T.  |     | 1.03  |      |
| Girardville\|\|\| | Lower Susq.    |              |   |   |     |   |    |    |     |     |     |     |     |    | .33 | .33  | .04 |     |     |    |      |     |     | .10  |      |     |     | T.   |      |      |     | .21 | 1.51  |      |
| Gordon             | Lower Susq.    |              |   |   |     |   |    |    |     |     |     |     |     |    | T.  | .45  | .80 | .02 | .15 |    |      |     |     | .03  |      |     | .03 |      |      |      |     |     | 1.48  |      |
| Gouldsboro\|\| | Lehigh         |              |   |   |     |   |    |    | .01 |     |     |     |     |    | .47 | .23  |     |     | .38 |    |      |     | .03 |      | .10  | .59 |     |      |      | .01  |     |     |       | 2.82 |
| Graterford         | Schuylkill     |              |   |   |     |   |    |    |     |     |     |     |     |    | .38 | .24  | .07 |     |     |    | .54  |     |     | .56  |      |     |     |      |      |      |     |     | 1.79  |      |
| Hamburg            | Schuylkill     |              |   |   |     |   |    |    |     |     |     |     |     |    | .40 | 1.72 |     |     |     |    |      |     |     | .22  | .03  |     |     | .28  |      |      |     |     | 2.65  |      |
| Hanover            | Lower Susq.    |              |   |   |     |   |    |    |     | .03 |     |     |     |    | .07 | .18  | .01 | .18 | .03 |    |      | .08 |     | T.   |      |     |     | .25  | .04  | T.   | T.  |     | 0.87  |      |
| Harrisburg**       | do.            |              |   |   |     |   |    |    |     |     | .01 | .06 |     |    | .14 | .17  |     | .17 |     |    |      |     |     |      |      |     |     |      |      | T.   | T.  |     | 1.21  |      |
| Hawley\|\|\| | Upper Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    | .29 | .29  |     |     | T.  |    | 1.00 |     |     | .70  | 1.61 |     |     |      |      | T.   | T.  | .07 | 3.96  |      |
| Hollisterville     | Upper Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    | .28 | .38  |     | .03 |     |    |      |     |     | .78  | .77  |     |     |      |      |      |     |     | 2.26  |      |
| Holtwood\|\| | Lower Susq.    |              |   |   |     |   |    |    |     |     |     |     |     |    | .38 | T.   | .17 | .02 |     |    |      |     |     | T.   |      |     |     | .03  | T.   |      |     |     | 0.60  |      |
| Huntingdon         | Juniata        |              |   |   |     |   |    |    |     | .03 |     |     |     |    | .31 | .10  |     | .23 |     |    |      |     |     |      | .05  |     |     |      |      |      |     |     | 0.72  |      |
| Hyndman            | Potomac        |              |   |   |     |   |    |    |     |     |     |     |     |    | .64 | .06  |     | .89 |     |    |      |     |     | .27  |      |     |     | .05  |      |      |     |     | 1.93  |      |
| Kylertown          | W. B. Susq.    |              |   |   |     |   |    |    | .03 |     |     |     |     |    | .19 | .03  |     |     |     |    |      |     |     | .02  |      |     |     |      | .04  |      |     |     | 0.31  |      |
| Lakeville\|\|\| | Upper Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    | .30 | .19  |     |     |     |    |      |     |     | .78  | 1.47 |     |     |      |      |      |     |     | 2.74  |      |
| Lancaster          | Lower Susq.    |              |   |   |     |   |    |    |     |     |     |     |     |    | .02 | .59  | .13 | .10 | .02 |    |      |     |     |      |      |     |     | .04  |      |      |     | *   | 0.92  |      |
| Lansford\|\|\| | Lehigh         |              |   |   |     |   |    |    |     |     |     |     |     |    | .48 | .13  | .02 |     |     |    |      |     |     | .35  | .01  |     |     |      |      |      |     |     | 0.99  |      |
| Lawrenceville      | N. Br. Susq.   |              |   |   |     |   |    |    | .15 |     |     |     |     |    | .10 | 1.06 |     |     |     |    |      |     | .10 | .18  | .10  |     |     |      |      | .05  | T.  |     | 1.74  |      |
| Lebanon            | Lower Susq.    |              |   |   |     |   | T. |    |     |     |     |     |     |    | .01 | .32  | .02 | .08 | .01 |    | .28  |     |     |      |      |     | .01 | T.   |      |      |     |     | 0.73  |      |
| Lewisburg          | W. Br. Susq.   |              |   |   |     |   |    |    |     |     |     |     |     |    | .05 | .14  | .09 | .02 | .01 |    |      |     |     | .03  |      |     |     |      |      |      |     |     | 0.34  |      |
| Lloyd              | do.            |              |   |   |     |   |    |    |     |     |     |     |     |    |     |      |     |     |     |    |      |     |     |      |      |     |     |      |      |      |     |     | 0.84  |      |
| Lock Haven         | do.            |              |   |   |     |   |    |    |     |     |     |     |     |    | .15 |      |     | .44 | .04 |    |      |     |     |      |      |     |     |      |      |      |     |     | 1.58  |      |
| Lykens             | Susquehanna    |              |   |   |     |   |    |    |     |     |     |     |     |    | .03 | .34  | .50 | .10 |     |    |      |     |     |      |      |     |     | .03  | .19  | .39  |     |     | 2.12  |      |
| Mauch Chunk        | Lehigh         |              |   |   |     |   |    |    |     |     |     |     |     |    | .06 | .60  | .23 |     |     |    |      |     |     | .72  |      |     | .51 |      |      |      |     |     | 2.52  |      |
| Milintown          | Juniata        |              |   |   |     |   |    |    |     |     |     |     |     |    | .16 |      | .14 | .16 | .03 |    |      |     |     | .03  |      | .03 |     |      |      |      |     |     | 0.55  |      |
| Montrose           | N. Br. Susq.   |              |   |   |     |   |    |    |     |     |     |     |     |    | T.  |      | .08 |     | .43 |    |      |     |     |      | 1.30 |     |     |      |      |      |     |     | 1.81  |      |
| Morris Run         | N. Br. Susq.   |              |   |   | .04 |   |    |    |     | .08 |     | .04 | T.  |    | .08 | .29  | .02 | .04 |     |    |      | .04 |     | .21  | .03  |     |     |      |      |      | .04 |     | 0.91  |      |
| Mount Pocono       | Upper Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    | .05 | .31  | .05 |     | .06 |    |      |     |     | 1.60 | .03  |     |     |      |      |      |     |     | 2.10  |      |
| Muncy Valley       | W. Br. Susq.   |              |   |   |     |   | T. | T. |     |     |     |     |     |    | .05 | .23  |     | .51 | .09 |    | .03  |     |     | .10  | .02  |     | .66 |      |      |      |     |     | 1.69  |      |
| Narberth           | Lower Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    |     | .43  | .31 |     | .04 |    |      |     |     |      |      |     |     |      |      | 1.30 |     |     | 3.45  |      |
| Neshaminy\|\|\| | Lower Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    | .05 | .41  |     | .10 |     |    |      |     |     | T.   |      |     |     | .46  |      |      |     |     | 1.02  |      |
| New Park           | Lower Susq.    |              |   |   |     |   |    |    |     |     |     |     |     |    | .28 |      |     | .02 |     |    |      |     |     | .52  |      |     |     | .04  |      |      | .33 |     | 1.78  |      |
| Palmerton          | Lehigh         |              |   |   |     |   |    |    |     |     |     |     |     |    | .14 |      |     |     | .03 |    |      |     |     | .70  | 1.67 |     |     |      |      |      |     |     | 2.54  |      |
| Paupack            | Upper Del.     |              |   |   |     |   |    |    |     |     |     |     |     |    | .01 | .54  | .01 |     |     |    |      |     |     |      |      |     |     |      |      |      |     |     |       |      |



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| Stations           | Drainage Basin    | Day of month |   |   |     |     |     |     |     |     |    |     |     |      |     |     |      |     |     |    |     |      |      |      |     |     |     |     |     |     |     |      | Total |
|--------------------|-------------------|--------------|---|---|-----|-----|-----|-----|-----|-----|----|-----|-----|------|-----|-----|------|-----|-----|----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|-------|
|                    |                   | 1            | 2 | 3 | 4   | 5   | 6   | 7   | 8   | 9   | 10 | 11  | 12  | 13   | 14  | 15  | 16   | 17  | 18  | 19 | 20  | 21   | 22   | 23   | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |
| Ohio Drainage.     |                   |              |   |   |     |     |     |     |     |     |    |     |     |      |     |     |      |     |     |    |     |      |      |      |     |     |     |     |     |     |     |      |       |
| Beaver Dam\|\|\| | Ohio.....         |              |   |   |     | .01 |     |     | .19 |     |    |     |     | .14  |     |     | .33  | .08 |     |    | .05 | .40  | .32  | .38  | .01 | .12 |     |     | .02 | .01 |     | 2.06 |       |
| Beaver Falls\|\|\| | Beaver.....       |              |   |   | T.  | T.  |     |     | .05 |     |    |     |     | .15  |     |     | .15  | .07 |     |    |     | 1.04 | .12  | .05  | .01 | .20 |     |     | .04 | T.  |     | 1.88 |       |
| Bradford.....      | Allegheny.....    |              |   |   | .02 |     |     |     |     |     |    | .03 |     |      | .07 | .03 |      | .02 |     |    |     |      | .21  | .14  |     |     |     |     |     |     | .30 | 0.75 |       |
| Brookville.....    | do.....           |              |   |   | T.  |     |     |     |     |     |    | T.  |     |      | .07 |     |      |     |     |    |     |      | .34  |      | .08 |     |     |     |     | .05 | .08 | 0.62 |       |
| Butler.....        | Ohio.....         |              |   |   |     | .02 |     |     |     |     |    |     |     | .16  |     |     |      |     |     |    |     |      | .50  | T.   | .10 |     |     |     |     |     | T.  | 0.84 |       |
| Chambersville..... | Allegheny.....    |              |   |   |     | T.  |     |     |     |     |    |     |     | .19  |     |     | .21  |     |     |    | T.  | .08  |      | .30  | .03 | .02 |     |     |     |     | T.  | 0.83 |       |
| Claysville.....    | Ohio.....         |              |   |   |     | .06 |     | .28 |     |     |    |     |     | .56  | .01 |     | .09  |     |     |    |     | .02  | .05  | .10  | .05 |     |     |     |     | T.  | T.  | .01  | 1.23  |
| Cloeff.....        | Allegheny.....    |              |   |   |     |     |     |     |     |     |    |     |     | .12  |     |     |      |     |     |    |     | .02  | T.   |      | .13 |     |     |     |     |     | .04 | 0.31 |       |
| Clymer††           | Conemaugh.....    |              |   |   |     |     |     |     |     |     |    |     |     | .18  | .20 |     | .08  |     |     |    | .05 | .08  |      |      | .20 |     |     |     |     |     |     | 0.79 |       |
| Confluence\|\|\| | Youghiogheny..... |              |   |   |     |     | .39 |     | .40 |     |    |     |     | .59  | .50 |     | .78  | .05 |     |    |     |      | .10  |      | .13 |     |     |     |     |     | .10 |      | 3.04  |
| Coraopolis\|\|\| | Ohio.....         |              |   |   |     |     |     |     |     |     |    |     |     |      |     |     |      |     |     |    |     |      |      |      |     |     |     |     |     |     |     |      |       |
| Corry.....         | Allegheny.....    |              |   |   |     |     |     |     |     |     |    |     |     |      |     |     |      |     |     |    |     |      |      |      |     |     |     |     |     |     |     |      |       |
| Coudersport.....   | Allegheny.....    |              |   |   | .01 |     |     | .22 |     |     |    |     | .02 | .06  | .03 | .08 |      |     |     |    |     | .21  |      | .10  | .04 |     |     |     |     |     | .10 |      | 0.87  |
| Derry.....         | Conemaugh.....    |              |   |   |     |     |     |     |     |     |    |     |     | .61  |     |     | .18  |     |     |    |     |      | .15  | .04  |     |     |     |     |     |     |     | 0.98 |       |
| Donora\|\|\| | Monongahela.....  |              |   |   |     | T.  | T.  |     | .01 |     |    |     |     | .43  | .05 |     | T.   | .10 |     |    |     | .03  | .21  |      | .50 |     | .03 |     |     | .03 |     | 1.39 |       |
| Ebensburg.....     | Conemaugh.....    |              |   |   |     | .01 |     |     |     |     |    |     |     | .50  | .07 |     | .25  |     |     |    |     |      | .15  | .51  | .02 | .04 |     |     |     |     |     |      | 1.55  |
| Elk Lick.....      | Youghiogheny..... |              |   |   |     | .25 |     | .03 |     |     |    |     |     | 1.14 | .10 |     | 1.22 |     |     |    |     |      | .23  |      |     |     |     |     |     |     |     | 2.97 |       |
| Falls Creek.....   | Allegheny.....    |              |   |   |     |     |     |     |     |     |    | T.  |     | .17  |     |     |      |     |     |    |     |      | .02  | .03  | .15 |     |     |     |     |     | .04 |      | 0.41  |
| Franklin\|\|\| | Allegheny.....    |              |   |   | .02 |     |     |     |     |     |    | T.  |     | .11  |     |     |      |     |     |    |     |      | .24  | .12  | .24 |     |     |     |     |     | .01 | .09  | 0.82  |
| Freeport\|\|\| | do.....           |              |   |   |     | .03 |     |     | T.  |     |    |     |     | .24  | T.  |     | .30  | .05 |     |    |     |      | .24  | .11  |     | .14 |     |     |     | .01 | T.  | 1.12 |       |
| Greensboro.....    | Monongahela.....  |              |   |   | .01 | .01 | .02 |     |     | .01 | T. |     |     | .66  | .29 |     | .51  | .02 |     |    |     |      | .16  | .13  | .18 |     | .70 |     |     |     |     |      | 2.71  |
| Greensburg.....    | Youghiogheny..... |              |   |   |     | T.  |     |     | T.  |     |    |     |     | .51  |     |     | T.   | .08 |     |    |     |      | .06  | .16  | .03 | T.  |     |     |     | .01 | T.  | 0.85 |       |
| Greenville.....    | Beaver.....       |              |   |   | T.  |     |     |     |     |     |    |     |     | .07  |     |     |      |     |     |    |     | .04  | .56  |      | .08 |     |     |     |     | .16 | .03 | .81  | 1.25  |
| Grove City.....    | do.....           |              |   |   | .04 |     | T.  |     |     |     |    |     |     | .10  |     |     | T.   |     |     |    |     |      | .41  |      |     |     |     |     |     | .04 | .03 | .05  | 0.67  |
| Herr's Isl. Dam\|\|\| | Ohio.....         |              |   |   |     | .02 |     |     | .09 |     |    |     |     | .41  |     |     |      | T.  |     |    |     | .69  | .12  | .07  |     |     |     |     | .01 | T.  |     | 1.41 |       |
| Ingram.....        | do.....           |              |   |   |     | .01 |     | .08 |     |     |    |     |     | .60  |     |     | .05  |     |     |    |     | .16  | .03  | .22  | .03 | T.  |     | .04 |     | .01 | T.  | .01  | 1.24  |
| Irwin.....         | Youghiogheny..... |              |   |   |     | T.  |     |     | T.  |     |    |     |     | .32  |     |     | .07  |     |     |    |     |      | .03  | .20  |     | .03 |     |     |     | .01 | T.  | .03  | 0.69  |
| Johnstown.....     | Conemaugh.....    |              |   |   |     | T.  |     | T.  |     |     |    |     |     | .85  | .10 |     | .31  |     |     |    |     | .08  | .10  | .38  | .10 |     | T.  | T.  | .04 | T.  |     | 1.96 |       |
| Kregar\|\|\| | Youghiogheny..... |              |   |   |     | T.  |     |     | T.  |     |    |     | .60 | .24  | T.  | .16 | .10  |     |     |    | .34 |      | .34  | 1.92 |     |     |     |     | T.  | .42 |     | 4.12 |       |
| Lock No. 4\|\|\| | Monongahela.....  |              |   |   |     | T.  |     |     | .04 |     |    |     |     | .43  | .07 |     | .22  | .08 |     |    |     |      | .02  | .07  | .09 | .26 |     | .20 |     | .02 |     |      | 1.50  |
| Lycippus.....      | Conemaugh.....    |              |   |   |     |     |     | T.  |     |     |    |     |     | .95  |     |     | .17  |     |     |    |     | T.   | .13  | .54  |     |     |     |     | T.  |     |     | 1.79 |       |
| Meadville.....     | Allegheny.....    |              |   |   | .12 |     |     |     |     |     |    |     |     |      | .01 |     |      |     |     |    |     | .20  |      | .55  | .20 |     |     |     |     |     | .20 | 1.27 |       |
| Mount Lebanon..... | Ohio.....         |              |   |   |     | .01 |     | .03 |     |     |    |     |     | .63  | .01 |     | .04  |     |     |    |     | .01  |      | .11  | .15 | .01 |     |     | .03 |     |     | T.   | 1.03  |
| New Castle\|\|\| | Beaver.....       |              |   |   | .02 |     |     |     | T.  |     |    |     |     | .10  | .01 |     | .01  | .01 |     |    |     | .01  | .67  | .39  | .17 | .03 | .02 |     |     | .01 | .19 | 1.64 |       |
| Newell.....        | Monongahela.....  |              |   |   |     | .11 |     | .16 |     |     |    |     |     | .38  |     | .10 |      |     |     |    |     | .48  | .20  | .05  | .03 |     | .15 |     |     |     |     | 1.76 |       |
| Parkers Landing\|\|\| | Allegheny.....    |              |   |   |     |     |     |     |     |     |    |     |     | .10  |     |     |      |     |     |    |     |      | .20  | .10  | .05 |     | T.  |     |     | T.  | T.  | 0.45 |       |
| Pennline\|\|\|†† | Beaver.....       |              |   |   | .05 |     |     |     |     |     |    |     |     | .02  |     | T.  |      |     |     |    |     | .06  | 1.03 | .38  | .65 | .14 |     | .35 |     |     |     | 2.68 |       |
| Pittsburgh***      | Ohio.....         |              |   |   | T.  | .01 |     | .08 |     |     |    |     |     | .39  | T.  | T.  | .02  |     |     |    |     | .45  | .01  | .14  | T.  |     |     |     | T.  | T.  | T.  | 1.10 |       |
| Ridgway.....       | Allegheny.....    |              |   |   |     |     |     |     | T.  |     |    |     |     | .18  |     |     |      |     |     |    |     |      | .04  |      | .11 |     |     |     |     |     |     | 0.33 |       |
| Saltsburg\|\|\| | Conemaugh.....    |              |   |   |     | .02 |     |     |     |     |    |     |     | .33  | .01 |     | .07  | .04 |     |    |     |      | .12  | .08  | .18 | .01 | T.  |     | .02 | .01 |     | 0.89 |       |
| Sharon\|\|\| | Beaver.....       |              |   |   | .07 |     |     |     |     |     |    |     |     | .05  |     |     | .22  | .32 | .07 |    |     | .35  | .09  | .22  | .32 | .07 |     |     |     |     |     | .05  | 1.22  |
| Somerset.....      | Youghiogheny..... |              |   |   |     |     |     | T.  |     |     |    |     |     | 1.06 | .02 |     | .61  |     |     |    |     |      | T.   | .13  | T.  | T.  | T.  | .24 | T.  | .09 | .01 |      | 2.16  |
| Springdale\|\|\| | Allegheny.....    |              |   |   |     | .02 |     | .04 |     |     |    |     |     | .38  |     |     | .05  | .02 |     |    |     |      | .04  | .43  | .08 |     |     |     |     | .02 | .02 |      | 1.10  |
| Uniontown.....     | Monongahela.....  |              |   |   |     | .29 |     | .18 |     |     |    |     |     | 1.01 | .09 |     | .78  |     |     |    |     |      | .23  |      | .42 |     | .10 |     |     |     | T.  |      | 3.10  |
| Unity Reservoir††  | Youghiogheny..... |              |   |   |     |     |     | T.  |     |     |    |     |     | .61  | .04 |     |      |     |     |    |     | .14  | .03  | .18  | T.  | T.  |     |     | T.  |     |     | 1.00 |       |
| Vandergrift.....   | Conemaugh.....    |              |   |   |     | .03 |     | .01 |     |     |    |     | .35 |      |     |     | .21  |     |     |    |     | .02  | .01  | .37  |     |     |     |     | .02 |     |     |      | 1.02  |
| Warren.....        | Allegheny.....    |              |   |   | .20 |     |     |     |     | .04 |    |     |     | .01  | .01 |     | .01  |     |     |    |     |      |      | .30  | .12 | .05 | .01 |     |     |     |     | .18  | 0.93  |
| Westford\|\|\| | Beaver.....       |              |   |   | .27 |     |     |     |     |     |    |     |     |      |     |     |      |     |     |    |     | .10  | .20  | .60  | .10 |     |     |     |     |     | .35 |      | 1.62  |
| West Newton\|\|\| | Youghiogheny..... |              |   |   |     |     |     |     |     |     |    |     |     | .40  | .06 |     | .02  | .12 |     |    |     |      |      | .20  | .09 |     |     | .07 |     | T.  |     | 0.96 |       |
| Zellenople.....    | Ohio.....         |              |   |   |     | .15 |     |     |     |     |    |     |     |      |     |     | .37  |     |     |    |     |      |      | .54  |     |     |     | .61 |     | .42 | .65 |      | 2.74  |
| Lake Drainage.     |                   |              |   |   |     |     |     |     |     |     |    |     |     |      |     |     |      |     |     |    |     |      |      |      |     |     |     |     |     |     |     |      |       |
| Erie***            | Lake Erie.....    |              |   |   | T.  | .02 |     |     |     |     |    | T.  | .17 |      |     |     |      |     |     |    |     |      | .16  |      | .76 | T.  |     |     |     | T.  |     | .05  | 1.16  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah. ‡ Mdt. to mdt.



Daily Temperatures for August, 1930

| Stations          | 1       | 2  | 3  | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |
|-------------------|---------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....    | Maximum | 83 | 91 | 97  | 98  | 95  | 92  | 94  | 95  | 94  | 86  | 75 | 73 | 80 | 69 | 73 | 83 | 76 | 80 | 78 | 78 | 71 | 80 | 64 | 74 | 83 | 84 | 84 | 86 | 90 | 88 | 88   | 83.3 |      |
|                   | Minimum | 56 | 60 | 65  | 70  | 76  | 68  | 62  | 67  | 69  | 68  | 52 | 47 | 45 | 49 | 59 | 59 | 58 | 62 | 53 | 58 | 59 | 51 | 55 | 51 | 52 | 54 | 59 | 60 | 61 | 62 | 62   | 59.0 |      |
| Altoona.....      | Maximum | 86 | 94 | 100 | 102 | 95  | 90  | 93  | 95  | 96  | 90  | 75 | 76 | 81 | 76 | 81 | 81 | 72 | 80 | 78 | 76 | 70 | 67 | 70 | 71 | 85 | 79 | 83 | 86 | 85 | 80 | 84   | 83.1 |      |
|                   | Minimum | 50 | 57 | 64  | 65  | 68  | 64  | 64  | 60  | 68  | 67  | 47 | 40 | 41 | 56 | 58 | 54 | 58 | 50 | 47 | 53 | 59 | 50 | 54 | 52 | 54 | 52 | 54 | 61 | 58 | 58 | 56.0 |      |      |
| Beaver Dam.....   | Maximum | 88 | 93 | 94  | 96  | 96  | 89  | 91  | 81  | 93  | 92  | 75 | 75 | 84 | 84 | 84 | 83 | 73 | 76 | 77 | 78 | 77 | 75 | 77 | 76 | 82 | 85 | 86 | 85 | 80 | 79 | 83.2 |      |      |
|                   | Minimum | 51 | 53 | 58  | 53  | 67  | 64  | 60  | 61  | 66  | 67  | 51 | 45 | 43 | 56 | 58 | 52 | 57 | 57 | 51 | 57 | 61 | 56 | 56 | 55 | 55 | 54 | 54 | 55 | 54 | 59 | 60   | 56.3 |      |
| Bellefonte.....   | Maximum | 85 | 94 | 98  | 100 | 96  | 90  | 96  | 97  | 95  | 82  | 72 | 75 | 81 | 68 | 83 | 84 | 74 | 79 | 77 | 78 | 74 | 73 | 66 | 72 | 84 | 85 | 86 | 90 | 89 | 82 | 88   | 83.6 |      |
|                   | Minimum | 46 | 56 | 55  | 68  | 60  | 60  | 57  | 55  | 62  | 52  | 47 | 37 | 38 | 56 | 58 | 48 | 59 | 44 | 44 | 57 | 60 | 46 | 55 | 50 | 48 | 47 | 48 | 47 | 64 | 54 | 53   | 52.6 |      |
| Brookville.....   | Maximum | 87 | 92 | 96  | 100 | 91  | 89  | 95  | 93  | 94  | 78  | 68 | 74 | 84 | 75 | 81 | 82 | 91 | 78 | 78 | 73 | 77 | 63 | 73 | 83 | 83 | 87 | 87 | 94 | 84 | 76 | 83.3 |      |      |
|                   | Minimum | 39 | 48 | 51  | 59  | 56  | 54  | 51  | 51  | 56  | 44  | 35 | 32 | 33 | 44 | 52 | 48 | 45 | 40 | 42 | 54 | 53 | 48 | 53 | 52 | 43 | 48 | 47 | 45 | 54 | 52 | 47.9 |      |      |
| Butler.....       | Maximum | 88 | 90 | 97  | 100 | 97  | 94  | 94  | 94  | 96  | 79  | 73 | 87 | 85 | 85 | 87 | 84 | 75 | 79 | 81 | 79 | 81 | 77 | 77 | 85 | 86 | 87 | 88 | 89 | 80 | 76 | 85.7 |      |      |
|                   | Minimum | 46 | 49 | 60  | 56  | 64  | 63  | 54  | 54  | 63  | 50  | 45 | 39 | 37 | 57 | 57 | 51 | 50 | 60 | 43 | 43 | 42 | 47 | 61 | 54 | 55 | 45 | 50 | 48 | 48 | 55 | 47   | 50.8 |      |
| Carlisle.....     | Maximum | 91 | 99 | 106 | 108 | 107 | 104 | 100 | 104 | 104 | 103 | 90 | 84 | 87 | 85 | 86 | 86 | 89 | 87 | 89 | 86 | 88 | 83 | 77 | 72 | 80 | 94 | 93 | 90 | 94 | 94 | 92   | 96   | 92.4 |
|                   | Minimum | 51 | 57 | 56  | 63  | 78  | 68  | 63  | 62  | 68  | 61  | 47 | 41 | 38 | 57 | 61 | 58 | 60 | 55 | 50 | 49 | 58 | 48 | 58 | 47 | 46 | 50 | 54 | 50 | 61 | 63 | 60   | 56.2 |      |
| Catawissa.....    | Maximum | 90 | 97 | 103 | 105 | 95  | 96  | 101 | 100 | 101 | 87  | 76 | 80 | 87 | 70 | 87 | 86 | 82 | 83 | 84 | 81 | 84 | 82 | 70 | 80 | 89 | 87 | 90 | 92 | 94 | 88 | 93   | 88.4 |      |
|                   | Minimum | 47 | 57 | 61  | 73  | 66  | 61  | 55  | 57  | 59  | 60  | 46 | 39 | 38 | 42 | 59 | 55 | 54 | 51 | 57 | 52 | 53 | 45 | 52 | 51 | 52 | 52 | 51 | 49 | 51 | 56 | 55   | 53.4 |      |
| Chambersburg..... | Maximum | 88 | 97 | 101 | 105 | 104 | 96  | 97  | 100 | 100 | 96  | 83 | 79 | 82 | 92 | 79 | 87 | 84 | 79 | 83 | 85 | 83 | 77 | 75 | 71 | 79 | 86 | 88 | 89 | 92 | 86 | 79   | 87.1 |      |
|                   | Minimum | 58 | 58 | 58  | 63  | 80  | 65  | 62  | 64  | 68  | 64  | 48 | 45 | 45 | 56 | 62 | 58 | 62 | 60 | 52 | 53 | 60 | 54 | 59 | 51 | 49 | 51 | 57 | 54 | 62 | 60 | 60   | 58.0 |      |
| Claysville.....   | Maximum | 92 | 99 | 100 | 103 | 100 | 94  | 95  | 91  | 99  | 93  | 79 | 82 | 92 | 79 | 87 | 84 | 79 | 83 | 85 | 83 | 77 | 75 | 71 | 79 | 86 | 88 | 89 | 92 | 86 | 79 | 79   | 87.1 |      |
|                   | Minimum | 49 | 49 | 56  | 65  | 72  | 64  | 60  | 58  | 65  | 65  | 46 | 40 | 41 | 53 | 59 | 49 | 62 | 49 | 45 | 46 | 59 | 55 | 54 | 52 | 51 | 49 | 50 | 51 | 63 | 56 | 60   | 54.6 |      |
| Clearfield.....   | Maximum | 94 | 98 | 102 | 103 | 100 | 95  | 100 | 99  | 100 | 88  | 74 | 81 | 88 | 82 | 89 | 90 | 88 | 87 | 85 | 81 | 76 | 75 | 71 | 75 | 78 | 85 | 88 | 85 | 88 | 90 | 86   | 87.6 |      |
|                   | Minimum | 43 | 48 | 53  | 60  | 62  | 61  | 53  | 53  | 60  | 61  | 45 | 35 | 35 | 35 | 50 | 57 | 48 | 56 | 45 | 45 | 57 | 50 | 50 | 54 | 53 | 56 | 52 | 55 | 60 | 54 | 52   | 50.0 |      |
| Coatesville.....  | Maximum | 85 | 89 | 95  | 96  | 99  | 90  | 96  | 98  | 97  | 88  | 78 | 76 | 82 | 75 | 80 | 85 | 74 | 81 | 80 | 77 | 76 | 74 | 67 | 76 | 78 | 85 | 85 | 87 | 91 | 88 | 89   | 84.7 |      |
|                   | Minimum | 56 | 60 | 65  | 69  | 76  | 68  | 72  | 66  | 72  | 66  | 51 | 45 | 42 | 54 | 62 | 65 | 56 | 64 | 55 | 52 | 60 | 50 | 56 | 48 | 50 | 55 | 60 | 54 | 61 | 64 | 61   | 59.2 |      |
| Corry.....        | Maximum | 82 | 88 | 92  | 94  | 91  | 88  | 92  | 92  | 91  | 77  | 68 | 72 | 80 | 73 | 80 | 80 | 75 | 75 | 75 | 75 | 75 | 74 | 64 | 73 | 78 | 83 | 82 | 85 | 85 | 80 | 81   | 80.8 |      |
|                   | Minimum | 42 | 45 | 53  | 62  | 60  | 56  | 56  | 55  | 61  | 59  | 45 | 36 | 34 | 49 | 61 | 51 | 57 | 45 | 47 | 54 | 50 | 52 | 56 | 56 | 52 | 50 | 52 | 48 | 55 | 52 | 56   | 51.8 |      |
| Emporium.....     | Maximum | 82 | 88 | 92  | 94  | 91  | 88  | 92  | 92  | 91  | 77  | 68 | 72 | 80 | 73 | 80 | 80 | 75 | 75 | 75 | 75 | 75 | 74 | 64 | 73 | 78 | 83 | 82 | 85 | 85 | 80 | 81   | 80.8 |      |
|                   | Minimum | 42 | 45 | 53  | 62  | 60  | 56  | 56  | 55  | 61  | 59  | 45 | 36 | 34 | 49 | 61 | 51 | 57 | 45 | 47 | 54 | 50 | 52 | 56 | 56 | 52 | 50 | 52 | 48 | 55 | 52 | 56   | 51.8 |      |
| Erie.....         | Maximum | 82 | 89 | 91  | 94  | 83  | 84  | 88  | 91  | 87  | 76  | 66 | 70 | 75 | 79 | 76 | 76 | 75 | 72 | 72 | 73 | 75 | 67 | 72 | 79 | 77 | 80 | 88 | 80 | 78 | 79 | 78.9 |      |      |
|                   | Minimum | 59 | 66 | 74  | 75  | 65  | 68  | 64  | 68  | 70  | 61  | 58 | 53 | 65 | 63 | 61 | 64 | 62 | 58 | 58 | 60 | 62 | 56 | 60 | 60 | 59 | 60 | 60 | 68 | 63 | 69 | 62.6 |      |      |
| Franklin.....     | Maximum | 91 | 96 | 98  | 100 | 94  | 93  | 98  | 92  | 99  | 78  | 72 | 78 | 88 | 85 | 87 | 83 | 83 | 80 | 79 | 82 | 75 | 82 | 67 | 79 | 88 | 88 | 91 | 90 | 88 | 85 | 73   | 85.9 |      |
|                   | Minimum | 45 | 49 | 56  | 66  | 57  | 62  | 54  | 56  | 59  | 63  | 45 | 37 | 36 | 40 | 54 | 52 | 53 | 44 | 45 | 47 | 53 | 54 | 55 | 55 | 49 | 50 | 51 | 48 | 51 | 53 | 57   | 51.5 |      |
| Freeland.....     | Maximum | 81 | 87 | 94  | 96  | 90  | 87  | 92  | 93  | 91  | 82  | 70 | 68 | 76 | 70 | 76 | 77 | 72 | 73 | 76 | 74 | 71 | 71 | 66 | 72 | 78 | 81 | 81 | 84 | 86 | 82 | 83   | 80.0 |      |
|                   | Minimum | 57 | 61 | 69  | 70  | 69  | 66  | 68  | 67  | 68  | 63  | 51 | 45 | 46 | 52 | 56 | 59 | 58 | 53 | 50 | 53 | 55 | 50 | 50 | 50 | 57 | 60 | 58 | 60 | 65 | 63 | 64   | 58.5 |      |
| Gettysburg.....   | Maximum | 84 | 95 | 100 | 103 | 101 | 97  | 95  | 100 | 99  | 94  | 85 | 79 | 84 | 80 | 81 | 83 | 82 | 80 | 78 | 78 | 75 | 74 | 70 | 77 | 86 | 85 | 82 | 87 | 92 | 90 | 95   | 86.8 |      |
|                   | Minimum | 61 | 63 | 64  | 71  | 78  | 71  | 66  | 71  | 71  | 68  | 54 | 51 | 48 | 60 | 62 | 59 | 62 | 60 | 55 | 55 | 59 | 54 | 60 | 52 | 52 | 55 | 62 | 56 | 67 | 65 | 63   | 61.1 |      |
| Greensburg.....   | Maximum | 91 | 95 | 99  | 102 | 96  | 87  | 91  | 93  | 96  | 96  | 90 | 77 | 87 | 84 | 83 | 77 | 80 | 81 | 81 | 83 | 78 | 73 | 82 | 76 | 87 | 85 | 87 | 89 | 85 | 79 | 79   | 86.1 |      |
|                   | Minimum | 55 | 57 | 61  | 65  | 72  | 65  | 63  | 63  | 66  | 67  | 48 | 43 | 47 | 55 | 60 | 53 | 60 | 51 | 47 | 52 | 60 | 56 | 55 | 55 | 53 | 52 | 55 | 57 | 65 | 59 | 61   | 57.4 |      |
| Grove City.....   | Maximum | 85 | 91 | 95  | 98  | 89  | 87  | 91  | 90  | 93  | 76  | 70 | 72 | 78 | 82 | 83 | 78 | 77 | 76 | 75 | 77 | 74 | 74 | 70 | 73 | 82 | 81 | 84 | 87 | 82 | 80 | 77   | 81.5 |      |
|                   | Minimum | 48 | 51 | 58  | 69  | 61  | 63  | 55  | 57  | 66  | 63  | 49 | 39 | 42 | 54 | 55 | 52 | 55 | 50 | 47 | 47 | 60 | 55 | 55 | 54 | 50 | 51 | 52 | 50 | 60 | 57 | 62   | 54.4 |      |
| Hamburg.....      | Maximum | 90 | 92 | 96  | 99  | 98  | 95  | 97  | 98  | 98  | 97  | 90 | 76 | 82 | 82 | 78 | 84 | 82 | 80 | 80 | 80 | 75 | 85 | 80 | 82 | 85 | 85 | 84 | 86 | 90 | 88 | 87   | 87.1 |      |
|                   | Minimum | 50 | 52 | 54  | 58  | 71  | 64  | 58  | 62  | 68  | 66  | 47 | 42 | 40 | 52 | 60 | 59 | 46 | 58 | 52 | 53 | 61 | 47 | 52 | 49 | 50 | 53 | 57 | 51 | 60 | 60 | 58   | 55.2 |      |
| Harrisburg.....   | Maximum | 84 | 94 | 99  | 103 | 99  | 91  | 95  | 97  | 97  | 85  | 76 | 76 | 82 | 87 | 83 | 84 | 70 | 80 | 79 | 80 | 76 | 74 | 67 | 77 | 86 | 85 | 85 | 87 | 91 | 89 | 91   | 84.8 |      |
|                   | Minimum | 61 | 66 | 70  | 73  | 81  | 75  | 70  | 71  | 74  | 69  | 58 | 55 | 50 | 59 | 63 | 59 | 61 | 64 | 57 | 58 | 60 | 57 | 57 | 54 | 56 | 60 | 62 | 58 | 68 | 68 | 67   | 63.3 |      |
| Hawley.....       | Maximum | 84 | 92 | 97  | 98  | 93  | 91  | 92  | 96  | 93  | 88  | 79 | 71 | 80 | 75 | 75 | 80 | 82 | 79 | 80 | 78 | 73 | 74 | 71 | 73 | 81 | 83 | 85 | 87 | 86 | 84 | 87   | 85.5 |      |
|                   | Minimum | 44 | 52 | 61  | 70  | 65  | 57  | 52  | 62  | 66  | 60  | 45 | 41 | 34 | 46 | 58 | 56 | 48 | 50 | 45 | 48 | 52 | 42 | 54 | 52 | 48 | 48 | 47 | 50 | 54 | 56 | 53   | 52.1 |      |
| Huntingdon.....   | Maximum | 90 | 97 | 102 | 105 | 100 | 93  | 97  | 100 | 98  | 86  | 78 | 79 | 86 | 85 | 84 | 80 | 85 | 83 | 85 | 83 | 85 | 83 | 67 | 76 | 88 | 89 | 92 | 88 | 88 | 88 | 88   | 85.0 |      |
|                   | Minimum | 46 | 55 | 62  | 60  | 69  | 63  | 59  | 57  | 63  | 59  | 46 | 36 | 38 | 56 | 61 | 51 | 44 | 45 | 47 | 50 | 52 | 52 | 47 | 48 | 49 | 49 | 49 | 49 | 49 | 49 | 49   | 53.2 |      |
| Johnstown.....    | Maximum | 92 | 96 | 100 | 102 | 98  | 90  | 94  | 97  | 100 | 84  | 75 | 80 | 84 | 81 | 80 | 83 | 83 | 81 | 81 | 80 | 74 | 73 | 73 | 74 | 87 | 88 | 88 | 87 | 83 | 88 | 88   | 85.4 |      |
|                   | Minimum | 53 | 57 | 58  | 60  | 72  | 66  | 64  | 63  | 67  | 66  | 50 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |







U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

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4 1930

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. SEPTEMBER, 1930. No. 9

## GENERAL SUMMARY.

Temperatures were above the normal almost constantly with wide departures on eight or ten dates, when the heat was very oppressive. However, a sharp drop occurred near the close of the month, and frost was reported at many stations on the 29th and 30th. The highest temperature for the State, 101°, just equaled the previous high record for September that was made in 1929. Good rains occurred in several localities, but covered a comparatively small portion of the State as a whole, in which the rainfall averaged a little more than two-thirds of the September normal. In the favored localities, the pastures and late truck crops were revived and greatly improved, but the rains were too late to materially help the corn crop, or much of the late potato crop. In general the drought conditions were further intensified during the month, and became more or less alarming. The soil in fully one-half of the State was too dry for plowing, and fall seeding, which is usually in progress during the last half of the month, was postponed in most sections awaiting more favorable conditions. Wherever good rains occurred the showers were generally intense and severe, and considerable damage was done by wind and lightning. A severe thunderstorm occurred at Selinsgrove on the 1st, and damage by lightning was estimated at upwards of \$35,000. At York a large barn was struck and burned on the same date, together with all of its contents, the loss being reported as \$10,000. Severe thunderstorms occurred in Harrisburg and vicinity on the 2d, and several buildings were struck and damaged by lightning. In nearby country districts several barns were burned and some stock was killed. A severe storm passed over the northern portion of Philadelphia on the 16th, uprooting many large trees and damaging numerous buildings. A funnel cloud was observed at Germantown in this storm, and was reported by two persons.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 90 stations, was 67.8°, an excess of 3.8° as compared with the September normal. The highest monthly mean was 76.2°, at Holtwood, and the lowest, 60.2° at Gouldsboro. Extremes for the month ranged from a maximum of 101°, at Arendtsville on the 2d, to a minimum of 27°, at Somerset on the 29th. The greatest daily range of temperature was 57°, at Clearfield on the 27th.

## PRECIPITATION.

The average precipitation for the State, as determined by the reports from 136 well-distributed stations, was 2.45 inches, which is 1.03 inches less than the monthly normal. The greatest monthly amount was 7.01 inches, at Montrose, while the lowest, 0.64 inch, was reported from Herrs Island Dam. The greatest amount recorded in any 24 consecutive hours was 2.95 inches, at York on the 13th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | *Highest | Direction | Date |
| Erie.....         | 236.9                   | 374.3                    | 63                     | 70               | 62       | 67      | 7,653                    | 10.6                        | 39       | sw.       | 26   |
| Harrisburg.....   | 285.2                   | 373.5                    | 76                     | 78               | 50       | 57      | 3,180                    | 4.4                         | 30       | sw.       | 16   |
| Philadelphia..... | 264.2                   | 373.5                    | 71                     | 74               | 52       | 61      | 6,615                    | 9.2                         | 39       | w.        | 2    |
| Pittsburgh.....   | 239.9                   | 374.0                    | 64                     | 75               | 46       | 52      | 5,239                    | 7.3                         | 28       | sw.       | 3    |
| Reading.....      | 214.0                   | 373.5                    | 57                     | 78               | 51       | 60      | 2,879                    | 4.0                         | 17       | w.        | 16   |
| Scranton.....     | 297.9                   | 374.0                    | 80                     | 82               | 51       | 62      | 3,309                    | 4.6                         | 21       | w.        | 6    |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR SEPTEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 59.6        | .....   | .....  | 4.84          | .....    | ..... | .....       | .....         | .....  | .....                  |
| 1889..... | 61.9        | .....   | .....  | 5.05          | .....    | ..... | .....       | .....         | .....  | .....                  |
| 1890..... | 62.2        | 91      | 25     | 4.57          | 8.54     | 2.05  | 10          | 9             | 11     | 11                     |
| 1891..... | 66.6        | 94      | 32     | 2.39          | 5.00     | 1.05  | 17          | 8             | 5      | .....                  |
| 1892..... | 62.4        | 90      | 29     | 2.81          | 4.85     | 1.18  | 16          | 7             | 7      | 7                      |
| 1893..... | 61.2        | 90      | 26     | 2.67          | 5.59     | 0.72  | 9           | 12            | 9      | 8                      |
| 1894..... | 66.6        | 95      | 24     | 6.30          | 12.36    | 2.82  | 10          | 10            | 10     | 10                     |
| 1895..... | 67.8        | 100     | 24     | 1.71          | 5.41     | 0.37  | 16          | 9             | 5      | 6                      |
| 1896..... | 63.6        | 98      | 26     | 4.82          | 8.57     | 1.73  | 13          | 8             | 9      | 10                     |
| 1897..... | 63.8        | 100     | 24     | 2.18          | 4.21     | 0.25  | 18          | 7             | 5      | 5                      |
| 1898..... | 66.0        | 100     | 25     | 1.70          | 3.95     | 0.38  | 16          | 8             | 6      | 6                      |
| 1899..... | 61.8        | 93      | 23     | 4.70          | 9.31     | 2.03  | 12          | 9             | 9      | 10                     |
| 1900..... | 68.4        | 100     | 27     | 1.77          | 6.90     | 0.48  | 13          | 10            | 7      | 6                      |
| 1901..... | 63.6        | 95      | 29     | 3.89          | 6.61     | 1.64  | 14          | 7             | 9      | 9                      |
| 1902..... | 62.7        | 99      | 28     | 4.66          | 11.95    | 1.50  | 12          | 8             | 10     | 11                     |
| 1903..... | 63.2        | 94      | 27     | 2.09          | 3.88     | 0.91  | 17          | 8             | 5      | 6                      |
| 1904..... | 63.7        | 95      | 21     | 3.37          | 7.40     | 0.82  | 13          | 10            | 7      | 9                      |
| 1905..... | 64.0        | 95      | 27     | 3.41          | 7.30     | 1.70  | 15          | 9             | 6      | 7                      |
| 1906..... | 67.0        | 99      | 30     | 2.46          | 6.57     | 0.36  | 15          | 9             | 6      | 7                      |
| 1907..... | 64.8        | 95      | 29     | 6.37          | 11.86    | 2.18  | 8           | 10            | 12     | 14                     |
| 1908..... | 65.6        | 99      | 26     | 1.60          | 4.06     | 0.51  | 17          | 9             | 4      | 3                      |
| 1909..... | 62.8        | 96      | 26     | 2.27          | 4.90     | 0.64  | 15          | 9             | 6      | 6                      |
| 1910..... | 65.5        | 95      | 32     | 4.49          | 8.45     | 2.26  | 13          | 8             | 9      | 10                     |
| 1911..... | 64.9        | 92      | 26     | 5.29          | 10.18    | 1.85  | 13          | 9             | 8      | 10                     |
| 1912..... | 65.5        | 95      | 25     | 5.67          | 11.43    | 2.47  | 12          | 7             | 11     | 12                     |
| 1913..... | 62.4        | 97      | 24     | 3.28          | 8.43     | 1.24  | 13          | 7             | 10     | 8                      |
| 1914..... | 61.5        | 98      | 21     | 0.99          | 2.67     | 0.03  | 18          | 7             | 5      | 5                      |
| 1915..... | 66.5        | 96      | 25     | 2.56          | 6.96     | 0.45  | 16          | 9             | 5      | 8                      |
| 1916..... | 62.5        | 98      | 23     | 3.77          | 8.18     | 0.91  | 17          | 8             | 5      | 8                      |
| 1917..... | 59.0        | 91      | 25     | 2.31          | 6.34     | 0.00  | 16          | 9             | 5      | 6                      |
| 1918..... | 58.7        | 88      | 28     | 3.97          | 7.52     | 1.82  | 12          | 8             | 10     | 10                     |
| 1919..... | 64.4        | 96      | 28     | 2.07          | 4.09     | 0.46  | 16          | 8             | 6      | 8                      |
| 1920..... | 64.5        | 91      | 24     | 3.99          | 9.40     | 0.97  | 16          | 8             | 6      | 9                      |
| 1921..... | 68.9        | 98      | 31     | 4.63          | 11.48    | 1.47  | 13          | 9             | 8      | 11                     |
| 1922..... | 66.3        | 100     | 22     | 1.48          | 3.73     | 0.17  | 19          | 7             | 4      | 4                      |
| 1923..... | 64.8        | 92      | 22     | 3.55          | 8.68     | 1.54  | 13          | 10            | 7      | 10                     |
| 1924..... | 59.8        | 99      | 26     | 6.44          | 11.72    | 3.46  | 11          | 7             | 12     | 11                     |
| 1925..... | 67.5        | 99      | 24     | 2.80          | 7.63     | 0.86  | 11          | 12            | 7      | 12                     |
| 1926..... | 64.2        | 99      | 26     | 5.81          | 13.90    | 2.23  | 11          | 7             | 12     | 8                      |
| 1927..... | 64.9        | 97      | 27     | 2.08          | 7.00     | 0.20  | 18          | 7             | 5      | 6                      |
| 1928..... | 60.4        | 94      | 25     | 2.33          | 5.73     | 0.71  | 12          | 9             | 9      | 9                      |
| 1929..... | 65.7        | 101     | 24     | 3.71          | 8.72     | 1.05  | 14          | 8             | 8      | 9                      |
| 1930..... | 67.8        | 101     | 27     | 2.45          | 7.01     | 0.64  | 15          | 10            | 5      | 9                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 1.9        | 2.8           | 17   | 1.3          | 15   | 18          |
| Phillipsburg..... | Delaware.....     | 0.8        | 1.7           | 22   | 0.3          | 27   | 22          |
| Mauch Chunk.....  | Lehigh.....       | 1.0        | 1.2           | 15   | 0.8          | 2    | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 1.9        | 5.3           | 17   | 1.2          | 2    | 20          |
| Williamsport..... | Susquehanna.....  | -0.1       | 0.0           | 2    | -0.3         | 25   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.1        | 3.5           | 20   | 3.0          | 1    | 17          |
| Greensboro.....   | Monongahela.....  | 8.7        | 11.4          | 25   | 6.2          | 15   | 30          |
| West Newton.....  | Youghiogheny..... | 0.0        | 0.0           | 1    | -0.1         | 5    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.5       | 12.5          | 1    | 12.3         | 10   | 31          |
| Pittsburgh.....   | Ohio.....         | 9.5        | 9.5           | 1    | 9.4          | 22   | 25          |
| Beaver Dam.....   | Ohio.....         | 7.4        | 7.5           | 3    | 7.4          | 1    | 30          |



## Climatological Data for September, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |      |                 |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Observers |        |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|------|-----------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|-----------|--------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date | Lowest          | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |           | Cloudy | Prevailing direction of wind |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                              |       |            |           |        |                              |
| Allentown          | Lehigh       | 254             | 19                      | 68.1                         | .....                     | 91              | 16   | 44              | 29†  | 36                       | 1.45  | -1.90                     | 0.56                 | 0                         | 9                            | 19    | 9          | 2         | ne.    | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 43                      | 67.2                         | +4.5                      | 90              | 2    | 35              | 30   | 38                       | 2.36  | -0.42                     | 0.88                 | 0                         | 9                            | 22    | 7          | 1         | w.     | F. E. Rooney.                |
| Arendtsville       | Adams        | 700             | 6                       | 72.1                         | .....                     | 101             | 2    | 39              | 29   | 41                       | 2.53  | .....                     | 1.26                 | 0                         | 6                            | 18    | 7          | 5         | nw.    | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 25                      | 65.8                         | .....                     | 93              | 15   | 33              | 30   | 43                       | 1.42  | -1.87                     | 0.48                 | 0                         | 9                            | 10    | 10         | 10        | sw.    | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 44                      | 69.6                         | +3.4                      | 93              | 16   | 43              | 30   | 41                       | 1.61  | -1.78                     | 0.77                 | 0                         | 7                            | 20    | 4          | 6         | sw.    | Lehigh University.           |
| Carlisle           | Cumberland   | 487             | 64                      | 71.4                         | +6.7                      | 98              | 2    | 36              | 29   | 43                       | 0.99  | -2.63                     | 0.49                 | 0                         | 5                            | 17    | 9          | 4         | se.    | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 34                      | 69.4                         | +5.9                      | 94              | 2    | 36              | 30   | 42                       | 3.56  | +0.16                     | 0.86                 | 0                         | 8                            | 15    | 9          | 5         | .....  | W. L. Gearhart.              |
| Center Hall        | Center       | 1,272           | 34                      | 65.5                         | +3.5                      | 92              | 15   | 36              | 9    | 47                       | 2.81  | -0.18                     | 0.62                 | 0                         | 9                            | 18    | 7          | 5         | .....  | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 31                      | 71.2                         | +5.3                      | 96              | 2    | 38              | 29   | 37                       | 1.19  | -1.55                     | 0.47                 | 0                         | 7                            | 13    | 12         | 5         | .....  | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 21                      | 67.2                         | +4.0                      | 94              | 14†  | 30              | 29†  | 57                       | 1.72  | -2.06                     | 0.81                 | 0                         | 10                           | 16    | 14         | 0         | w.     | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 43                      | 70.2                         | +4.1                      | 93              | 2    | 44              | 29   | 33                       | 4.84  | +0.94                     | 2.41                 | 0                         | 10                           | 12    | 15         | 3         | sw.    | Howard L. Pyle.              |
| Colebrook          | Lebanon      | 560             | 21                      | 68.6                         | +4.5                      | 91              | 2    | 39              | 29   | 33                       | 1.83  | -2.20                     | 0.70                 | 0                         | 9                            | 19    | 6          | 5         | w.     | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 43                      | 68.8                         | +2.4                      | 88              | 21   | 35              | 29†  | 47                       | 2.57  | -0.87                     | 0.62                 | 0                         | 10                           | 14    | 13         | 3         | w.     | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 30                      | 70.3                         | +4.8                      | 91              | 2†   | 44              | 28   | 33                       | 2.44  | -1.04                     | 1.55                 | 0                         | 10                           | 14    | 7          | 9         | nw.    | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 15                      | 66.0                         | +6.7                      | 87              | 2    | 39              | 30   | 27                       | 1.98  | -1.51                     | 0.41                 | 0                         | 10                           | 14    | 7          | 9         | nw.    | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 24                      | 71.6                         | +6.7                      | 92              | 2†   | 41              | 29   | 37                       | 1.82  | -1.20                     | 0.81                 | 0                         | 8                            | 19    | 7          | 4         | s.     | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 57                      | 72.4                         | +7.4                      | 97              | 1    | 44              | 29   | 34                       | 2.26  | -1.11                     | 1.87                 | 0                         | 8                            | 18    | 7          | 5         | s.     | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 27                      | 66.1                         | +4.3                      | 91              | 2    | 31              | 29   | 39                       | 1.84  | -2.62                     | 0.80                 | 0                         | 10                           | 16    | 8          | 6         | w.     | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 60.2                         | .....                     | 88              | 15   | 28              | 29†  | 43                       | 2.68  | -0.64                     | 0.75                 | 0                         | 12                           | 18    | 8          | 4         | w.     | Gustav Holtz                 |
| Hamburg            | Berks        | 535             | 37                      | 68.0                         | +2.5                      | 91              | 2†   | 38              | 29   | 36                       | 2.08  | -2.12                     | 1.09                 | 0                         | 9                            | 12    | 3          | 15        | w.     | State Sanatorium.            |
| Hanover            | York         | 600             | 27                      | 74.1                         | +6.9                      | 97              | 2    | 45              | 29   | 33                       | 1.64  | -1.21                     | 0.95                 | 0                         | 9                            | 19    | 7          | 4         | s.     | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 61                      | 71.8                         | +6.0                      | 93              | 2    | 50              | 29   | 28                       | 2.89  | -0.16                     | 1.31                 | 0                         | 8                            | 10    | 14         | 6         | w.     | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 12                      | 63.6                         | .....                     | 87              | 2    | 32              | 30   | 39                       | 2.92  | .....                     | 0.82                 | 0                         | 9                            | 18    | 10         | 2         | w.     | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 15                      | 76.2                         | .....                     | 97              | 2†   | 50              | 28   | 31                       | 2.07  | -0.30                     | 0.73                 | 0                         | 7                            | 11    | 11         | 8         | w.     | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 43                      | 68.7 <sup>b</sup>            | +4.4                      | 96 <sup>b</sup> | 2    | 34 <sup>b</sup> | 30   | 48 <sup>b</sup>          | 0.71  | -2.71                     | 0.18                 | 0                         | 9                            | 18    | 8          | 4         | w.     | Prof. Paul E. Yoder.         |
| Hyndman            | Bedford      | 977             | 18                      | 70.0                         | +5.5                      | 96              | 14   | 31              | 29   | 47                       | 1.68  | -1.48                     | 0.91                 | 0                         | 8                            | 13    | 8          | 9         | .....  | Horace A. Sheavly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | 64.9                         | .....                     | 89              | 1    | 32              | 29   | 42                       | 3.41  | .....                     | 1.52                 | 0                         | 9                            | 14    | 10         | 6         | w.     | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 43                      | 70.4                         | +5.9                      | 96              | 2    | 40              | 28†  | 40                       | 3.00  | -0.34                     | 1.39                 | 0                         | 7                            | 18    | 5          | 7         | w.     | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 65.0                         | +3.7                      | 90              | 12   | 35              | 30   | 48                       | 4.28  | +1.25                     | 1.05                 | 0                         | 8                            | 16    | 11         | 3         | .....  | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 90                      | 71.5                         | +6.3                      | 94              | 2    | 43              | 29   | 35                       | 3.36  | +0.18                     | 1.56                 | 0                         | 6                            | 17    | 10         | 3         | nw.    | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 56                      | 69.6                         | +7.6                      | 91              | 6†   | 38              | 30   | 40                       | 3.10  | -0.43                     | 1.03                 | 0                         | 12                           | 17    | 7          | 6         | w.     | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 42                      | 69.0                         | +4.3                      | 94              | 2†   | 36              | 29   | 41                       | 2.20  | -2.20                     | 0.60                 | 0                         | 10                           | 15    | 14         | 1         | sw.    | Joseph Beaver.               |
| Lykens             | Dauphin      | 680             | 16                      | 68.2                         | +4.0                      | 95              | 2    | 33              | 29†  | 44                       | 1.16  | -3.47                     | 0.38                 | 0                         | 9                            | 21    | 8          | 1         | nw.    | Susquehanna Collieries Co    |
| Mauch Chunk        | Carbon       | 600             | 41                      | 68.4                         | +4.4                      | 93              | 2†   | 41              | 30   | 43                       | 4.36  | +0.49                     | 1.27                 | 0                         | 10                           | 20    | 6          | 4         | s.     | R. K. Wintermute.            |
| Mifflintown        | Juniata      | 445             | 27                      | 69.8                         | +6.0                      | 97              | 2    | 38              | 28   | 44                       | 0.79  | -3.00                     | 0.17                 | 0                         | 9                            | 18    | 5          | 7         | w.     | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 28                      | 63.0                         | +2.9                      | 84              | 16   | 36              | 29   | 30                       | 7.01  | +3.09                     | 2.25                 | 0                         | 10                           | 18    | 8          | 4         | w.     | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 62.5                         | +4.4                      | 85              | 16   | 33              | 30   | 31                       | 3.38  | -1.51                     | 1.70                 | 0                         | 10                           | 13    | 8          | 9         | nw.    | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 65.0                         | +3.6                      | 89              | 2    | 30              | 30   | 39                       | 2.63  | -0.85                     | 0.71                 | 0                         | 9                            | 19    | 7          | 4         | sw.    | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 11                      | 69.3                         | .....                     | 91              | 2    | 44              | 29   | 31                       | 4.02  | .....                     | 2.19                 | 0                         | 10                           | 15    | 9          | 6         | sw.    | Charles Decker.              |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 69.1                         | +3.7                      | 92              | 15   | 39              | 29   | 38                       | 1.96  | .....                     | 0.40                 | 0                         | 9                            | 19    | 10         | 1         | s.     | North Springfield Water Co   |
| Palmerton          | Carbon       | 398             | 14                      | 67.0                         | .....                     | 88              | 16   | 38              | 29   | 32                       | 3.50  | .....                     | 1.58                 | 0                         | 8                            | 17    | 9          | 4         | sw.    | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 59                      | 74.1                         | +6.1                      | 91              | 15   | 55              | 30   | 21                       | 2.57  | -0.57                     | 1.13                 | 0                         | 9                            | 7     | 14         | 9         | sw.    | U. S. Weather Bureau.        |
| Philadelphia-Gtn   | Philadelphia | 113             | 5                       | 73.8                         | .....                     | 92              | 2†   | 52              | 29†  | 26                       | 2.11  | .....                     | 1.09                 | 0                         | 8                            | 9     | 14         | 7         | .....  | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 72.4                         | +4.4                      | 89              | 1†   | 52              | 30   | 26                       | 1.48  | -1.59                     | 0.68                 | 0                         | 7                            | ..... | .....      | .....     | .....  | Commandant, Navy Yard.       |
| Phoenixville       | Chester      | 100             | 20                      | 72.7                         | +6.3                      | 95              | 2    | 40              | 29   | 38                       | 2.59  | -0.49                     | 0.72                 | 0                         | 8                            | 20    | 9          | 1         | s.     | North Springfield Water Co   |
| Quakertown         | Bucks        | 496             | 46                      | 68.6 <sup>b</sup>            | +5.0                      | 93              | 16   | 40 <sup>d</sup> | 30   | 42 <sup>d</sup>          | 1.48  | -2.18                     | 0.60                 | 0                         | 7                            | 13    | 13         | 4         | nw.    | John E. Benner.              |
| Reading            | Berks        | 325             | 61                      | 71.4                         | +5.1                      | 91              | 2    | 49              | 30   | 31                       | 3.25  | +0.04                     | 1.25                 | 0                         | 11                           | 9     | 13         | 8         | se.    | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 36                      | 66.4                         | +3.5                      | 88              | 16   | 39              | 30   | 34                       | 2.76  | -0.41                     | 0.67                 | 0                         | 13                           | 12    | 13         | 5         | sw.    | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 42                      | 69.6                         | +5.2                      | 93              | 2    | 37              | 30   | 40                       | 1.08  | -2.58                     | 0.44                 | 0                         | 7                            | 19    | 7          | 4         | sw.    | Dr. George E. Fisher.        |
| Shawmont           | Philadelphia | 51              | 35                      | 72.2                         | .....                     | 91              | 2    | 44              | 29   | 29                       | 2.46  | -0.77                     | 0.88                 | 0                         | 10                           | 9     | 14         | 7         | s.     | W. S. Guiles.                |
| State College      | Center       | 1,217           | 46                      | 67.8                         | +5.4                      | 92              | 2    | 38              | 29   | 37                       | 1.59  | -1.47                     | 0.51                 | 0                         | 10                           | 16    | 13         | 1         | sw.    | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 16                      | 64.7                         | +2.4                      | 90              | 16   | 31              | 30   | 43                       | 1.11  | -1.84                     | 0.50                 | 0                         | 7                            | 13    | 8          | 9         | w.     | State Normal School.         |
| Towanda            | Bradford     | 754             | 36                      | 64.9                         | +2.9                      | 89              | 2    | 38              | 30   | 36                       | 6.46  | +3.43                     | 2.18                 | 0                         | 12                           | 13    | 8          | 9         | s.     | Hiram E. Bull, C. E.         |
| Wellsboro          | Tioga        | 1,419           | 66                      | 62.5                         | +2.8                      | 92              | 2    | 32              | 30   | 43                       | 2.75  | -0.46                     | 0.98                 | 0                         | 9                            | 20    | 7          | 3         | w.     | George W. Hill.              |
| West Chester       | Chester      | 455             | 98                      | 71.0                         | +5.7                      | 89              | 2    | 45              | 28   | 26                       | 4.00  | +0.08                     | 2.30                 | 0                         | 6                            | 14    | 13         | 3         | w.     | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 44                      | 67.6                         | +3.7                      | 91              | 15   | 36              | 30   | 40                       | 2.16  | -1.05                     | 0.62                 | 0                         | 11                           | 19    | 6          | 5         | w.     | Miss Veronica E. April.      |
| York               | York         | 400             | 43                      | 72.0                         | +6.4                      | 97              | 2    | 40              | 29   | 44                       | 4.39  | +1.06                     | 2.95                 | 0                         | 8                            | 14    | 14         | 2         | se.    | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                              |       |            |           |        |                              |
| Beaver Dam         | Beaver       | 700             | 38                      | 68.6                         | +2.4                      | 97              | 15   | 39              | 29†  | 42                       | 1.82  | -0.77                     | 0.50                 | 0                         | 9                            | 10    | 8          | 12        | sw.    | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 15                      | 60.4                         | 0.0                       | 88              | 14   | 32              | 29   | 46                       | 2.47  | -2.08                     | 0.62                 | 0                         | 8                            | 12    | 10         | 8         | w.     | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 40                      | 63.0 <sup>b</sup>            | +3.3                      | 91 <sup>b</sup> | 7    | 30 <sup>b</sup> | 29   | 50 <sup>b</sup>          | 1.55  | -1.77                     | 0.35                 | 0                         | 7                            | 21    | 8          | 1         | .....  | John Fawcett.                |
| Butler             | Butler       | 1,152           | 9                       | 66.6                         | .....                     | 89              | 2†   | 32              | 30   | 48                       | 2.29  | .....                     | 0.68                 | 0                         | 7                            | 13    | 10         | 7         | w.     | William C. Faust.            |
| Chambersville      | Indiana      | 1,047           | .....                   | 65.6                         | .....                     | 92              | 1†   | 30              | 29   | 45                       | 2.80  | .....                     | 1.12                 | 0                         | 12                           | 15    | 2          | 13        | w.     | John E. Lewis.               |
| Claysville         | Washington   | 1,150           | 27                      | 69.2</                       |                           |                 |      |                 |      |                          |       |                           |                      |                           |                              |       |            |           |        |                              |



## Daily Precipitation for September, 1930

| Stations           | Drainage Basin | Day of month |      |     |     |    |     |      |     |   |    |    |      |      |      |      |      |      |     |    |    |    |     |     |     |      |     |     |     |     |     |      | Total |
|--------------------|----------------|--------------|------|-----|-----|----|-----|------|-----|---|----|----|------|------|------|------|------|------|-----|----|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-------|
|                    |                | 1            | 2    | 3   | 4   | 5  | 6   | 7    | 8   | 9 | 10 | 11 | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19 | 20 | 21 | 22  | 23  | 24  | 25   | 26  | 27  | 28  | 29  | 30  | 31   |       |
| Atlantic Drainage. |                |              |      |     |     |    |     |      |     |   |    |    |      |      |      |      |      |      |     |    |    |    |     |     |     |      |     |     |     |     |     |      |       |
| Allentown\|\|\| | Lehigh         | .18          | .18  | .08 | .07 |    |     | .01  | .27 |   |    |    |      | T.   | .08  |      | .56  |      |     |    |    |    |     |     |     |      |     |     |     |     | .02 |      | 1.45  |
| Altouna            | Juniata        | .18          |      | .60 |     |    |     |      | .03 |   |    |    |      | .88  |      | T.   | .09  | .28  |     |    |    |    | .08 |     |     | .10  |     |     |     |     | .12 |      | 2.36  |
| Ansonia\|\|\| | W. Br. Susq.   | .10          | .01  |     |     |    |     |      |     |   |    |    |      | .60  | .45  | .16  | .21  |      |     |    |    |    |     |     |     | .03  | .37 | .90 |     |     |     |      | 2.83  |
| Arendtsville\|\|\| | Lower Susq.    | .24          |      |     |     |    |     | .08  |     |   |    |    |      | .08  |      |      | .90  | .36  |     |    |    |    |     |     | .87 |      |     |     |     |     |     |      | 2.53  |
| Baker's Summit.    | Juniata        | .01          |      | .07 |     |    |     |      | .12 |   |    |    |      | .13  |      |      | .11  | .29  |     |    |    |    | .01 |     |     | .04  | T.  |     |     |     |     |      | 0.78  |
| Bellefonte***      | W. Br. Susq.   | .02          | .11  | .20 |     |    | T.  | .12  | T.  |   |    |    | .06  | T.   |      |      | .13  | T.   |     |    |    | T. |     |     | .01 | .47  | .30 | T.  |     |     | T.  |      | 1.42  |
| Bethlehem          | Lehigh         | .22          | .27  | .09 |     | T. |     |      | .17 |   |    |    |      | .08  | T.   | T.   |      | .77  |     |    |    |    |     |     |     | T.   | T.  |     |     |     | .01 |      | 1.61  |
| Bloersville\|\| | Lower Susq.    | .20          |      |     |     |    |     |      |     |   |    |    |      | 1.45 |      |      | .50  | .15  |     |    |    |    | .17 |     |     |      |     |     |     | T.  |     | 2.89 |       |
| Carlisle           | Lower Susq.    | T.           | .14  | T.  |     | T. |     |      | T.  |   |    | T. |      | .33  |      |      | .38  | .11  |     |    |    |    | .03 |     |     |      | T.  |     |     |     |     |      | 0.99  |
| Catawissa\|\| | N. Br. Susq.   | .86          | .36  | .59 |     |    |     |      | .30 |   |    |    |      | .10  | .45  |      | .55  |      |     |    |    |    |     |     |     | .35  |     |     |     |     |     |      | 3.56  |
| Center Hall        | Susquehanna    |              | .26  | .62 |     |    |     | .28  | .32 |   |    |    |      | .22  |      |      | .01  | .38  |     |    |    |    |     |     |     | .44  |     |     | .28 |     |     |      | 2.81  |
| Chambersburg       | Potomac        |              | .01  |     |     | T. |     | .04  | .05 |   |    |    |      | .21  | T.   |      | .40  | .07  |     |    |    |    |     |     |     | .41  |     |     |     | T.  |     |      | 1.19  |
| Clearfield         | W. Br. Susq.   | .15          | .17  | .05 |     |    | T.  | .05  | .17 |   |    |    |      | .05  | T.   | T.   | .20  | .07  |     |    |    |    |     |     |     | .55  | .26 |     |     |     |     |      | 1.72  |
| Coatesville        | Lower Del.     | .27          | .26  |     |     |    |     | .07  | .13 |   |    |    |      | 2.33 | .08  |      | .25  | .20  |     |    |    |    |     | .20 |     | 1.05 |     |     |     |     |     |      | 4.84  |
| Colebrook          | Lower Susq.    | .03          | .06  | .09 |     |    |     | T.   | .02 |   |    |    |      | T.   | .30  | T.   | T.   | .31  | .39 |    |    |    |     |     |     | .10  |     |     |     |     | .03 |      | 1.33  |
| Conshohocken       | Schuylkill     | T.           | .12  | .62 | T.  |    |     |      | .18 |   |    |    |      | .23  | .14  |      |      | .78  |     |    |    |    |     |     |     | .62  |     |     |     |     |     |      | 2.69  |
| Cresson\|\| | Juniata        |              |      | .72 |     |    |     |      | .07 |   |    |    |      | .04  | .08  | .04  |      | .37  | .10 |    |    |    | .17 |     |     | .08  | .04 |     |     |     |     |      | 1.71  |
| Doylestown         | Lower Del.     | .20          | .50  | T.  |     |    |     |      | .15 |   |    |    |      |      | .25  |      |      | .24  |     |    |    |    |     |     |     | .05  | .09 |     |     |     |     |      | 1.48  |
| Driftwood\|\|\| | W. Br. Susq.   |              | .04  | .11 |     |    |     |      | .84 |   |    |    |      | .02  |      | .04  |      | .11  |     |    |    |    |     |     | .10 | .18  | .55 |     |     |     |     |      | 1.99  |
| Emporium.          | do.            | T.           | T.   |     |     |    | .27 | .21  | .06 |   |    |    |      | .05  | T.   | .45  | .36  |      |     |    |    |    |     |     | .10 | .52  | .15 | .40 |     |     |     |      | 2.57  |
| Ephrata            | Lower Susq.    | .14          | .30  |     |     |    | T.  | .05  |     |   |    |    | .02  | .37  | .01  |      | 1.49 | .06  |     |    |    |    |     |     |     | T.   |     |     |     | T.  |     |      | 2.44  |
| Forest City        | N. Br. Susq.   | .07          | .13  | .07 |     |    |     | .55  |     |   |    |    |      | .03  | .83  | 1.21 | .35  | .09  |     |    |    |    |     |     | .05 | .75  | .03 |     |     |     |     |      | 4.16  |
| Freeland\|\|\| | Lehigh         | .07          | .30  | .38 |     |    |     | .17  |     |   |    |    |      | T.   | .14  | .41  |      | .28  |     |    |    |    | .02 |     |     | .02  |     | .10 | .10 |     |     |      | 1.98  |
| George School      | Lower Del.     | T.           | .20  | .20 |     | T. |     | .20  |     |   |    |    |      | .11  | .26  | .41  |      | .81  |     |    |    |    |     |     |     | .02  |     |     |     |     |     |      | 1.82  |
| Gettysburg         | Potomac        | T.           | .01  |     |     |    |     | .02  | .17 |   |    |    |      | .01  | .01  |      | .43  | 1.44 |     |    |    |    |     |     |     | .17  | .17 |     |     |     |     |      | 2.26  |
| Girardville\|\|\| | Lower Susq.    | .27          | .06  | .15 |     |    |     | .38  |     |   |    |    |      | .33  | .21  |      | .41  |      |     |    |    |    |     |     |     | .07  | .02 | .03 |     |     |     |      | 1.93  |
| Gordon             | Lower Susq.    | .14          | .09  | .07 |     |    |     | .18  | .30 |   |    |    |      |      | .80  | .02  |      | .14  | .08 |    |    |    |     |     |     | .02  |     |     |     |     |     |      | 1.84  |
| Gouldsboro\|\| | Lehigh         | .04          | .51  | .24 |     |    |     | .19  |     |   |    |    |      | .14  | .26  | .45  | .02  | .18  |     |    |    |    |     |     |     | .24  | .39 |     |     | .02 |     |      | 2.68  |
| Graterford         | Schuylkill     | .07          | .03  | .18 |     |    |     | T.   | .17 |   |    |    |      |      | .11  | .42  |      | .04  | .43 |    |    |    |     |     |     | .38  |     |     |     |     |     |      | 1.66  |
| Hamburg            | Schuylkill     | .06          | 1.09 | .16 |     |    |     | .04  | .20 |   |    |    |      | T.   | .14  | .06  |      | .39  | .56 |    |    |    |     |     |     | .02  |     |     |     |     |     |      | 2.08  |
| Hanover            | Lower Susq.    |              | .01  | T.  |     |    |     | .20  |     |   |    |    |      | .14  |      |      | .39  | .56  |     |    |    |    |     |     |     | .23  |     |     |     |     |     | .01  | 1.64  |
| Harrisburg***      | do.            | 1.27         | .04  | .04 |     | T. |     | T.   | .04 |   |    |    | T.   | .28  |      |      | .89  | .01  |     |    |    |    |     | T.  |     | T.   | .32 |     |     | T.  | T.  |      | 2.89  |
| Hawley\|\|\| | Upper Del.     | .51          | .03  | T.  |     |    |     | .02  | .40 |   |    |    |      |      | .82  | .30  |      | .41  |     |    |    |    |     |     |     | .02  | .41 | T.  |     |     |     |      | 2.92  |
| Hollisterville     | Upper Del.     | .25          | .06  |     |     |    |     | .55  |     |   |    |    |      | T.   | .70  | .74  |      | .45  |     |    |    |    |     |     |     | .13  | .82 | T.  |     |     |     |      | 4.00  |
| Holtwood\|\| | Lower Susq.    |              | .50  | .30 |     |    | T.  | .20  |     |   |    |    |      |      | .12  | .02  |      | .73  |     |    |    |    |     |     |     | .20  |     |     |     |     | T.  |      | 2.07  |
| Huntingdon         | Juniata        |              | .07  | .12 |     |    |     | .01  |     |   |    |    |      |      | .15  |      | .10  | .18  |     |    |    |    |     | .05 |     |      | .02 |     | .01 |     |     | .04  | 0.71  |
| Hyndman            | Potomac        |              |      | .01 |     |    |     | .02  | .89 |   |    |    |      | .12  |      | .04  | .55  | T.   |     |    |    |    |     |     |     | .54  |     |     | .25 |     |     |      | 3.41  |
| Kylertown          | W. B. Susq.    | .51          | .84  | .68 |     |    |     | T.   | .41 |   |    |    |      |      | .03  |      | .04  | .11  |     |    |    |    |     |     |     | .05  | .43 |     |     |     |     |      | 4.20  |
| Lakeville\|\|\| | Upper Del.     | .82          | .08  | .08 |     |    |     | .47  |     |   |    |    |      | .76  |      | .90  | .45  | .89  |     |    |    |    |     |     |     | .49  |     |     |     |     |     |      | 3.00  |
| Lancaster          | Lower Susq.    | .08          | .16  |     |     |    |     | .12  |     |   |    |    |      |      | .76  |      | 1.20 | .19  |     |    |    |    |     |     |     | .49  |     |     |     |     |     |      | 3.30  |
| Lansford\|\|\| | Lehigh         |              | .54  | .14 |     |    |     | 1.35 |     |   |    |    |      | .09  |      | .61  |      | .37  |     |    |    |    |     |     |     | T.   | .26 |     |     |     |     |      | 4.28  |
| Lawrenceville.     | N. Br. Susq.   | .05          | .50  |     |     |    |     | T.   |     |   |    |    | 1.03 | .20  | 1.05 |      | .10  |      |     |    |    |    |     |     |     | .43  |     | .92 |     |     |     |      |       |
| Lebanon            | Lower Susq.    |              | .48  | .17 |     |    |     | T.   | T.  |   |    |    | T.   | 1.56 |      | T.   | .13  | .33  |     |    |    |    |     |     |     | .69  |     |     |     |     |     |      | 3.36  |
| Lewisburg          | W. Br. Susq.   | 1.03         | .22  | .10 |     |    |     | .13  | .41 |   |    |    |      | .03  |      | .88  | .01  | .03  |     |    |    |    |     |     |     | .24  | .01 | .01 |     |     |     |      | 3.10  |
| Lloyd              | do.            |              |      |     |     |    |     |      |     |   |    |    |      |      | .01  |      | .60  | .05  | .12 |    |    |    |     |     |     | .18  |     | .40 |     |     |     |      | 2.20  |
| Lock Haven         | do.            | .52          | .23  | .01 |     |    |     |      | .08 |   |    |    |      |      | .01  |      | .60  | .05  | .12 |    |    |    |     |     |     | .17  |     |     |     |     |     | .01  | 1.16  |
| Lykens.            | Susquehanna    |              | .23  | .12 |     |    |     | .05  | .02 |   |    |    |      | .18  |      | T.   | .25  | .13  |     |    |    |    |     |     |     | .17  |     | T.  |     |     |     |      | 4.36  |
| Mauch Chunk        | Lehigh         | .05          | .08  | .09 |     |    |     | .18  | .78 |   |    |    |      | .66  | .67  |      | 1.25 | .02  |     |    |    |    |     |     |     | .58  |     |     |     |     |     |      | 0.79  |
| Mifflintown        | Juniata        | T.           |      | .08 |     |    |     | .05  | .01 |   |    |    |      | .09  |      | .15  | .11  | .06  |     |    |    |    |     |     |     | .17  |     | .07 |     |     |     |      |       |
| Montrose           | N. Br. Susq.   | .63          | .60  | .10 |     |    | T.  | .33  |     |   |    |    |      | .60  | 1.40 | .35  | 2.25 |      |     |    |    |    |     |     |     | .35  |     | .40 |     |     |     |      | 7.01  |
| Morris Run         | N. Br. Susq.   | .06          | .11  |     |     |    | .08 | .08  | .17 |   |    |    |      | .30  | 1.00 | .22  | .24  | .08  |     |    |    |    |     |     |     | .48  |     | .49 |     |     |     |      | 3.31  |
| Mount Pocono       | Upper Del.     | .30          | .30  | .03 |     |    |     | .26  |     |   |    |    |      | .10  | .19  | .25  | 1.70 | .02  |     |    |    |    |     |     |     | .52  | .01 |     |     |     |     |      | 3.38  |
| Muncy Valley       | W. Br. Susq.   | .59          | .20  |     |     |    |     | .13  |     |   |    |    |      | T.   | .17  |      | .71  | .17  |     |    |    |    |     |     |     | .20  | .02 | .44 |     |     |     |      | 2.63  |
| Narberth           | Lower Del.     | T.           | .17  | .02 |     |    | .01 | .26  |     |   |    |    |      | .47  | .16  | T.   | .46  | .12  |     |    |    |    | .16 |     |     | 2.19 |     |     |     |     | T.  |      | 4.02  |
| Neshaminy\|\|\| | Lower Del.     |              | .08  | .19 |     |    |     | .18  | .18 |   |    |    |      |      | .28  |      | .40  | .07  |     |    |    |    |     |     |     | .20  | .38 |     |     |     |     |      | 1.96  |
| New Park           | Lower Susq.    | 1.21         | T.   |     |     |    |     | .13  |     |   |    |    |      | .08  | .04  |      | 1.30 |      |     |    |    |    |     |     | .15 |      |     |     |     |     |     |      | 2.91  |
| Palmerton\|\| | Lehigh         | .24          | .17  |     |     |    |     | 1.39 | .19 |   |    |    |      | .63  | .46  |      | .32  |      |     |    |    |    |     |     |     | T.   | .10 |     |     |     |     |      | 3.50  |
| Paupack\|\|\| | Upper Del.     | .17          | .18  | .05 |     |    |     | 1.53 |     |   |    |    |      | .03  | .46  | 1.00 |      | .62  |     |    |    |    |     |     |     | .09  |     | .62 |     |     |     |      | 4.75  |
| Philadelphia***    | Lower Del.     | .12          | .39  | T.  |     |    | T.  | .14  | .05 |   |    |    |      | T.   | .78  | .35  |      | .06  | .02 |    |    |    |     | T.  |     | T.   |     | .66 |     |     | T.  |      | 2.57  |
| Philadelphia-Gtn   | do.            |              | .13  |     |     |    | T.  | T.   | .02 |   |    |    |      | *    | 1.09 |      | *    | .35  |     |    |    |    |     |     | .16 |      | .36 |     |     |     | T.  |      | 2.11  |
| Phila. Navy Yard\|\|\| | do.            |              | .09  | .04 | T.  |    |     | T.   | .17 |   |    |    |      | .15  | .68  | T.   |      | .05  |     |    |    |    |     |     |     | T.   | .30 |     |     |     | T.  |      | 1.48  |
| Phila-Pnt Breeze\|\| | Lower Del.     | .12          | .08  | .01 |     |    | T.  | .06  | .16 |   |    |    |      | .34  | 1.32 | T.   | .04  | .05  |     |    |    |    |     |     |     | .49  |     |     |     |     |     |      | 2.67  |
| Phoenixville.      | Schuylkill     |              | .60  | T.  |     |    |     | .14  |     |   |    |    |      | .40  |      | .16  |      | .28  |     |    |    |    |     |     | .08 |      | .21 | .72 |     |     |     |      | 2.59  |
| Pine Grove\|\|\| | Lower Susq.    | .03          | .11  | .60 |     |    |     | .04  |     |   |    |    |      | .42  |      |      | .64  |      |     |    |    |    |     |     |     | T.   | .10 | .02 |     |     |     |      | 1.96  |
| Pleasant Mount.    | Upper Del.     | .96          | .18  |     |     |    |     | .32  |     |   |    |    |      | .38  | .51  | 1.81 | .60  |      |     |    |    |    |     |     |     | .47  | .10 |     |     |     |     |      | 5.33  |
| Pottstown          | Schuylkill     | .12          | .18  |     |     | T. |     | .09  | T.  |   |    |    | .15  | .50  |      |      | .72  | .43  |     |    |    |    | T.  |     |     | .22  |     |     |     |     |     |      | 2.41  |
| Portsville         | do.            |              | .17  | .07 |     |    |     | .42  | .10 |   |    |    |      | 1.02 |      |      | .16  | .10  |     |    |    |    |     |     |     | .01  |     |     |     |     |     |      |       |

Continued on page 44



## Daily Precipitation for September, 1930—Continued from page 43

| Stations           | Drainage Basin    | Day of month |     |      |     |   |     |      |      |   |     |     |     |     |     |     |      |     |    |    |    |     |     |     |      |      |      |     |     |     |     |      | Total |
|--------------------|-------------------|--------------|-----|------|-----|---|-----|------|------|---|-----|-----|-----|-----|-----|-----|------|-----|----|----|----|-----|-----|-----|------|------|------|-----|-----|-----|-----|------|-------|
|                    |                   | 1            | 2   | 3    | 4   | 5 | 6   | 7    | 8    | 9 | 10  | 11  | 12  | 13  | 14  | 15  | 16   | 17  | 18 | 19 | 20 | 21  | 22  | 23  | 24   | 25   | 26   | 27  | 28  | 29  | 30  | 31   |       |
| Ohio Drainage.     |                   |              |     |      |     |   |     |      |      |   |     |     |     |     |     |     |      |     |    |    |    |     |     |     |      |      |      |     |     |     |     |      |       |
| Beaver Dam\|\|\| | Ohio.....         | .08          | .05 | .16  |     |   | T.  | .01  |      |   |     |     |     |     | .11 |     | .34  | T.  |    |    |    |     |     | .15 |      | .42  |      | .50 |     |     |     |      | 1.82  |
| Beaver Falls\|\|\| | Beaver.....       | .10          | .02 | T.   |     |   |     | .03  |      |   |     |     |     |     | .06 |     | .17  | T.  |    |    |    |     | .05 | .09 |      | .13  |      | .30 |     |     | T.  |      | 0.95  |
| Bradford.....      | Allegheny.....    | .12          | .12 |      |     |   |     |      | T.   |   |     |     |     | T.  |     | .23 | .28  | .62 |    |    |    |     |     |     | .42  | .52  | .16  |     |     |     | T.  |      | 2.47  |
| Brookville.....    | do.....           | T.           | .15 |      |     |   |     | .32  |      |   |     |     | T.  |     |     | .03 | .29  |     |    |    |    |     |     |     | .21  | .35  | .20  |     |     |     |     |      | 1.55  |
| Butler.....        | Ohio.....         | .22          |     |      |     |   |     | .47  | .16  |   |     |     |     | T.  |     | .05 | T.   |     |    |    |    |     | T.  |     | .30  | .68  | .41  |     |     |     | T.  |      | 2.29  |
| Chambersville..... | Allegheny.....    | .04          | .06 | 1.12 |     |   |     | .20  | .06  |   |     |     |     | T.  |     |     | .58  | .05 |    |    |    |     | .31 |     | .08  | .10  |      | .24 |     |     | T.  | .01  | 2.80  |
| Claysville.....    | Ohio.....         |              |     | .84  |     |   |     | T    | 1.02 |   |     |     | .04 | .04 |     | T.  | .30  |     |    |    |    |     | .04 | .01 | .41  |      | .02  | .03 |     |     |     |      | 2.75  |
| Cloeff.....        | Allegheny.....    |              | .11 |      |     |   | .03 | .42  |      |   |     |     |     |     | .22 |     | .16  |     |    |    |    |     |     |     | .11  | .61  | .15  |     |     |     |     |      | 1.81  |
| Clymer\|\|\| | Conemaugh.....    | 1.24         | .24 |      | .15 |   | .07 |      |      |   |     |     |     |     | .10 |     | .30  |     |    |    |    |     | .38 |     |      |      | .30  |     |     |     |     |      | 2.78  |
| Confluence\|\|\| | Youghiogheny..... |              | .12 | T.   |     |   |     | 1.13 | T.   |   |     |     |     | .15 |     |     |      | .63 |    |    |    |     |     |     |      |      |      | .45 |     |     |     |      | 2.48  |
| Coraopolis\|\|\| | Ohio.....         |              |     |      |     |   |     |      |      |   |     |     |     |     |     |     |      |     |    |    |    |     |     |     |      |      |      |     |     |     |     |      |       |
| Corry.....         | Allegheny.....    |              |     |      |     |   |     |      |      |   |     |     |     |     | .07 |     | .28  | .22 |    |    |    |     |     |     | .95  | .47  | .02  | .08 |     |     | .04 |      | 2.13  |
| Coudersport.....   | Allegheny.....    | .05          | .26 |      |     |   |     | .10  |      |   |     |     | .08 | .04 | .21 | .29 | .38  |     |    |    |    |     |     |     |      | .50  | .88  |     |     |     |     |      | 2.79  |
| Derry.....         | Conemaugh.....    | T.           |     | 1.21 |     |   |     | .31  |      |   |     | .06 | .57 | .04 | .67 | .05 |      |     |    |    |    | T.  |     | .18 |      |      | .06  |     |     |     |     |      | 3.15  |
| Donora\|\|\| | Monongahela.....  |              | .32 |      |     |   |     | .27  |      |   |     | .06 | .10 | .18 | T.  | .89 |      |     |    |    |    | .02 | .18 | .10 |      | .10  |      |     |     | T.  |     | 2.22 |       |
| Ebensburg.....     | Conemaugh.....    | .16          |     | .80  |     |   |     |      |      |   |     | .04 | .13 | .37 |     | .35 | .29  |     |    |    |    | .33 |     |     |      | .20  |      | .16 |     |     | .02 |      | 2.85  |
| Elk Lick.....      | Youghiogheny..... |              | .18 |      |     |   |     | .73  |      |   |     |     |     |     |     | .51 |      |     |    |    |    |     |     |     |      | .08  |      |     |     |     |     |      | 1.50  |
| Falls Creek.....   | Allegheny.....    | .02          |     |      |     |   |     | .22  |      |   |     | .02 | .25 |     |     | .19 |      |     |    |    |    |     |     |     |      | .46  | .12  | .31 |     |     | .02 |      | 1.61  |
| Franklin\|\|\| | Allegheny.....    | .19          | .11 | .03  |     |   |     | .08  |      |   |     | .02 |     |     |     | .09 | .05  |     |    |    |    |     |     |     |      | .21  | .25  | .03 |     |     |     |      | 1.06  |
| Freeport\|\|\| | do.....           | .02          | .07 | .18  |     |   |     | .13  | .01  |   |     | .01 |     | T.  | T.  |     | .07  | .12 |    |    |    |     | .14 | .07 |      | .18  | .02  | .05 |     |     | T.  |      | 1.07  |
| Greensboro.....    | Monongahela.....  |              |     | .11  |     |   |     | .37  |      |   |     |     |     | .18 | T.  |     | .46  |     |    |    |    |     |     |     |      | .11  |      | .10 |     |     |     |      | 1.33  |
| Greensburg.....    | Youghiogheny..... | .06          |     | .79  |     |   |     | T.   | .22  |   |     | .38 | .15 |     |     | T.  | .47  | .02 |    |    |    | .09 | .01 | T.  | .03  |      | .17  |     |     | .01 |     | 2.40 |       |
| Greenville.....    | Beaver.....       | .16          | .09 |      |     |   |     | .09  |      |   |     |     |     |     |     | .17 | .40  | .54 |    |    |    |     |     |     | .09  | .35  | .15  | .14 |     |     |     |      | 2.18  |
| Grove City.....    | do.....           | .20          | .23 |      |     |   | T.  | .12  |      |   |     | .29 | T.  |     |     | T.  | .23  |     |    |    |    |     |     | T.  |      | .45  |      | .02 |     |     |     |      | 1.54  |
| Herr's Isl. Dam\|\|\| | Ohio.....         | T.           |     | .10  |     |   |     | T.   | .10  |   |     |     | .09 | T.  |     |     | .17  | .02 |    |    |    |     |     | .07 |      | .09  | T.   |     | T.  |     | T.  |      | 0.64  |
| Ingram.....        | do.....           | .01          |     | .38  |     |   |     | T.   | .12  |   |     |     | .24 | .03 |     | .10 | .02  |     |    |    |    |     | T.  | .03 | .18  | .01  |      | .02 |     |     | T.  |      | 1.14  |
| Irwin.....         | Youghiogheny..... |              | .76 |      |     |   |     | .16  |      |   |     | .04 | .10 |     |     | .42 | .05  |     |    |    |    | .03 | .01 | T.  | .01  | T.   | .03  |     |     |     |     |      | 1.61  |
| Johnstown.....     | Conemaugh.....    | T.           |     | .43  |     |   |     | T.   | .20  |   |     |     | .66 | T.  | T.  | .48 | .05  |     |    |    |    | .15 | .02 |     | .01  | .29  | .03  |     |     | T.  | .01 |      | 2.33  |
| Kregar\|\|\| | Youghiogheny..... |              | .35 |      |     |   |     | .71  |      |   |     | .04 | .59 |     |     | .99 |      |     |    |    |    | .10 | .03 | .02 | .03  | .27  |      |     |     | .02 |     |      | 3.15  |
| Lock No. 4\|\|\| | Monongahela.....  |              | .26 |      |     |   |     | .37  |      |   |     | .07 | .12 | T.  |     |     | 1.02 |     |    |    |    | T.  | .03 |     | .15  |      | .16  |     |     | .01 |     | 2.19 |       |
| Lycippus.....      | Conemaugh.....    |              | .58 |      |     |   |     | 1.19 |      |   | .14 |     | .05 |     | T.  | .50 | .03  |     |    |    |    | T.  |     | .37 |      |      |      | .27 |     |     |     |      | 3.13  |
| Meadville.....     | Allegheny.....    | .70          | .02 |      |     |   |     |      |      |   |     |     |     | .58 | .23 | .26 | .29  |     |    |    |    |     |     | .17 | .34  | .38  | .12  |     |     |     |     |      | 3.09  |
| Mount Lebanon..... | Ohio.....         |              | .19 |      | .19 |   |     | T.   | .26  |   |     | .09 | .02 |     |     | .33 |      |     |    |    |    | .02 | .15 | .18 | .01  | .02  | .01  |     |     | T.  |     |      | 1.28  |
| New Castle\|\|\| | Beaver.....       | .19          | .20 | .02  |     |   |     | .57  | .28  |   | .01 |     |     |     |     | .08 | .12  |     |    |    |    |     | .08 | .01 | .36  | .03  | .02  |     |     |     |     |      | 1.97  |
| Newell.....        | Monongahela.....  |              | .40 |      |     |   |     | 1.07 |      |   |     | .17 | .64 |     |     | .72 |      |     |    |    |    |     |     | .18 |      |      | .24  |     |     |     |     |      | 3.42  |
| Parkers Landing\|\|\| | Allegheny.....    | .07          | T.  | .03  |     |   |     | .05  | .48  |   |     |     |     | T.  |     |     | .23  | T.  |    |    |    |     |     |     | .24  | .33  | .42  |     |     |     |     |      | 1.85  |
| Pennline\|\|\| | Beaver.....       | .40          | .20 |      |     |   |     | T.   | T.   |   |     |     |     |     | .40 | .50 | .54  |     |    |    |    |     |     |     | .30  | .70  | .73  |     |     |     |     |      | 3.77  |
| Pittsburgh***      | Ohio.....         | T.           | .08 | .13  |     |   | T.  | T.   | .12  |   |     | .08 | T.  |     | .16 | .02 |      |     |    |    |    | .04 | T.  | .10 | T.   | .01  |      |     |     | T.  |     |      | 0.74  |
| Ridgway.....       | Allegheny.....    | T.           | .04 | .05  |     |   |     | .08  | .07  |   |     |     | .22 |     |     |     | .62  |     |    |    |    |     |     |     | .13  | .31  | .88  |     |     |     |     |      | 2.40  |
| Saltsburg\|\|\| | Conemaugh.....    | .01          | .05 | .32  |     |   |     | .16  |      |   |     | T.  | .09 | .09 |     | T.  | .53  |     |    |    |    | .03 | .23 |     | .06  | .08  | .09  |     |     | .02 |     |      | 1.76  |
| Sharon\|\|\| | Beaver.....       | .21          | .12 | T.   |     |   |     | .10  | .03  |   |     |     |     |     |     | .23 | .18  |     |    |    |    |     |     |     | .29  | .10  | .05  |     |     |     |     |      | 1.31  |
| Somerset.....      | Youghiogheny..... | .02          |     | .14  |     |   |     | .01  | .73  |   |     | .07 | .39 |     |     | .31 | .62  |     |    |    |    | .01 | .01 | T.  | .01  |      | .18  |     |     | .02 |     |      | 2.52  |
| Springdale\|\|\| | Allegheny.....    | .02          | .01 | .16  |     |   |     | .01  | .15  |   |     | .04 | .01 | .06 |     | .04 | .19  |     |    |    |    | .03 | .03 |     | .26  | .02  | .02  |     |     | .01 |     |      | 1.06  |
| Uniontown.....     | Monongahela.....  |              | .01 | .30  |     |   |     | 1.61 |      |   |     | .13 | .04 |     |     | .51 | .05  |     |    |    |    | .02 |     | .09 | .03  | .01  | .07  |     |     | .03 |     |      | 2.89  |
| Unity Reservoir\|\|\| | Youghiogheny..... | .07          |     | .61  |     |   |     | T.   | .36  |   |     | .43 | .37 |     |     | .58 | .03  |     |    |    |    | .14 | T.  | .08 | .03  |      | .18  |     |     |     |     |      | 2.88  |
| Vandergrift\|\|\| | Conemaugh.....    |              | .02 | .33  |     |   |     |      |      |   |     |     |     |     | .19 | .31 |      |     |    |    |    | .02 | .01 | .21 | .12  | .06  |      |     |     |     |     |      | 1.27  |
| Warren.....        | Allegheny.....    | .25          |     |      |     |   |     | .10  |      |   |     |     | .03 |     |     | .20 | .20  | .33 |    |    |    |     |     |     | .30  | .76  | .55  |     |     |     |     |      | 2.72  |
| Westford\|\|\| | Beaver.....       | .10          |     |      |     |   |     |      |      |   |     |     |     |     | .80 | .45 | .15  |     |    |    |    |     |     |     | 1.50 | .50  | 1.00 |     |     |     |     |      | 4.50  |
| West Newton\|\|\| | Youghiogheny..... | T.           |     | .72  |     |   |     | .38  |      |   |     | .05 | .11 | .18 |     |     | 1.01 |     |    |    |    |     |     | .30 |      | .05  |      | .19 |     |     | T.  |      | 2.99  |
| Zellenople.....    | Ohio.....         |              |     |      |     |   |     |      |      |   |     |     |     |     |     |     |      |     |    |    |    | .52 | .24 | .16 | .29  |      |      |     |     |     |     | 1.21 |       |
| Lake Drainage.     |                   |              |     |      |     |   |     |      |      |   |     |     |     |     |     |     |      |     |    |    |    |     |     |     |      |      |      |     |     |     |     |      |       |
| Erie***            | Lake Erie.....    | .14          | .08 |      |     |   |     | .39  |      |   |     |     |     | T.  |     | T.  | 1.38 |     |    |    |    |     |     |     | .24  | .27  | .11  |     | .02 | T.  |     | .01  | 2.64  |
| Genesee.....       | do.....           | .18          | .37 |      |     |   |     |      |      |   |     |     |     | .17 | .08 | .18 | .01  | .18 |    |    |    |     |     |     | T.   | 1.09 |      | .34 |     |     |     |      | 2.60  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah. ‡ Mdt. to mdt.



CLIMATOLOGICAL DATA: PENNSYLVANIA SECTION.

Daily Temperatures for September, 1930

| Stations          | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15    | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30    | 31    | Mean              |      |
|-------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------------------|------|
| Allentown.....    | Maximum..... | 79 | 90 | 85 | 78 | 75 | 87 | 82 | 75 | 75 | 81 | 82 | 77 | 82 | 88    | 91 | 81 | 78 | 75 | 81 | 82 | 83 | 80 | 81 | 87 | 87 | 75 | 74 | 70 | 63    | ..... | 80.0              |      |
|                   | Minimum..... | 63 | 69 | 67 | 53 | 52 | 53 | 64 | 62 | 48 | 49 | 53 | 53 | 63 | 60    | 65 | 67 | 63 | 55 | 52 | 49 | 50 | 59 | 54 | 50 | 51 | 65 | 64 | 45 | 44    | ..... | 56.2              |      |
| Altoona.....      | Maximum..... | 88 | 90 | 84 | 80 | 79 | 86 | 79 | 75 | 77 | 78 | 88 | 78 | 78 | 88    | 89 | 81 | 76 | 74 | 79 | 84 | 78 | 82 | 87 | 84 | 84 | 88 | 80 | 69 | 67    | 58    | .....             | 80.3 |
|                   | Minimum..... | 65 | 68 | 65 | 48 | 51 | 55 | 58 | 58 | 43 | 46 | 50 | 57 | 63 | 62    | 62 | 60 | 48 | 47 | 48 | 52 | 54 | 57 | 55 | 65 | 65 | 46 | 42 | 39 | 35    | ..... | 54.2              |      |
| Beaver Dam.....   | Maximum..... | 82 | 90 | 90 | 79 | 79 | 86 | 85 | 90 | 79 | 78 | 87 | 87 | 85 | 86    | 97 | 79 | 75 | 88 | 82 | 82 | 81 | 85 | 82 | 95 | 81 | 81 | 79 | 67 | 65    | 58    | .....             | 82.0 |
|                   | Minimum..... | 63 | 65 | 63 | 50 | 49 | 56 | 59 | 59 | 47 | 43 | 47 | 62 | 64 | 63    | 65 | 66 | 61 | 46 | 45 | 43 | 56 | 51 | 58 | 62 | 66 | 67 | 49 | 45 | 39    | 39    | .....             | 55.3 |
| Bellefonte.....   | Maximum..... | 89 | 89 | 80 | 80 | 81 | 89 | 76 | 74 | 79 | 80 | 86 | 82 | 84 | 92    | 93 | 82 | 78 | 76 | 82 | 85 | 80 | 86 | 86 | 90 | 81 | 88 | 68 | 68 | 65    | 57    | .....             | 80.9 |
|                   | Minimum..... | 65 | 64 | 53 | 44 | 54 | 53 | 56 | 50 | 39 | 44 | 48 | 57 | 65 | 61    | 58 | 61 | 53 | 48 | 42 | 42 | 52 | 48 | 43 | 48 | 62 | 61 | 45 | 39 | 37    | 33    | .....             | 50.8 |
| Brookville.....   | Maximum..... | 87 | 89 | 79 | 81 | 84 | 87 | 91 | 77 | 82 | 82 | 87 | 80 | 83 | ..... | 50 | 80 | 77 | 76 | 82 | 84 | 78 | 86 | 87 | 86 | 75 | 85 | 65 | 65 | 65    | ..... | 81.1 <sup>b</sup> |      |
|                   | Minimum..... | 61 | 59 | 41 | 39 | 42 | 48 | 48 | 41 | 37 | 36 | 37 | 52 | 60 | ..... | 56 | 59 | 40 | 37 | 44 | 38 | 41 | 40 | 38 | 47 | 61 | 50 | 40 | 37 | 30    | ..... | 45.0 <sup>b</sup> |      |
| Butler.....       | Maximum..... | 87 | 89 | 80 | 84 | 85 | 83 | 81 | 83 | 84 | 89 | 86 | 85 | 89 | 88    | 87 | 77 | 83 | 84 | 85 | 79 | 85 | 89 | 87 | 87 | 87 | 85 | 65 | 63 | 56    | ..... | 82.6              |      |
|                   | Minimum..... | 61 | 59 | 41 | 39 | 42 | 48 | 48 | 41 | 37 | 36 | 37 | 52 | 60 | ..... | 56 | 59 | 40 | 37 | 44 | 38 | 41 | 40 | 38 | 47 | 61 | 50 | 40 | 37 | 30    | ..... | 50.5              |      |
| Carlisle.....     | Maximum..... | 87 | 89 | 80 | 84 | 85 | 83 | 81 | 83 | 84 | 89 | 86 | 85 | 89 | 88    | 87 | 77 | 83 | 84 | 85 | 79 | 85 | 89 | 87 | 87 | 87 | 85 | 65 | 63 | 56    | ..... | 87.4              |      |
|                   | Minimum..... | 55 | 57 | 63 | 36 | 47 | 57 | 57 | 55 | 42 | 39 | 42 | 58 | 63 | 60    | 59 | 63 | 60 | 42 | 38 | 43 | 47 | 53 | 52 | 53 | 65 | 53 | 46 | 44 | 34    | ..... | 55.1              |      |
| Catawissa.....    | Maximum..... | 95 | 98 | 91 | 88 | 82 | 94 | 89 | 84 | 85 | 86 | 90 | 85 | 87 | 95    | 92 | 84 | 80 | 79 | 88 | 88 | 90 | 93 | 90 | 93 | 95 | 91 | 80 | 77 | 68    | ..... | 84.1              |      |
|                   | Minimum..... | 67 | 67 | 67 | 46 | 51 | 59 | 60 | 59 | 41 | 45 | 50 | 55 | 68 | 67    | 65 | 64 | 65 | 48 | 50 | 45 | 55 | 55 | 57 | 53 | 66 | 68 | 57 | 39 | 35    | 38    | .....             | 54.7 |
| Chambersburg..... | Maximum..... | 89 | 94 | 86 | 83 | 78 | 89 | 83 | 81 | 82 | 84 | 88 | 84 | 84 | 91    | 93 | 91 | 83 | 79 | 82 | 87 | 83 | 87 | 85 | 87 | 89 | 88 | 83 | 76 | 70    | ..... | 85.4              |      |
|                   | Minimum..... | 64 | 65 | 64 | 46 | 49 | 56 | 58 | 55 | 42 | 47 | 52 | 59 | 67 | 69    | 63 | 67 | 65 | 50 | 47 | 45 | 59 | 62 | 47 | 47 | 65 | 61 | 51 | 43 | 39    | 36    | .....             | 57.0 |
| Claysville.....   | Maximum..... | 95 | 96 | 94 | 84 | 81 | 92 | 89 | 78 | 79 | 85 | 87 | 81 | 84 | 91    | 95 | 90 | 77 | 76 | 82 | 78 | 77 | 84 | 81 | 91 | 90 | 89 | 91 | 86 | 78    | 75    | .....             | 84.4 |
|                   | Minimum..... | 65 | 66 | 67 | 47 | 52 | 61 | 57 | 61 | 47 | 48 | 52 | 57 | 68 | 65    | 65 | 63 | 64 | 53 | 50 | 47 | 59 | 55 | 61 | 58 | 68 | 66 | 56 | 46 | 38    | 48    | .....             | 57.0 |
| Clearfield.....   | Maximum..... | 96 | 97 | 90 | 87 | 85 | 89 | 84 | 79 | 84 | 84 | 91 | 83 | 90 | 91    | 83 | 78 | 80 | 86 | 84 | 80 | 86 | 91 | 92 | 85 | 90 | 75 | 70 | 70 | 70    | ..... | 84.0              |      |
|                   | Minimum..... | 65 | 67 | 62 | 45 | 47 | 55 | 58 | 57 | 46 | 42 | 48 | 63 | 65 | 63    | 64 | 62 | 66 | 60 | 41 | 44 | 47 | 51 | 55 | 58 | 57 | 67 | 46 | 47 | 34    | ..... | 54.0              |      |
| Coatesville.....  | Maximum..... | 88 | 81 | 80 | 86 | 87 | 88 | 77 | 85 | 85 | 87 | 92 | 88 | 87 | 94    | 85 | 82 | 87 | 88 | 86 | 88 | 89 | 88 | 94 | 85 | 88 | 93 | 86 | 78 | 64    | ..... | 86.0              |      |
|                   | Minimum..... | 62 | 53 | 62 | 42 | 45 | 48 | 50 | 53 | 38 | 40 | 42 | 54 | 63 | 62    | 59 | 62 | 58 | 40 | 40 | 40 | 57 | 44 | 40 | 48 | 63 | 58 | 36 | 35 | 30    | ..... | 48.5              |      |
| Corry.....        | Maximum..... | 90 | 93 | 87 | 80 | 80 | 87 | 84 | 75 | 79 | 80 | 82 | 83 | 79 | 84    | 88 | 90 | 82 | 72 | 73 | 81 | 82 | 84 | 81 | 84 | 87 | 86 | 74 | 76 | 68    | ..... | 81.2              |      |
|                   | Minimum..... | 68 | 69 | 66 | 50 | 53 | 65 | 59 | 46 | 51 | 53 | 62 | 66 | 68 | ..... | 70 | 68 | 77 | 72 | 82 | 82 | 78 | 82 | 81 | 81 | 77 | 84 | 77 | 61 | 62    | ..... | 59.2              |      |
| Emporium.....     | Maximum..... | 87 | 88 | 78 | 77 | 83 | 84 | 79 | 73 | 75 | 78 | 85 | 81 | 83 | 88    | 88 | 78 | 75 | 73 | 77 | 82 | 76 | 81 | 81 | 85 | 75 | 83 | 70 | 61 | 62    | ..... | 77.9              |      |
|                   | Minimum..... | 64 | 65 | 58 | 40 | 40 | 50 | 53 | 54 | 39 | 40 | 38 | 49 | 65 | 63    | 62 | 64 | 56 | 40 | 43 | 40 | 55 | 40 | 41 | 45 | 65 | 63 | 47 | 40 | 35    | ..... | 49.6              |      |
| Erie.....         | Maximum..... | 84 | 87 | 74 | 72 | 76 | 75 | 70 | 69 | 69 | 72 | 80 | 81 | 80 | 85    | 85 | 77 | 70 | 68 | 80 | 74 | 70 | 74 | 76 | 79 | 75 | 85 | 63 | 57 | 58    | ..... | 74.0              |      |
|                   | Minimum..... | 68 | 72 | 62 | 55 | 58 | 64 | 58 | 57 | 50 | 52 | 54 | 65 | 67 | 71    | 70 | 65 | 60 | 58 | 54 | 60 | 53 | 57 | 55 | 66 | 68 | 57 | 50 | 52 | 45    | ..... | 59.1              |      |
| Franklin.....     | Maximum..... | 84 | 90 | 81 | 86 | 85 | 89 | 81 | 79 | 87 | 83 | 94 | 85 | 90 | 92    | 92 | 79 | 80 | 79 | 85 | 87 | 80 | 86 | 90 | 86 | 77 | 87 | 68 | 67 | 66    | ..... | 82.4              |      |
|                   | Minimum..... | 62 | 65 | 53 | 49 | 45 | 46 | 45 | 42 | 39 | 38 | 38 | 45 | 56 | 49    | 64 | 59 | 59 | 42 | 39 | 40 | 48 | 43 | 43 | 45 | 55 | 65 | 46 | 40 | 32    | ..... | 47.5              |      |
| Freeland.....     | Maximum..... | 82 | 86 | 78 | 73 | 69 | 81 | 80 | 70 | 72 | 74 | 78 | 77 | 72 | 77    | 83 | 86 | 76 | 70 | 74 | 79 | 78 | 78 | 76 | 81 | 82 | 82 | 74 | 67 | 62    | ..... | 75.7              |      |
|                   | Minimum..... | 64 | 66 | 64 | 53 | 53 | 60 | 57 | 50 | 45 | 50 | 54 | 61 | 65 | 65    | 62 | 62 | 50 | 51 | 56 | 59 | 57 | 58 | 60 | 66 | 63 | 50 | 49 | 40 | 39    | ..... | 56.4              |      |
| Genesee.....      | Maximum..... | 64 | 66 | 64 | 53 | 53 | 60 | 57 | 50 | 45 | 50 | 54 | 61 | 65 | 65    | 62 | 60 | 57 | 56 | 59 | 57 | 58 | 60 | 66 | 63 | 50 | 49 | 40 | 39 | ..... | 76.3  |                   |      |
|                   | Minimum..... | 63 | 66 | 65 | 53 | 52 | 72 | 72 | 72 | 74 | 84 | 85 | 80 | 88 | 85    | 80 | 75 | 69 | 67 | 84 | 74 | 81 | 77 | 85 | 72 | 82 | 78 | 59 | 58 | 52    | ..... | 46.9              |      |
| Gettysburg.....   | Maximum..... | 83 | 86 | 75 | 75 | 82 | 82 | 72 | 72 | 74 | 84 | 85 | 80 | 83 | 82    | 80 | 75 | 69 | 67 | 84 | 74 | 81 | 77 | 85 | 72 | 82 | 78 | 59 | 58 | 52    | ..... | 84.1              |      |
|                   | Minimum..... | 63 | 60 | 60 | 38 | 40 | 47 | 50 | 63 | 30 | 33 | 32 | 42 | 60 | 57    | 55 | 57 | 54 | 49 | 32 | 45 | 50 | 35 | 34 | 41 | 62 | 61 | 47 | 42 | 33    | ..... | 60.6              |      |
| Greensburg.....   | Maximum..... | 97 | 95 | 93 | 83 | 80 | 91 | 84 | 74 | 77 | 82 | 86 | 80 | 82 | 86    | 61 | 70 | 69 | 68 | 65 | 55 | 53 | 50 | 63 | 60 | 65 | 59 | 68 | 69 | 50    | ..... | 82.9              |      |
|                   | Minimum..... | 72 | 69 | 70 | 54 | 52 | 65 | 64 | 62 | 51 | 51 | 56 | 61 | 70 | 69    | 68 | 65 | 55 | 53 | 50 | 63 | 60 | 65 | 59 | 68 | 68 | 69 | 50 | 44 | 48    | ..... | 56.1              |      |
| Grove City.....   | Maximum..... | 94 | 94 | 86 | 83 | 82 | 90 | 85 | 81 | 82 | 83 | 89 | 80 | 83 | 80    | 83 | 80 | 78 | 75 | 75 | 81 | 84 | 76 | 82 | 86 | 85 | 77 | 85 | 77 | 68    | ..... | 79.1              |      |
|                   | Minimum..... | 65 | 68 | 65 | 50 | 58 | 60 | 60 | 60 | 49 | 51 | 65 | 68 | 65 | 63    | 64 | 60 | 46 | 48 | 51 | 53 | 60 | 61 | 60 | 65 | 65 | 40 | 39 | 39 | ..... | 53.0  |                   |      |
| Hamburg.....      | Maximum..... | 81 | 86 | 82 | 77 | 82 | 84 | 77 | 78 | 76 | 77 | 85 | 80 | 84 | 89    | 88 | 81 | 66 | 68 | 59 | 43 | 42 | 50 | 52 | 48 | 48 | 56 | 66 | 47 | 45    | ..... | 82.0              |      |
|                   | Minimum..... | 63 | 65 | 61 | 48 | 48 | 60 | 55 | 54 | 48 | 43 | 45 | 59 | 64 | 61    | 66 | 68 | 59 | 43 | 42 | 82 | 83 | 84 | 88 | 86 | 86 | 73 | 70 | 69 | ..... | 54.0  |                   |      |
| Harrisburg.....   | Maximum..... | 85 | 91 | 91 | 82 | 86 | 85 | 80 | 78 | 75 | 82 | 82 | 82 | 74 | 84    | 88 | 80 | 85 | 76 | 70 | 88 | 80 | 76 | 75 | 82 | 83 | 87 | 85 | 86 | 88    | ..... | 81.9              |      |
|                   | Minimum..... | 60 | 67 | 60 | 51 | 56 | 54 | 53 | 55 | 48 | 43 | 52 | 57 | 64 | 64    | 62 | 65 | 63 | 47 | 45 | 46 | 52 | 53 | 47 | 50 | 65 | 61 | 57 | 41 | 38    | ..... | 61.6              |      |
| Hawley.....       | Maximum..... | 87 | 88 | 86 | 82 | 78 | 89 | 81 | 77 | 79 | 81 | 84 | 81 | 88 | 82    | 90 | 88 | 80 | 76 | 75 | 82 | 83 | 87 | 85 | 86 | 88 | 89 | 78 | 75 | 73    | ..... | 77.1              |      |
|                   | Minimum..... | 67 | 68 | 64 | 56 | 57 | 64 | 67 | 59 | 51 | 55 | 58 | 66 | 69 | 68    | 68 | 66 | 58 | 56 | 55 | 63 | 64 | 64 | 60 | 70 | 71 | 59 | 54 | 50 | 52    | ..... | 50.0              |      |
| Huntingdon.....   | Maximum..... | 81 | 87 | 84 | 74 | 74 | 85 | 78 | 74 | 72 | 72 | 78 | 82 | 74 | 79    | 84 | 86 | 79 | 71 | 75 | 81 | 75 | 81 | 89 | 82 | 87 | 91 | 91 | 88 | 83    | ..... | 85.5 <sup>b</sup> |      |
|                   | Minimum..... | 63 | 65 | 61 | 45 | 39 | 51 | 52 | 53 | 36 | 43 | 44 | 50 | 59 | 65    | 59 | 63 | 61 | 46 | 41 | 42 | 54 | 47 | 43 | 40 | 62 | 59 | 53 | 38 | 34    | ..... | 51.9 <sup>b</sup> |      |
| Johnstown.....    | Maximum..... | 96 | 84 | 85 | 84 | 80 | 86 | 80 | 83 | 85 | 90 | 86 | 88 | 94 | 95    | 84 | 81 | 79 | 83 | 8  |    |    |    |    |    |    |    |    |    |       |       |                   |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. OCTOBER, 1930. No. 10

## GENERAL SUMMARY.

Temperatures were mostly seasonable, and the comparatively small accumulated departure was on the low side. Frosts and freezing were general at the end of the third and beginning of the fourth weeks, and truck crops and other tender vegetation were nipped. Local freezing had occurred in the mountain districts and the northern counties earlier in the season. The rainfall was less than one-third of the October normal, and the drought which had steadily accumulated during the summer and early autumn was further intensified. At the end of the month the accumulated deficiencies ranged from 20 to 35 percent of the normal rainfall for the season to date. Most of the deficiency accumulated during the growing season, and the chief damage to crops occurred before the October shortage merged into the problem. However, the October shortage seriously affected the winter grains and the water supply. In normal years, most of the winter grain in Pennsylvania is seeded during the last ten days of September, but this season the ground was too dry and hard and seeding was delayed. There was almost no rain during the first half of October, and the soil condition became worse instead of better. Moderate rains were fairly general from the 15th to 18th inclusive, and put the top soil temporarily in fair condition. Some seeding was done after this time. The result was that earlier sown fields came up spotted, while the grain that came up late in the month was not in a fair way to become well rooted for winter. At the end of the month the water supply was extremely low. Many small streams and shallow wells were dry, and storage reservoirs were the lowest for many years. The month was free from severe local storms, and weather in general was highly favorable for outdoor work of all kinds.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 90 stations, was 50.8°, a deficiency of 1.6° as compared with the October normal. The highest monthly mean was 57.4°, at Holtwood, and the lowest, 43.8° at Elk Lick. Extremes for the month ranged from a maximum of 93°, at Brookville on the 15th, to a minimum of 9°, at Somerset on the 22d. The greatest daily range of temperature was 54°, at Brookville on the 15th.

## PRECIPITATION.

The average precipitation for the State, as determined by the reports from 136 well distributed stations, was 0.99 inch, which is 2.19 inches less than the monthly normal. The greatest monthly amount was 3.33 inches, at Westford, while the lowest, 0.11 inch, was reported from Harrisburg (Weather Bureau). The greatest amount recorded in any 24 consecutive hours was 1.31 inches, at Meadville on the 8-9th. The monthly average snowfall was 0.2 inch, which is 0.1 inch above the normal. The greatest monthly snowfall occurred at Erie and was 4.6 inches, from which place also was reported the greatest 24-hour fall of 3.2 inches, which occurred on the 18-19th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           | Date      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 119.3                   | 343.1                    | 35                     | 71               | 68       | 73      | 8.156                    | 11.0                        | 38        | sw.       |
| Harrisburg.....   | 245.0                   | 345.2                    | 71                     | 76               | 46       | 53      | 3.650                    | 4.9                         | 24        | sw.       |
| Philadelphia..... | 278.8                   | 345.2                    | 81                     | 69               | 48       | 54      | 8.187                    | 11.0                        | 46        | nw.       |
| Pittsburgh.....   | 211.1                   | 344.1                    | 61                     | 79               | 50       | 58      | 5.477                    | 7.4                         | 30        | w.        |
| Reading.....      | 195.1                   | 345.2                    | 57                     | 76               | 48       | 59      | 3.030                    | 4.1                         | 26        | w.        |
| Scranton.....     | 239.6                   | 344.1                    | 70                     | 83               | 51       | 61      | 3.586                    | 4.8                         | 26        | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR OCTOBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 46.3        | 74      | 19     | 4.02          | 9.13     | 2.04  | 9           | 6             | 16     | 16                     |
| 1889..... | 47.3        | 83      | 13     | 3.85          | 8.61     | 1.88  | 8           | 8             | 14     | 10                     |
| 1890..... | 50.9        | 81      | 21     | 5.87          | 8.41     | 4.03  | 6           | 8             | 17     | 15                     |
| 1891..... | 50.6        | 91      | 15     | 3.06          | 4.46     | 0.84  | 11          | 9             | 11     | 8                      |
| 1892..... | 50.8        | 83      | 16     | 0.72          | 2.93     | 0.00  | 13          | 11            | 7      | 6                      |
| 1893..... | 53.0        | 91      | 17     | 3.26          | 6.58     | 1.18  | 14          | 8             | 9      | 8                      |
| 1894..... | 53.6        | 88      | 24     | 4.26          | 7.66     | 0.65  | 12          | 8             | 11     | 9                      |
| 1895..... | 47.3        | 76      | 17     | 1.99          | 4.63     | 0.45  | 17          | 8             | 5      | 5                      |
| 1896..... | 48.9        | 86      | 18     | 3.19          | 5.70     | 0.94  | 11          | 8             | 12     | 5                      |
| 1897..... | 54.2        | 95      | 16     | 1.32          | 5.93     | T.    | 14          | 8             | 9      | 12                     |
| 1898..... | 53.8        | 92      | 20     | 5.20          | 8.62     | 2.36  | 11          | 7             | 13     | 12                     |
| 1899..... | 54.6        | 94      | 15     | 1.55          | 3.81     | 0.53  | 13          | 8             | 10     | 6                      |
| 1900..... | 58.6        | 95      | 19     | 2.74          | 5.10     | 0.80  | 11          | 9             | 11     | 8                      |
| 1901..... | 52.2        | 83      | 20     | 1.23          | 3.35     | 0.23  | 16          | 10            | 5      | 5                      |
| 1902..... | 53.1        | 89      | 19     | 4.64          | 8.12     | 1.65  | 12          | 9             | 10     | 9                      |
| 1903..... | 53.4        | 91      | 20     | 4.64          | 10.53    | 2.07  | 12          | 8             | 11     | 9                      |
| 1904..... | 50.6        | 91      | 12     | 2.87          | 7.11     | 1.26  | 15          | 8             | 8      | 7                      |
| 1905..... | 53.2        | 90      | 16     | 4.23          | 7.06     | 2.18  | 14          | 7             | 10     | 9                      |
| 1906..... | 52.0        | 87      | 14     | 4.46          | 8.39     | 1.97  | 7           | 7             | 17     | 14                     |
| 1907..... | 48.2        | 87      | 13     | 3.16          | 5.64     | 1.01  | 16          | 8             | 7      | 7                      |
| 1908..... | 54.6        | 93      | 19     | 1.95          | 5.48     | 0.08  | 16          | 7             | 8      | 6                      |
| 1909..... | 48.4        | 87      | 15     | 2.27          | 4.60     | 0.70  | 13          | 7             | 11     | 7                      |
| 1910..... | 55.6        | 91      | 14     | 1.91          | 5.23     | 0.62  | 16          | 8             | 7      | 7                      |
| 1911..... | 52.3        | 83      | 18     | 4.83          | 9.23     | 2.59  | 11          | 7             | 13     | 11                     |
| 1912..... | 54.2        | 90      | 23     | 2.74          | 5.27     | 0.90  | 15          | 7             | 9      | 6                      |
| 1913..... | 54.9        | 88      | 16     | 5.44          | 9.62     | 3.15  | 10          | 6             | 15     | 13                     |
| 1914..... | 56.4        | 91      | 11     | 2.35          | 4.37     | 0.89  | 11          | 9             | 11     | 8                      |
| 1915..... | 54.2        | 85      | 17     | 2.65          | 5.33     | 1.00  | 15          | 7             | 9      | 9                      |
| 1916..... | 52.1        | 92      | 16     | 2.25          | 4.45     | 0.76  | 18          | 7             | 6      | 6                      |
| 1917..... | 47.2        | 84      | 12     | 6.38          | 9.80     | 3.33  | 10          | 10            | 11     | 13                     |
| 1918..... | 55.5        | 85      | 19     | 3.17          | 2.20     | 0.24  | 15          | 8             | 8      | 10                     |
| 1919..... | 57.5        | 92      | 21     | 4.77          | 8.04     | 2.28  | 9           | 8             | 14     | 17                     |
| 1920..... | 57.5        | 88      | 22     | 1.67          | 4.67     | 0.50  | 19          | 7             | 5      | 5                      |
| 1921..... | 52.6        | 84      | 3      | 2.16          | 6.55     | 0.40  | 17          | 7             | 7      | 8                      |
| 1922..... | 54.8        | 94      | 12     | 2.51          | 5.60     | 0.65  | 18          | 6             | 7      | 7                      |
| 1923..... | 51.0        | 87      | 12     | 2.38          | 6.01     | 0.90  | 15          | 8             | 8      | 8                      |
| 1924..... | 52.9        | 87      | 14     | 0.28          | 2.30     | 0.00  | 21          | 7             | 3      | 2                      |
| 1925..... | 46.1        | 83      | 9      | 4.83          | 8.90     | 2.02  | 6           | 8             | 17     | 15                     |
| 1926..... | 51.9        | 90      | 16     | 4.51          | 7.98     | 2.56  | 10          | 9             | 12     | 14                     |
| 1927..... | 55.6        | 99      | 21     | 6.40          | 11.91    | 1.58  | 17          | 5             | 9      | 9                      |
| 1928..... | 55.1        | 91      | 15     | 1.78          | 5.24     | 0.43  | 14          | 8             | 9      | 8                      |
| 1929..... | 50.6        | 85      | 14     | 5.69          | 10.40    | 1.65  | 12          | 8             | 11     | 9                      |
| 1930..... | 50.8        | 93      | 9      | 0.99          | 3.33     | 0.11  | 15          | 7             | 9      | 6                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
|                   |                   |            |               |      |              |      |             |
| Port Jervis.....  | Delaware.....     | 1.5        | 2.1           | 9    | 1.1          | 18   | 18          |
| Phillipsburg..... | Delaware.....     | 0.2        | 0.5           | 1    | 0.0          | 12   | 22          |
| Mauch Chunk.....  | Lehigh.....       | 0.8        | 1.0           | 1    | 0.7          | 8    | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 1.2        | 1.7           | 1    | 1.0          | 23   | 20          |
| Williamsport..... | Susquehanna.....  | -0.3       | -0.1          | 1    | -0.4         | 20   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.0        | 3.1           | 1    | 2.9          | 18   | 17          |
| Greensboro.....   | Monongahela.....  | 9.9        | 10.9          | 2    | 9.3          | 28   | 30          |
| West Newton.....  | Youghiogheny..... | -0.1       | 0.0           | 1    | -0.1         | 4    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.5       | 12.5          | 1    | 12.4         | 12   | 31          |
| Pittsburgh.....   | Ohio.....         | 9.5        | 9.5           | 9    | 9.4          | 1    | 25          |
| Beaver Dam.....   | Ohio.....         | 7.4        | 7.5           | 9    | 7.3          | 25   | 30          |



## Climatological Data for October, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                              |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|------------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                       |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Allentown          | Lehigh       | 254             | 19                      | 50.8                         | .....                     | 79      | 13   | 26     | 23   | 36                       | 0.97  | -2.44                     | 0.43                 | 0                         | 6                            | 21    | 4                            | 6         | ne.        | John A. Frick.               |
| Altoona            | Blair        | 1,615           | 43                      | 49.8                         | -2.1                      | 83      | 15   | 23     | 21   | 38                       | 0.50  | -1.99                     | 0.23                 | 0                         | 5                            | 26    | 3                            | 2         | w.         | F. E. Rooney.                |
| Arendtsville       | Adams        | 700             | 6                       | 52.8                         | .....                     | 85      | 13   | 24     | 21   | 45                       | 0.14  | .....                     | 0.09                 | 0                         | 3                            | 21    | 5                            | 5         | nw.        | Dr. S. W. Frost.             |
| Bellefonte         | Center       | 1,050           | 25                      | 47.9                         | .....                     | 82      | 14   | 18     | 27   | 45                       | 0.43  | -2.69                     | 0.20                 | T.                        | 5                            | 9     | 13                           | 9         | sw.        | U. S. Weather Bureau.        |
| Bethlehem          | Northampton  | 364             | 44                      | 54.8                         | -0.7                      | 84      | 13   | 29     | 23   | 38                       | 1.82  | -1.41                     | 0.97                 | 0                         | 5                            | 17    | 2                            | 12        | nw.        | Lehigh University.           |
| Carlisle           | Cumberland   | 467             | 64                      | 52.8                         | +0.5                      | 86      | 14   | 17     | 27   | 48                       | 0.20  | -3.06                     | 0.13                 | 0                         | 4                            | 21    | 3                            | 7         | nw.        | Prof. C. E. Miller.          |
| Catawissa          | Columbia     | 520             | 34                      | 53.0                         | -0.6                      | 84      | 12†  | 23     | 27   | 45                       | 0.84  | -2.26                     | 0.26                 | 0                         | 6                            | 18    | 7                            | 6         | .....      | W. L. Gearhart.              |
| Center Hall        | Center       | 1,272           | 34                      | 50.6                         | -0.8                      | 89      | 12   | 22     | 20   | 52                       | 0.44  | -2.61                     | 0.18                 | T.                        | 4                            | 21    | 6                            | 4         | .....      | S. W. Smith.                 |
| Chambersburg       | Franklin     | 580             | 31                      | 52.8                         | 0.0                       | 83      | 13   | 24     | 21†  | 44                       | 0.27  | -2.93                     | 0.19                 | 0                         | 4                            | 19    | 9                            | 3         | sw.        | William B. Spear.            |
| Clearfield         | Clearfield   | 1,120           | 21                      | 51.1                         | -1.9                      | 90      | 13   | 18     | 23†  | 52                       | 0.73  | -2.59                     | 0.35                 | T.                        | 5                            | 17    | 6                            | 8         | w.         | E. W. Hess.                  |
| Coatesville        | Chester      | 380             | 43                      | 52.6                         | -1.7                      | 79      | 13†  | 26     | 23   | 34                       | 0.83  | -2.69                     | 0.33                 | 0                         | 6                            | 16    | 5                            | 10        | ne.        | Howard L. Pyle.              |
| Colebrook          | Lebanon      | 560             | 21                      | 51.0                         | -2.0                      | 81      | 13   | 20     | 21   | 38                       | 0.19  | -2.82                     | 0.09                 | 0                         | 5                            | 18    | 6                            | 7         | w.         | Wm. A. Rorer.                |
| Emporium           | Cameron      | 1,050           | 43                      | 48.6                         | -1.4                      | 78      | 15   | 21     | 27   | 38                       | 0.96  | -2.34                     | 0.51                 | T.                        | 5                            | 13    | 10                           | 8         | w.         | T. B. Lloyd.                 |
| Ephrata            | Lancaster    | 380             | 30                      | 52.6                         | -2.5                      | 82      | 17   | 26     | 23†  | 36                       | 1.16  | -2.01                     | 0.89                 | 0                         | 5                            | 16    | 5                            | 10        | nw.        | Ira J. Keath.                |
| Freeland           | Luzerne      | 1,970           | 15                      | 50.4                         | +4.2                      | 81      | 13   | 22     | 20   | 29                       | 0.57  | -3.30                     | 0.18                 | 0.2                       | 7                            | 13    | 8                            | 10        | nw.        | Theo. Reichmann.             |
| George School      | Bucks        | 190             | 24                      | 54.4                         | -0.5                      | 84      | 13   | 23     | 23   | 42                       | 1.50  | -1.75                     | 1.08                 | 0                         | 6                            | 19    | 3                            | 9         | nw.        | Prof. N. W. Swayne           |
| Gettysburg         | Adams        | 553             | 57                      | 53.6                         | +1.4                      | 81      | 13   | 23     | 23   | 40                       | 0.38  | -2.82                     | 0.18                 | T.                        | 4                            | 17    | 11                           | 3         | w.         | Dr. Henry Stewart            |
| Gordon             | Schuylkill   | 840             | 27                      | 48.6                         | -2.1                      | 80      | 13   | 17     | 21   | 43                       | 0.56  | -3.82                     | 0.23                 | T.                        | 4                            | 16    | 9                            | 6         | e.         | Capt. J. G. Johnson          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 44.6                         | .....                     | 80      | 13   | 14     | 21†  | 50                       | 1.23  | -2.22                     | 0.31                 | 0.5                       | 6                            | 18    | 6                            | 7         | w.         | Gustav Holtz.                |
| Hamburg            | Berks        | 535             | 37                      | 51.2                         | -2.7                      | 82      | 12†  | 22     | 23†  | 42                       | 0.33  | -3.73                     | 0.13                 | 0                         | 4                            | 23    | 6                            | 2         | w.         | State Sanatorium.            |
| Hanover            | York         | 600             | 27                      | 55.2                         | -0.9                      | 84      | 13   | 26     | 21   | 39                       | 0.58  | -2.28                     | 0.29                 | T.                        | 7                            | 17    | 4                            | 10        | n.         | Thomas Y. Cooper.            |
| Harrisburg         | Dauphin      | 361             | 61                      | 53.9                         | -0.9                      | 80      | 14   | 30     | 21   | 31                       | 0.11  | -2.32                     | 0.04                 | T.                        | 5                            | 13    | 12                           | 6         | nw.        | U. S. Weather Bureau.        |
| Hawley             | Wayne        | 900             | 12                      | 47.7                         | .....                     | 79      | 13   | 18     | 23   | 40                       | 1.08  | -2.22                     | 0.41                 | T.                        | 7                            | 17    | 8                            | 6         | w.         | Mrs. Della M. Pennell.       |
| Holtwood           | Lancaster    | 200             | 15                      | 57.4                         | .....                     | 86      | 14   | 31     | 23   | 37                       | 0.52  | -1.76                     | 0.16                 | 0                         | 7                            | 18    | 8                            | 5         | .....      | H. W. Lowy, C. E.            |
| Huntingdon         | Huntingdon   | 650             | 43                      | 51.0                         | -1.5                      | 84      | 15   | 16     | 27   | 50                       | 0.40  | -2.61                     | 0.16                 | T.                        | 5                            | 17    | 7                            | 7         | w.         | Prof. Paul R. Yoder.         |
| Hyndman            | Bedford      | 977             | 18                      | 51.5                         | -1.8                      | 87      | 15   | 17     | 22   | 62                       | 0.85  | -2.01                     | 0.68                 | T.                        | 6                            | 14    | 5                            | 12        | .....      | Horace A. Sheavly.           |
| Kylertown          | Clearfield   | 1,637           | .....                   | 47.9                         | .....                     | 80      | 15   | 17     | 23   | 40                       | 0.73  | .....                     | 0.38                 | T.                        | 5                            | 13    | 6                            | 12        | w.         | U. S. Bureau Plant Industry. |
| Lancaster          | Lancaster    | 255             | 43                      | 51.4                         | -2.0                      | 84      | 13   | 20     | 21†  | 47                       | 0.65  | -2.43                     | 0.36                 | 0                         | 4                            | 19    | 6                            | 2         | w.         | Supt. of Water Works.        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 49.4                         | -1.1                      | 83      | 14   | 22     | 23†  | 41                       | 1.20  | -1.56                     | 0.40                 | T.                        | 7                            | 17    | 6                            | 8         | w.         | C. P. Darling.               |
| Lebanon            | Lebanon      | 469             | 90                      | 54.2                         | +1.0                      | 83      | 17   | 26     | 21†  | 38                       | 0.13  | -3.39                     | 0.07                 | T.                        | 4                            | 18    | 9                            | 4         | nw.        | S. B. Benzing.               |
| Lewisburg          | Union        | 450             | 56                      | 52.4                         | +2.2                      | 85      | 14   | 21     | 27   | 44                       | 0.27  | -2.97                     | 0.12                 | 0                         | 5                            | 17    | 5                            | 9         | w.         | Prof. W. G. Owens.           |
| Lock Haven         | Clinton      | 560             | 42                      | 52.8                         | -0.5                      | 82      | 14   | 24     | 26†  | 43                       | 0.53  | -2.72                     | 0.22                 | 0                         | 5                            | 14    | 8                            | 9         | sw.        | Joseph Beaver.               |
| Lykens             | Dauphin      | 680             | 16                      | 51.0                         | -2.4                      | 85      | 13   | 22     | 23†  | 46                       | 0.31  | -2.92                     | 0.16                 | 0                         | 5                            | 21    | 5                            | 5         | nw.        | Susquehanna Collieries Co    |
| Mauch Chunk        | Carbon       | 600             | 41                      | 51.8                         | -0.5                      | 83      | 12†  | 21*    | 23   | 45†                      | 0.45  | -3.31                     | 0.13                 | T.                        | 5                            | 18    | 9                            | 4         | nw.        | R. K. Wintermute.            |
| Mifflintown        | Juniata      | 445             | 27                      | 51.5                         | -0.9                      | 82      | 14   | 20     | 27   | 44                       | 0.35  | -2.89                     | 0.08                 | 0                         | 5                            | 18    | 1                            | 12        | w.         | Wellington Smith.            |
| Montrose           | Susquehanna  | 1,720           | 28                      | 47.0                         | -2.0                      | 77      | 12   | 20     | 20   | 34                       | 1.25  | -2.27                     | 0.48                 | 3.0                       | 4                            | 14    | 10                           | 7         | w.         | Silas Jagger.                |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 47.6                         | +0.2                      | 75      | 10   | 22     | 20   | 34                       | 1.29  | -3.73                     | 0.53                 | 0.2                       | 6                            | 17    | 7                            | 7         | nw.        | Cecil J. Hoskinson.          |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 49.0                         | -1.6                      | 84      | 14   | 18     | 20   | 43                       | 0.91  | -2.45                     | 0.34                 | T.                        | 7                            | 15    | 12                           | 4         | nw.        | H. O. Hacker.                |
| Narberth           | Montgomery   | 300             | 11                      | 51.6                         | .....                     | 78      | 13   | 27     | 23   | 33                       | 1.89  | .....                     | 1.18                 | 0                         | 7                            | 16    | 7                            | 8         | ne.        | Charles Decker.              |
| Neshaminy Falls††  | Bucks        | 60              | 41                      | 52.6                         | -1.4                      | 84      | 12   | 22     | 23   | 39                       | 1.95  | .....                     | 1.29                 | 0                         | 7                            | 21    | 4                            | 6         | ne.        | North Springfield Water Co.  |
| Palmerton          | Carbon       | 398             | 14                      | 50.6                         | .....                     | 81      | 10   | 23     | 21   | 40                       | 0.95  | .....                     | 0.48                 | T.                        | 5                            | 16    | 13                           | 2         | ne.        | New Jersey Zinc Co.          |
| Philadelphia       | Philadelphia | 114             | 59                      | 56.7                         | -1.1                      | 81      | 13   | 37     | 21   | 27                       | 1.74  | -1.07                     | 0.99                 | 0                         | 7                            | 17    | 6                            | 8         | n.         | U. S. Weather Bureau.        |
| Philadelphia-Gtn.  | Philadelphia | 113             | 6                       | 56.0                         | .....                     | 81      | 13   | 37     | 20†  | 28                       | 1.54  | .....                     | 0.98                 | T.                        | 4                            | 18    | 10                           | 3         | .....      | Julius Bernstein.            |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 55.1                         | -2.3                      | 81      | 13   | 34     | 21   | 30                       | 1.73  | -0.92                     | 1.01                 | 0                         | 6                            | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.       |
| Phoenixville       | Chester      | 100             | 20                      | 55.6                         | -1.2                      | 82      | 13   | 24     | 23   | 36                       | 1.45  | -1.35                     | 0.60                 | 0                         | 5                            | 18    | 10                           | 3         | ne.        | North Springfield Water Co.  |
| Quakertown         | Bucks        | 496             | 46                      | 51.0                         | -0.1                      | 86      | 13   | 20     | 23   | 49                       | 1.42  | -1.95                     | 0.66                 | 0                         | 6                            | 16    | 6                            | 9         | nw.        | John E. Benner.              |
| Reading            | Berks        | 325             | 61                      | 54.0                         | -0.7                      | 81      | 17   | 31     | 23   | 33                       | 0.66  | -2.46                     | 0.44                 | 0                         | 4                            | 13    | 10                           | 8         | nw.        | U. S. Weather Bureau.        |
| Scranton           | Lackawanna   | 805             | 36                      | 50.6                         | -1.2                      | 81      | 14   | 27     | 21   | 35                       | 1.34  | -1.69                     | 0.89                 | T.                        | 6                            | 10    | 14                           | 7         | n.         | U. S. Weather Bureau.        |
| Selinsgrove        | Snyder       | 455             | 42                      | 52.0                         | -0.6                      | 86      | 15   | 24     | 23   | 50                       | 0.68  | -2.86                     | 0.50                 | 0                         | 5                            | 16    | 10                           | 5         | nw.        | Dr. George E. Fisher.        |
| Shawmont††         | Philadelphia | 51              | 35                      | 53.6                         | .....                     | 78      | 17   | 28     | 23   | 32                       | 1.44  | -1.90                     | 0.84                 | 0                         | 5                            | 10    | 9                            | 12        | nw.        | W. S. Guiles.                |
| State College      | Center       | 1,217           | 46                      | 50.2                         | -0.8                      | 82      | 13†  | 24     | 23†  | 42                       | 0.36  | -2.53                     | 0.14                 | T.                        | 5                            | 12    | 13                           | 6         | w.         | C. A. Kern.                  |
| Stroudsburg        | Monroe       | 500             | 16                      | 48.4                         | -4.6                      | 83      | 13   | 19     | 21   | 43                       | 1.38  | -2.72                     | 0.62                 | 0                         | 5                            | 14    | 8                            | 9         | nw.        | State Normal School.         |
| Towanda            | Bradford     | 754             | 36                      | 48.8                         | -2.0                      | 77      | 14   | 23     | 23†  | 34                       | 0.61  | -2.49                     | 0.22                 | 0                         | 7                            | 13    | 6                            | 12        | w.         | Hiram E. Bull, C. E.         |
| Wellsboro          | Tioga        | 1,419           | 66                      | 48.6†                        | -0.5                      | 80†     | 14   | 20*    | 23   | 43†                      | 0.62  | -2.58                     | 0.22                 | T.                        | 4                            | 17    | 8                            | 6         | w.         | George W. Hill.              |
| West Chester       | Chester      | 455             | 93                      | 53.6                         | -0.9                      | 76      | 13†  | 30     | 21   | 28                       | 0.92  | -2.82                     | 0.37                 | 0                         | 5                            | 19    | 9                            | 3         | n.         | Joseph W. Belt.              |
| Williamsport       | Lycoming     | 521             | 44                      | 51.0                         | -1.6                      | 83      | 14   | 23     | 27   | 42                       | 0.25  | -3.12                     | 0.13                 | 0                         | 4                            | 11    | 7                            | 13        | w.         | Miss Veronica E. April.      |
| York               | York         | 400             | 43                      | 52.0                         | -1.6                      | 84      | 13   | 21     | 21†  | 45                       | 0.40  | -2.48                     | 0.25                 | 0                         | 6                            | 21    | 6                            | 4         | se.        | York Water Co.               |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |
| Beaver Dam††       | Beaver       | 700             | 38                      | 50.8                         | -4.7                      | 78      | 11†  | 23     | 26   | 37                       | 1.56  | -0.95                     | 0.39                 | T.                        | 8                            | 12    | 9                            | 10        | sw.        | U. S. Engineer.              |
| Bradford           | McKean       | 1,460           | 15                      | 46.8                         | -2.6                      | 78      | 14   | 22     | 23   | 44                       | 1.18  | -2.56                     | 0.43                 | 2.1                       | 8                            | 9     | 12                           | 10        | w.         | Supt. Timber Pres. Plant.    |
| Brookville         | Jefferson    | 1,173           | 40                      | 46.6†                        | -3.8                      | 93†     | 15   | 17*    | 26   | 54†                      | 0.96  | -2.01                     | 0.40                 | 0                         | 5                            | 24    | 5                            | 2         | .....      | John Fawcett.                |
| Butler             | Butler       | 1,152           | 9                       | 50.4                         | .....                     | 84      | 14†  | 18     | 26   | 45                       | 1.29  | .....                     | 0.49                 | T.                        | 6                            | 16    | 6                            | 9         | w.         | William C. Faust.            |
| Chambersville      | Indiana      | 1,047           | .....                   | 48.4                         | .....                     | 82      | 14†  | 17     | 21†  | 48                       | 0.81  | .....                     | 0.40                 | 0                         | 8                            | 12    | 3                            | 16        | w.         | John E. Lewis.               |
| Claysville         | Washington   | 1,150           | 27                      | 50.4                         | -3.3                      | td      |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                              |



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## Daily Precipitation for October, 1930—Continued from page 48

| Stations           | Drainage Basin    | Day of month |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     | Total |      |
|--------------------|-------------------|--------------|----|-----|-----|---|-----|----|------|------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|
|                    |                   | 1            | 2  | 3   | 4   | 5 | 6   | 7  | 8    | 9    | 10  | 11 | 12 | 13 | 14 | 15 | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |
| Ohio Drainage.     |                   |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |       |      |
| Beaver Dam\|\|\| | Ohio.....         |              |    |     |     |   |     |    |      | .31  | .17 |    |    |    |    |    | .08 |     | .39 |     |     |     | T.  |    | .13 | .03 |     |     | .32 |     |     | .13 | 1.56  |      |
| Beaver Falls\|\|\| | Beaver.....       |              |    |     |     |   |     |    |      | .30  | .05 |    |    |    |    |    | .01 | T.  | .27 |     |     |     |     |    | .08 | .05 |     |     | .20 |     |     | .15 | 1.11  |      |
| Bradford.....      | Allegheny.....    | T.           |    | T.  |     |   |     |    | T.   | .06  |     |    |    |    |    |    | .05 |     | .36 |     |     | .03 | .03 | T. |     | .20 |     |     | .43 | .04 |     | .03 | 1.18  |      |
| Brookville.....    | do.....           |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     | .27 |     |     |     |     |     |    | .15 |     |     |     | .40 |     |     | .09 | 0.96  |      |
| Butler.....        | Ohio.....         |              |    |     |     |   |     |    |      | .34  |     |    |    |    |    |    |     | .30 |     |     |     | T.  | T.  |    | .07 | .03 |     |     | .49 |     |     | .06 | 1.29  |      |
| Chambersville..... | Allegheny.....    |              |    |     |     |   |     |    |      | .05  | .02 |    |    |    |    |    |     | .23 |     |     |     | T.  | T.  |    | .04 | .03 | .01 |     | .40 |     |     | .03 | 0.81  |      |
| Claysville.....    | Ohio.....         |              |    |     |     |   |     |    |      | .25  | .03 |    |    |    |    |    |     |     | .25 |     |     |     |     |    | .11 | .05 | .04 |     |     | .30 |     | .18 | 1.21  |      |
| Cloeff.....        | Allegheny.....    |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     | .24 |     |     |     |     |     |    | .10 | .09 |     |     | .22 | .07 |     | .08 | 0.80  |      |
| Clymer\|\|\| | Conemaugh.....    |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     | .18 |     |     | T.  | T.  |     |    | .15 | T.  |     |     |     | .45 |     |     | 0.78  |      |
| Confluence\|\|\| | Youghiogheny..... |              |    |     |     |   |     |    |      | .05  |     |    |    |    |    |    |     |     |     | .13 |     |     |     |    |     | .28 | .08 |     |     | .10 |     |     | .10   | 0.74 |
| Coraopolis\|\|\| | Ohio.....         |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |       |      |
| Corry.....         | Allegheny.....    | .02          |    |     |     |   |     |    |      | .45  |     |    |    |    |    |    | .01 | .55 | T.  |     | .20 | .04 |     |    |     | .20 |     |     |     | .55 | .05 |     | .26   | 2.38 |
| Coudersport.....   | Allegheny.....    |              |    |     |     |   |     |    |      | .08  |     |    |    |    |    |    |     | .25 |     |     |     |     |     |    | .07 | .13 |     |     | .23 | .02 |     |     | .078  |      |
| Derry.....         | Conemaugh.....    |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     | .30 |     |     |     |     |     |    | .06 | .11 | .07 |     |     | .32 |     |     | .05   | 0.91 |
| Donora\|\|\| | Monongahela.....  |              |    |     |     |   |     |    |      |      | .13 |    |    |    |    |    |     |     | .15 |     |     |     |     |    |     | .15 | .05 |     |     | .22 |     |     | .05   | 0.75 |
| Ebensburg.....     | Conemaugh.....    |              |    |     |     |   |     |    |      | .04  |     |    |    |    |    |    |     | .12 |     |     |     |     |     |    | .07 | .12 |     |     |     | .34 |     |     | .05   | 0.74 |
| Elk Lick.....      | Youghiogheny..... |              |    |     | .08 |   |     |    |      | .06  |     |    |    |    |    |    |     |     | .30 |     |     |     |     |    | .22 |     | .10 |     |     |     |     | .40 | 1.16  |      |
| Falls Creek.....   | Allegheny.....    |              |    |     |     |   |     |    |      | .02  | .03 |    |    |    |    |    |     | .22 |     |     |     | T.  | .01 |    |     | .21 |     |     |     | .43 |     |     |       | .092 |
| Franklin\|\|\| | Allegheny.....    | .09          |    |     |     |   |     |    |      | .40  | T.  |    |    |    |    |    |     | .08 | .33 |     |     |     | .07 |    |     | .08 | .03 |     |     | .39 | .03 |     | .14   | 1.64 |
| Freeport\|\|\| | do.....           |              |    |     |     |   |     |    |      | .05  |     |    |    |    |    |    |     | .29 |     |     |     |     |     |    |     | .16 | .03 |     |     | .37 |     |     | .02   | 0.92 |
| Greensburg.....    | Monongahela.....  |              |    |     |     |   |     |    |      | .04  |     |    |    |    |    |    |     |     | .17 |     |     |     |     |    |     | .27 | .02 |     |     | .14 |     |     | .03   | 0.67 |
| Greensburg.....    | Youghiogheny..... |              |    |     |     |   |     |    | T.   | .01  |     |    |    |    |    |    |     | .13 | T.  |     |     | T.  |     |    | .09 | .13 | .07 |     |     | .36 |     |     | .03   | 0.82 |
| Greenville.....    | Beaver.....       |              |    |     |     |   |     |    | 1.01 | .05  |     |    |    |    |    |    |     | .25 |     | T.  | T.  |     |     |    | .04 | T.  |     |     | T.  | .29 | .05 | T.  | .19   | 1.88 |
| Grove City.....    | do.....           |              |    |     |     |   |     |    | .05  | .38  |     |    |    |    |    |    |     | .28 |     |     |     | T.  | T.  |    | .10 | T.  | T.  |     | .02 | .22 |     |     | .03   | 1.08 |
| Herrs Isl. Dam\|\|\| | Ohio.....         |              |    |     |     |   |     |    |      | .45  | .27 |    |    |    |    |    |     | T.  | .25 |     |     |     |     |    | .17 | .05 |     |     | .26 |     |     | .08 | 1.53  |      |
| Ingram.....        | do.....           |              |    |     |     |   |     |    |      | .64  | .09 |    |    |    |    |    |     | .02 | .26 |     |     |     | T.  |    | .09 | .07 | .02 |     | T.  | .31 |     | T.  | .11   | 1.61 |
| Irwin.....         | Youghiogheny..... |              |    |     |     |   |     |    |      | .01  | .01 |    |    |    |    |    |     | .06 |     |     |     |     |     |    | .11 | .11 | .03 |     |     | .25 |     |     | .03   | 0.61 |
| Johnstown.....     | Conemaugh.....    |              |    |     |     |   |     |    |      | .03  | T.  |    |    |    |    |    |     | T.  | .06 | T.  |     |     |     |    | .08 | .15 | .02 |     | .02 | .15 |     |     | .11   | 0.62 |
| Kregar\|\|\| | Youghiogheny..... |              |    |     |     |   |     |    |      | .01  |     |    |    |    |    |    |     | .11 | .19 |     |     |     |     |    | .21 | .12 |     |     | .14 |     |     | .04 | .07   | 0.89 |
| Lock No. 4\|\|\| | Monongahela.....  |              |    |     |     |   |     |    |      | .26  |     |    |    |    |    |    |     |     | .18 |     |     |     |     |    | .17 | .07 |     |     | .20 |     |     |     | .07   | 0.95 |
| Lycippus.....      | Conemaugh.....    |              |    |     |     |   |     |    | T.   |      |     |    |    |    |    |    |     | .25 | T.  |     |     |     |     |    | T.  | .23 |     |     |     | .31 |     |     | T.    | 0.79 |
| Meadville.....     | Allegheny.....    | .11          |    |     |     |   |     |    |      | 1.20 | .11 |    |    |    |    |    |     | .44 |     |     |     | .02 | .04 |    |     | .11 | .08 |     |     | .34 | .04 |     | .17   | 2.66 |
| Mount Lebanon..... | Ohio.....         |              |    |     |     |   |     |    |      | .34  | .09 |    |    |    |    |    |     | .37 | .01 |     |     |     |     |    | .09 | .09 | .05 |     |     | .24 |     |     | .21   | 1.51 |
| New Castle\|\|\| | Beaver.....       |              |    |     |     |   | .01 |    |      | .51  | .02 |    |    |    |    |    |     | .04 | .38 |     |     | T.  | .01 |    | .01 | .10 | .02 | .65 | .25 |     | .01 | .21 | 1.62  |      |
| Newell.....        | Monongahela.....  |              |    |     |     |   |     |    |      | .14  |     |    |    |    |    |    |     | .08 |     |     |     |     |     |    | .13 |     | .03 |     | .16 |     |     |     | T.    | 0.54 |
| Parkers Landing\|\|\| | Allegheny.....    | T.           |    |     |     |   |     |    |      | .24  |     |    |    |    |    |    |     |     | .28 |     |     |     | T.  |    |     | .08 | T.  |     |     | .38 |     |     | .02   | 1.00 |
| Pennline\|\|\|†† | Beaver.....       | .10          |    | .02 |     |   |     |    |      | 1.08 |     |    |    |    |    |    |     | .07 | .10 | .36 |     | .12 | .02 |    |     | .02 | .07 |     |     | .36 | .02 |     | .19   | 2.53 |
| Pittsburgh***      | Ohio.....         |              |    |     |     |   |     | T. | .40  | .11  |     |    |    |    |    |    |     | .19 |     |     |     |     |     |    | .15 | .02 | T.  |     | .23 | T.  |     | .05 | .02   | 1.17 |
| Ridgway.....       | Allegheny.....    | .03          |    |     |     |   |     |    |      | .17  | T.  |    |    |    |    |    |     | .82 | .04 | .32 |     |     |     | T. | T.  |     | .35 |     |     | .42 | .01 |     | T.    | 1.96 |
| Saltsburg\|\|\| | Conemaugh.....    |              |    |     |     |   |     |    |      | .01  |     |    |    |    |    |    |     | T.  | .22 |     |     |     |     |    |     | .09 | .10 |     |     | .27 |     |     | T.    | 0.69 |
| Sharon\|\|\| | Beaver.....       |              |    |     |     |   |     |    |      | .89  | T.  |    |    |    |    |    |     | .88 | .17 | .28 |     | T.  | T.  |    |     | .05 | .03 |     |     | .26 |     |     | .15   | 2.71 |
| Somerset.....      | Youghiogheny..... |              |    |     |     |   |     |    | T.   | T.   |     |    |    |    |    |    |     | .02 | .11 | T.  |     |     |     |    | .15 | .12 | .14 |     | .04 |     |     |     | .05   | 0.63 |
| Springdale\|\|\| | Allegheny.....    |              |    |     |     |   |     |    |      | .11  |     |    |    |    |    |    |     |     | .23 |     |     |     |     |    |     | .15 | .09 |     |     | .33 |     |     | .07   | 0.98 |
| Uniontown.....     | Monongahela.....  |              |    |     |     |   |     |    | T.   |      |     |    |    |    |    |    |     | .28 |     |     |     |     |     |    | .13 | .09 | .03 |     | .09 | .16 |     |     | .09   | 0.87 |
| Unity Reservoir††  | Youghiogheny..... |              |    |     |     |   |     |    |      | .04  |     |    |    |    |    |    |     | .26 | T.  |     |     |     |     |    | .10 | .13 | .08 |     |     | .40 |     |     | .05   | 1.06 |
| Vandergrift†       | Conemaugh.....    |              |    |     |     |   |     |    |      | .02  |     |    |    |    |    |    |     | T.  | .20 |     |     |     |     |    |     | .02 |     |     |     | .42 |     |     | .04   | 0.70 |
| Warren.....        | Allegheny.....    | .08          |    | .01 |     |   |     |    |      | .05  | .05 |    |    |    |    |    |     | .53 |     |     |     | .13 | .06 |    |     | .06 | .08 |     |     | .30 | .02 |     | .04   | 1.41 |
| Westford\|\|\| | Beaver.....       |              |    |     |     |   |     |    |      | 1.20 |     |    |    |    |    |    |     | .04 |     | .50 | .04 |     |     |    |     |     |     |     | .97 |     |     | .40 | .20   | 3.33 |
| West Newton\|\|\| | Youghiogheny..... |              |    |     |     |   |     |    |      | .04  | .02 |    |    |    |    |    |     |     | .11 |     |     |     |     |    |     | .17 | .10 |     |     | .21 |     |     | .08   | 0.73 |
| Zelienople.....    | Ohio.....         |              |    |     |     |   |     |    |      | .64  | .08 |    |    |    |    |    |     |     | .36 |     |     |     |     |    |     |     |     | .57 | .26 | .45 | .19 |     | 2.55  |      |
| Lake Drainage.     |                   |              |    |     |     |   |     |    |      |      |     |    |    |    |    |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |       |      |
| Erie***            | Lake Erie.....    |              | T. | .01 |     |   |     |    |      | .55  |     |    |    |    |    |    |     | .72 | .30 | .23 | .04 | T.  |     |    | .01 | .06 |     |     | .33 | .07 | .04 | .03 | .84   | 3.23 |
| Genesee.....       | do.....           |              |    |     |     |   |     |    |      | .06  |     |    |    |    |    |    |     | .10 | .25 |     | T.  | T.  |     |    |     | .18 |     |     |     | .34 | .08 |     | .04   | 1.05 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville  
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah.  
‡ Mdt. to mdt.



| Daily Temperatures for October, 1930 |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |  |  |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|--|--|
| Stations                             |              | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |  |  |
| Allentown.....                       | Maximum..... | 61 | 67 | 61 | 65 | 65 | 73 | 74 | 67 | 68 | 78 | 75 | 78 | 79 | 76 | 66 | 73 | 76 | 52 | 51 | 45 | 47 | 53 | 53 | 46 | 53 | 56 | 56 | 63 | 57 | 58 | 49   | 62.5 |      |  |  |
|                                      | Minimum..... | 33 | 35 | 39 | 37 | 36 | 37 | 42 | 50 | 53 | 47 | 48 | 46 | 46 | 46 | 48 | 45 | 49 | 39 | 33 | 32 | 28 | 34 | 26 | 29 | 36 | 36 | 28 | 29 | 43 | 46 | 40   | 39.2 |      |  |  |
| Altoona.....                         | Maximum..... | 60 | 63 | 64 | 65 | 66 | 70 | 75 | 68 | 72 | 76 | 75 | 78 | 75 | 83 | 80 | 72 | 48 | 48 | 41 | 45 | 64 | 45 | 43 | 39 | 58 | 58 | 61 | 55 | 55 | 45 | 61.7 |      |      |  |  |
|                                      | Minimum..... | 40 | 31 | 40 | 41 | 31 | 34 | 37 | 54 | 53 | 48 | 47 | 45 | 44 | 49 | 50 | 52 | 51 | 31 | 30 | 24 | 23 | 25 | 25 | 35 | 28 | 30 | 29 | 48 | 40 | 30 | 32   | 38.0 |      |  |  |
| Beaver Dam.....                      | Maximum..... | 67 | 60 | 65 | 65 | 66 | 72 | 77 | 77 | 69 | 74 | 78 | 77 | 78 | 77 | 75 | 77 | 77 | 47 | 14 | 43 | 40 | 49 | 48 | 45 | 44 | 55 | 63 | 63 | 58 | 53 | 51   | 62.4 |      |  |  |
|                                      | Minimum..... | 38 | 37 | 44 | 41 | 38 | 38 | 40 | 55 | 53 | 53 | 49 | 49 | 46 | 48 | 49 | 50 | 46 | 33 | 35 | 27 | 27 | 27 | 26 | 36 | 27 | 23 | 26 | 52 | 41 | 30 | 35   | 39.3 |      |  |  |
| Bellefonte.....                      | Maximum..... | 59 | 63 | 62 | 63 | 63 | 72 | 74 | 66 | 69 | 76 | 74 | 77 | 80 | 82 | 84 | 84 | 82 | 76 | 51 | 45 | 41 | 43 | 51 | 50 | 44 | 44 | 54 | 64 | 61 | 56 | 54   | 62.2 |      |  |  |
|                                      | Minimum..... | 34 | 28 | 38 | 40 | 26 | 27 | 32 | 55 | 51 | 50 | 41 | 41 | 37 | 43 | 40 | 46 | 29 | 29 | 31 | 22 | 26 | 26 | 20 | 36 | 28 | 23 | 18 | 43 | 38 | 29 | 33   | 34.5 |      |  |  |
| Brookville.....                      | Maximum..... | 56 | 66 | 64 | 65 | 70 | 79 | 68 | 72 | 78 | 82 | 81 | 83 | 81 | 93 | 79 | 66 | 45 | 43 | 40 | 42 | 52 | 49 | 43 | 40 | 55 | 62 | 60 | 55 | 55 | 43 | 62.2 |      |      |  |  |
|                                      | Minimum..... | 27 | 25 | 42 | 30 | 26 | 28 | 51 | 46 | 40 | 38 | 38 | 34 | 38 | 39 | 45 | 30 | 29 | 28 | 22 | 31 | 22 | 20 | 30 | 19 | 17 | 20 | 35 | 31 | 25 | 26 | 31.1 |      |      |  |  |
| Butler.....                          | Maximum..... | 57 | 69 | 67 | 70 | 74 | 74 | 79 | 77 | 77 | 78 | 81 | 82 | 82 | 84 | 84 | 82 | 77 | 79 | 76 | 42 | 48 | 40 | 44 | 54 | 50 | 44 | 44 | 54 | 64 | 61 | 56   | 54   | 64.6 |  |  |
|                                      | Minimum..... | 32 | 28 | 33 | 43 | 35 | 29 | 35 | 59 | 56 | 55 | 42 | 38 | 42 | 42 | 42 | 42 | 42 | 50 | 32 | 30 | 25 | 25 | 34 | 19 | 35 | 27 | 18 | 25 | 50 | 40 | 25   | 32   |      |  |  |
| Carlisle.....                        | Maximum..... | 68 | 71 | 72 | 71 | 71 | 79 | 80 | 73 | 75 | 78 | 81 | 84 | 85 | 86 | 83 | 81 | 78 | 68 | 53 | 48 | 53 | 58 | 55 | 50 | 46 | 60 | 56 | 69 | 68 | 62 | 59   | 68   | 68.6 |  |  |
|                                      | Minimum..... | 38 | 32 | 34 | 36 | 34 | 31 | 32 | 53 | 53 | 55 | 48 | 44 | 38 | 46 | 50 | 48 | 58 | 30 | 26 | 28 | 20 | 33 | 20 | 41 | 34 | 33 | 17 | 37 | 38 | 39 | 32   | 37.1 |      |  |  |
| Catawissa.....                       | Maximum..... | 63 | 73 | 69 | 70 | 76 | 80 | 74 | 75 | 83 | 80 | 84 | 83 | 84 | 81 | 83 | 80 | 69 | 53 | 44 | 51 | 56 | 59 | 53 | 49 | 58 | 63 | 65 | 59 | 63 | 54 | 67.9 |      |      |  |  |
|                                      | Minimum..... | 35 | 31 | 37 | 30 | 33 | 31 | 38 | 56 | 54 | 48 | 45 | 43 | 43 | 44 | 54 | 44 | 47 | 33 | 30 | 28 | 25 | 29 | 24 | 40 | 41 | 35 | 23 | 43 | 41 | 39 | 33   | 38.0 |      |  |  |
| Chambersburg.....                    | Maximum..... | 66 | 66 | 68 | 68 | 66 | 75 | 77 | 70 | 73 | 79 | 77 | 80 | 83 | 78 | 82 | 79 | 80 | 67 | 54 | 49 | 52 | 55 | 52 | 56 | 51 | 64 | 61 | 73 | 60 | 65 | 60   | 67.0 |      |  |  |
|                                      | Minimum..... | 38 | 32 | 36 | 40 | 30 | 31 | 36 | 52 | 54 | 49 | 47 | 45 | 42 | 52 | 49 | 57 | 52 | 35 | 29 | 29 | 24 | 25 | 24 | 41 | 34 | 31 | 24 | 43 | 43 | 35 | 34   | 38.5 |      |  |  |
| Claysville.....                      | Maximum..... | 61 | 71 | 72 | 70 | 71 | 81 | 78 | 72 | 74 | 81 | 83 | 80 | 82 | 85 | 80 | 80 | 72 | 47 | 47 | 45 | 47 | 53 | 46 | 46 | 48 | 62 | 66 | 61 | 57 | 54 | 45   | 65.1 |      |  |  |
|                                      | Minimum..... | 29 | 27 | 38 | 38 | 31 | 32 | 40 | 56 | 49 | 51 | 44 | 45 | 41 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47   | 47   |      |  |  |
| Clearfield.....                      | Maximum..... | 66 | 71 | 69 | 73 | 77 | 80 | 81 | 75 | 71 | 84 | 84 | 85 | 90 | 88 | 88 | 84 | 74 | 52 | 48 | 40 | 43 | 58 | 50 | 43 | 43 | 59 | 60 | 62 | 58 | 60 | 61   | 66.7 |      |  |  |
|                                      | Minimum..... | 39 | 40 | 38 | 39 | 36 | 28 | 30 | 53 | 53 | 48 | 43 | 41 | 38 | 42 | 39 | 47 | 45 | 30 | 25 | 20 | 27 | 34 | 18 | 33 | 28 | 18 | 20 | 45 | 37 | 36 | 32   | 35.5 |      |  |  |
| Coatesville.....                     | Maximum..... | 61 | 63 | 64 | 64 | 64 | 70 | 73 | 67 | 67 | 76 | 75 | 76 | 79 | 72 | 70 | 70 | 79 | 66 | 53 | 47 | 47 | 52 | 56 | 48 | 46 | 56 | 59 | 67 | 57 | 60 | 64   | 63.2 |      |  |  |
|                                      | Minimum..... | 43 | 39 | 43 | 42 | 41 | 42 | 40 | 48 | 54 | 50 | 56 | 47 | 45 | 51 | 57 | 51 | 53 | 37 | 30 | 31 | 28 | 33 | 26 | 42 | 35 | 34 | 27 | 44 | 45 | 46 | 41   | 42.0 |      |  |  |
| Corry.....                           | Maximum..... | 55 | 62 | 60 | 66 | 69 | 76 | 74 | 67 | 69 | 78 | 82 | 81 | 83 | 83 | 83 | 80 | 63 | 44 | 39 | 35 | 35 | 46 | 47 | 40 | 35 | 54 | 60 | 60 | 52 | 55 | 42   | 60.5 |      |  |  |
|                                      | Minimum..... | 31 | 28 | 34 | 31 | 28 | 30 | 38 | 53 | 53 | 46 | 43 | 41 | 38 | 43 | 43 | 42 | 40 | 29 | 27 | 24 | 29 | 31 | 26 | 24 | 21 | 32 | 32 | 47 | 39 | 28 | 24   | 34.7 |      |  |  |
| Emporium.....                        | Maximum..... | 57 | 60 | 60 | 62 | 65 | 70 | 73 | 68 | 65 | 75 | 77 | 75 | 77 | 76 | 78 | 76 | 67 | 48 | 44 | 40 | 40 | 50 | 49 | 42 | 37 | 52 | 57 | 58 | 54 | 53 | 44   | 59.6 |      |  |  |
|                                      | Minimum..... | 39 | 35 | 42 | 39 | 30 | 33 | 35 | 53 | 53 | 52 | 48 | 46 | 40 | 38 | 44 | 52 | 42 | 30 | 33 | 28 | 32 | 22 | 36 | 30 | 23 | 21 | 48 | 41 | 31 | 32 | 37   | 37.5 |      |  |  |
| Erie.....                            | Maximum..... | 55 | 59 | 57 | 59 | 62 | 69 | 74 | 67 | 69 | 68 | 72 | 76 | 80 | 78 | 72 | 72 | 67 | 45 | 35 | 37 | 42 | 46 | 50 | 45 | 42 | 53 | 60 | 62 | 50 | 52 | 44   | 58.7 |      |  |  |
|                                      | Minimum..... | 45 | 41 | 49 | 48 | 44 | 47 | 53 | 53 | 58 | 58 | 55 | 56 | 58 | 56 | 57 | 57 | 44 | 31 | 28 | 31 | 35 | 37 | 34 | 36 | 31 | 33 | 42 | 48 | 42 | 36 | 36   | 44.5 |      |  |  |
| Franklin.....                        | Maximum..... | 55 | 70 | 68 | 71 | 75 | 79 | 76 | 67 | 73 | 83 | 85 | 84 | 86 | 83 | 84 | 82 | 62 | 47 | 43 | 39 | 43 | 53 | 50 | 48 | 40 | 57 | 63 | 60 | 57 | 57 | 44   | 64.0 |      |  |  |
|                                      | Minimum..... | 34 | 32 | 33 | 37 | 32 | 35 | 35 | 39 | 54 | 50 | 46 | 45 | 41 | 42 | 42 | 46 | 47 | 33 | 30 | 26 | 29 | 32 | 22 | 27 | 27 | 20 | 22 | 25 | 42 | 26 | 26   | 34.7 |      |  |  |
| Freeland.....                        | Maximum..... | 55 | 60 | 61 | 59 | 60 | 69 | 72 | 62 | 64 | 74 | 71 | 78 | 81 | 80 | 68 | 75 | 78 | 60 | 49 | 43 | 44 | 53 | 54 | 44 | 36 | 52 | 59 | 62 | 53 | 60 | 48   | 60.8 |      |  |  |
|                                      | Minimum..... | 38 | 35 | 40 | 36 | 35 | 40 | 45 | 47 | 49 | 51 | 52 | 52 | 55 | 56 | 54 | 48 | 58 | 33 | 29 | 22 | 24 | 30 | 34 | 35 | 27 | 29 | 35 | 40 | 43 | 38 | 33   | 40.1 |      |  |  |
| Genesee.....                         | Maximum..... | 50 | 57 | 57 | 62 | 62 | 69 | 73 | 72 | 69 | 72 | 72 | 75 | 78 | 80 | 73 | 75 | 72 | 71 | 48 | 40 | 38 | 46 | 49 | 45 | 35 | 50 | 61 | 55 | 55 | 53 | 46   | 60.1 |      |  |  |
|                                      | Minimum..... | 37 | 28 | 28 | 25 | 23 | 25 | 29 | 50 | 54 | 45 | 43 | 41 | 36 | 36 | 35 | 38 | 40 | 27 | 27 | 26 | 30 | 31 | 18 | 32 | 25 | 25 | 20 | 44 | 38 | 25 | 30   | 32.5 |      |  |  |
| Gettysburg.....                      | Maximum..... | 69 | 70 | 68 | 62 | 68 | 75 | 78 | 69 | 69 | 70 | 75 | 79 | 81 | 80 | 80 | 77 | 80 | 67 | 56 | 50 | 49 | 55 | 56 | 51 | 46 | 59 | 58 | 69 | 60 | 63 | 54   | 65.9 |      |  |  |
|                                      | Minimum..... | 40 | 38 | 41 | 48 | 39 | 39 | 38 | 48 | 56 | 52 | 51 | 48 | 47 | 53 | 55 | 58 | 56 | 36 | 32 | 39 | 26 | 28 | 23 | 40 | 35 | 30 | 25 | 43 | 45 | 39 | 36   | 41.4 |      |  |  |
| Greensburg.....                      | Maximum..... | 55 | 67 | 69 | 67 | 70 | 78 | 82 | 72 | 76 | 80 | 81 | 80 | 84 | 82 | 83 | 79 | 70 | 45 | 47 | 46 | 40 | 51 | 46 | 44 | 41 | 58 | 64 | 61 | 56 | 56 | 47   | 63.8 |      |  |  |
|                                      | Minimum..... | 41 | 31 | 45 | 46 | 36 | 38 | 47 | 58 | 56 | 66 | 71 | 69 | 46 | 52 | 47 | 52 | 44 | 34 | 34 | 28 | 24 | 28 | 25 | 36 | 26 | 24 | 27 | 49 | 44 | 30 | 33   | 41.5 |      |  |  |
| Grove City.....                      | Maximum..... | 54 | 72 | 63 | 65 | 69 | 74 | 75 | 77 | 70 | 75 | 80 | 79 | 81 | 81 | 83 | 80 | 72 | 45 | 41 | 41 | 43 | 50 | 48 | 43 | 42 | 53 | 62 | 76 | 71 | 63 | 60   | 64.1 |      |  |  |
|                                      | Minimum..... | 31 | 3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |  |  |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. NOVEMBER, 1930. No. 11

## GENERAL SUMMARY.

Twelve days of mostly seasonable temperatures were followed by twelve days with a constant and fairly large excess. A short cold period occurred from the 27th to the 29th inclusive, accompanied by snows over a large portion of the State. During this period a new record was established for low November temperature in the State with a minimum of 15° below zero at Somerset on the 29th. The snow cover melted rapidly during the rains and rising temperature of the 30th, and had disappeared from most places at the close of the month. The precipitation for the month was a little more than one-half of the November normal, and there was no appreciable amount of snow in the southeastern counties. Most of the rains occurred from the 12th to the 18th inclusive. They were heavy enough to soak the top soil fairly well, and probably helped the winter grains to some extent, although growth had nearly ceased. Many fields were spotted, owing to a poor germination of the seed, and of that which came up the growth was so slow that much of it was not well rooted and well established to withstand the winter weather. The rains were not heavy enough to materially relieve the water shortage in any region, and for the State as a whole the condition gradually became more acute and alarming. Many springs and shallow wells were dry, and thousands of families were compelled to haul water for domestic uses. The month was free from severe or damaging storms, and much fine weather was favorable for outdoor work. Corn husking was nearly finished at the close of the month, and most of the fodder was hauled in from the fields. Building and construction work of all kinds made fair progress during the month. Considered as a whole, it was more pleasant and agreeable than the average November.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 89 stations, was 42.0°, or 1.0° above the November normal. The highest monthly mean was 47.6°, at Philadelphia Weather Bureau, and the lowest 34.8°, at Elk Lick. Extremes for the month ranged from a maximum of 75°, at Newell on the 21st, to a minimum of -15° at Somerset on the 29th. The greatest daily range of temperature was 52° at Huntingdon on the 8th.

## PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from observations made at 132 stations, was 1.48 inches, which is 1.33 inches less than normal for the month. The greatest monthly amount was 4.29 inches at Mount Pocono, while the least, 0.22 inch, fell at Ansonia. The greatest amount recorded in any 24 consecutive hours was 1.50 inches at Westford on the 30th. Snowfall averaged 2.3 inches, compared with a normal November amount of 2.6 inches. The greatest monthly total was 20.0 inches at Meadville and the greatest 24-hour fall was 9.0 inches at Linesville on the 26-27th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | Total movement, in miles | Wind                        |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         |                          | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | *Highest | Direction | Date |
| Erie.....         | 60.2                    | 294.9                    | 20                     | 77               | 69       | 71      | 10,598                   | 14.7                        | 42       | s.        | 30   |
| Harrisburg.....   | 126.4                   | 299.4                    | 42                     | 75               | 58       | 63      | 4,323                    | 6.0                         | 24       | sw.       | 25   |
| Philadelphia..... | 165.3                   | 299.4                    | 55                     | 71               | 62       | 65      | 8,248                    | 11.5                        | 38       | s.        | 30   |
| Pittsburgh.....   | 135.2                   | 297.0                    | 46                     | 76               | 60       | 64      | 6,209                    | 8.6                         | 34       | nw.       | 30   |
| Reading.....      | 98.0                    | 299.4                    | 33                     | 78               | 61       | 67      | 3,777                    | 5.2                         | 21       | nw.       | 6    |
| Scranton.....     | 133.4                   | 297.0                    | 45                     | 80               | 59       | 67      | 4,417                    | 6.1                         | 27       | nw.       | 6    |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR NOVEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 42.2        | 79      | 4      | 3.37          | 6.22     | 1.99  | 9           | 7             | 14     | 11                     |
| 1889..... | 41.8        | 73      | 10     | 6.72          | 10.16    | 2.72  | 5           | 8             | 17     | 15                     |
| 1890..... | 41.8        | 73      | 10     | 1.49          | 4.29     | 0.78  | 9           | 10            | 11     | 8                      |
| 1891..... | 39.7        | 76      | 6      | 2.65          | 5.70     | 1.09  | 9           | 8             | 13     | 9                      |
| 1892..... | 39.0        | 80      | 10     | 4.34          | 7.08     | 1.61  | 6           | 8             | 16     | 12                     |
| 1893..... | 39.2        | 68      | -4     | 2.93          | 5.69     | 1.16  | 8           | 11            | 11     | 8                      |
| 1894..... | 38.2        | 74      | 6      | 2.50          | 3.64     | 0.74  | 10          | 9             | 12     | 9                      |
| 1895..... | 42.9        | 73      | 6      | 2.48          | 5.73     | 0.97  | 10          | 8             | 11     | 10                     |
| 1896..... | 46.0        | 83      | 12     | 3.55          | 8.05     | 0.82  | 8           | 9             | 13     | 10                     |
| 1897..... | 41.6        | 76      | 2      | 5.23          | 7.04     | 2.37  | 6           | 8             | 16     | 14                     |
| 1898..... | 40.0        | 73      | 2      | 4.03          | 7.34     | 1.44  | 8           | 9             | 13     | 11                     |
| 1899..... | 41.5        | 72      | 8      | 2.66          | 4.86     | 0.61  | 10          | 8             | 12     | 7                      |
| 1900..... | 43.5        | 79      | 7      | 4.10          | 6.92     | 1.67  | 6           | 9             | 15     | 12                     |
| 1901..... | 36.0        | 76      | 7      | 2.56          | 5.00     | 1.23  | 7           | 8             | 15     | 8                      |
| 1902..... | 47.3        | 78      | 9      | 1.53          | 3.02     | 0.50  | 10          | 8             | 12     | 8                      |
| 1903..... | 36.9        | 78      | 0      | 2.18          | 5.33     | 0.88  | 11          | 8             | 11     | 7                      |
| 1904..... | 38.8        | 79      | -4     | 1.14          | 3.31     | 0.14  | 10          | 9             | 11     | 6                      |
| 1905..... | 39.1        | 68      | 5      | 2.47          | 3.72     | 1.08  | 11          | 8             | 11     | 9                      |
| 1906..... | 41.5        | 80      | 9      | 1.48          | 3.08     | 0.54  | 12          | 6             | 12     | 8                      |
| 1907..... | 39.8        | 70      | 4      | 3.60          | 7.52     | 1.05  | 13          | 8             | 9      | 10                     |
| 1908..... | 41.2        | 75      | -2     | 0.90          | 1.97     | 0.20  | 12          | 8             | 10     | 5                      |
| 1909..... | 46.4        | 80      | 15     | 1.40          | 3.97     | 0.26  | 12          | 8             | 19     | 7                      |
| 1910..... | 36.8        | 68      | 9      | 2.45          | 5.63     | 0.33  | 4           | 7             | 10     | 11                     |
| 1911..... | 37.8        | 77      | 7      | 2.84          | 5.68     | 0.99  | 4           | 7             | 12     | 10                     |
| 1912..... | 43.0        | 81      | 7      | 2.17          | 4.83     | 0.61  | 10          | 8             | 16     | 7                      |
| 1913..... | 43.9        | 79      | 10     | 3.05          | 6.34     | 1.43  | 10          | 8             | 15     | 11                     |
| 1914..... | 40.6        | 81      | -2     | 1.76          | 4.27     | 0.57  | 12          | 9             | 9      | 6                      |
| 1915..... | 42.1        | 79      | 13     | 2.28          | 5.32     | 0.22  | 10          | 9             | 11     | 10                     |
| 1916..... | 41.3        | 79      | 4      | 2.27          | 7.97     | 0.88  | 13          | 6             | 11     | 9                      |
| 1917..... | 37.6        | 69      | -5     | 0.63          | 1.37     | 0.12  | 14          | 6             | 9      | 5                      |
| 1918..... | 42.1        | 76      | 11     | 2.03          | 4.07     | 0.44  | 12          | 6             | 12     | 7                      |
| 1919..... | 41.2        | 76      | 11     | 5.35          | 8.45     | 1.84  | 11          | 7             | 12     | 12                     |
| 1920..... | 40.3        | 75      | 5      | 3.54          | 6.42     | 1.85  | 7           | 7             | 16     | 11                     |
| 1921..... | 42.3        | 80      | 3      | 5.75          | 9.14     | 3.20  | 5           | 7             | 18     | 16                     |
| 1922..... | 42.9        | 73      | 12     | 1.21          | 4.52     | 0.23  | 10          | 7             | 13     | 9                      |
| 1923..... | 40.7        | 70      | 10     | 2.83          | 6.84     | 1.55  | 12          | 5             | 13     | 10                     |
| 1924..... | 40.7        | 78      | -9     | 1.54          | 3.29     | 0.56  | 12          | 8             | 10     | 7                      |
| 1925..... | 39.5        | 71      | 4      | 3.56          | 6.07     | 1.50  | 11          | 7             | 12     | 10                     |
| 1926..... | 40.4        | 79      | -1     | 4.49          | 9.84     | 2.00  | 9           | 7             | 14     | 10                     |
| 1927..... | 46.2        | 85      | 10     | 4.95          | 11.36    | 2.21  | 7           | 7             | 16     | 14                     |
| 1928..... | 43.4        | 81      | 4      | 2.32          | 5.71     | 1.05  | 7           | 8             | 15     | 12                     |
| 1929..... | 41.1        | 81      | -10    | 3.39          | 5.07     | 1.89  | 8           | 8             | 14     | 12                     |
| 1930..... | 42.0        | 75      | -15    | 1.48          | 4.29     | 0.22  | 10          | 7             | 13     | 9                      |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |         | Date  | Lowest stage |         | Date | Flood stage |
|-------------------|-------------------|------------|---------|-------|--------------|---------|------|-------------|
|                   |                   | Mean       | Highest |       | Mean         | Highest |      |             |
| Port Jervis.....  | Delaware.....     | 1.8        | 2.4     | 23    | 1.3          | 10      | 18   |             |
| Phillipsburg..... | Delaware.....     | 0.6        | 1.2     | 18    | 0.2          | 4       | 22   |             |
| Mauch Chunk.....  | Lehigh.....       | 0.8        | 1.0     | 18    | 0.4          | 29      | 17   |             |
| Wilkes-Barre..... | Susquehanna.....  | 1.2        | 1.4     | 5     | 1.1          | 9       | 20   |             |
| Williamsport..... | Susquehanna.....  | -0.3       | -0.2    | 3     | -0.5         | 28      | 20   |             |
| Harrisburg.....   | Susquehanna.....  | 3.0        | 3.2     | 28    | 2.6          | 29      | 17   |             |
| Greensboro.....   | Monongahela.....  | 10.7       | 11.6    | 19    | 9.7          | 4       | 30   |             |
| West Newton.....  | Youghiogheny..... | 0.0        | 0.0     | ..... | 0.0          | .....   | 20   |             |
| Lock No. 4.....   | Monongahela.....  | 12.4       | 12.5    | 1     | 12.1         | 30      | 31   |             |
| Pittsburgh.....   | Ohio.....         | 9.6        | 9.8     | 20    | 9.5          | 1       | 25   |             |
| Beaver Dam.....   | Ohio.....         | 7.5        | 7.8     | 21    | 7.4          | 29      | 30   |             |



## Daily Precipitation for November, 1930—Continued from page 53

| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      | Total |      |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-------|------|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9 | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30   | 31   |       |      |
| Ohio Drainage.  |                |              |     |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |       |      |
| Beaver Dam      | Ohio           | .01          |     |     |     |     |     |     |     |   |    |     | .20 | .06 |     |     |     | .01 |     |     |     |     |     |     |     |     | .08 | .11 | T.  |     |      | .02  | 0.49  |      |
| Beaver Falls    | Beaver         | .07          |     |     |     | T.  | T.  | T.  |     |   |    |     | .21 | .09 |     |     |     | .19 | .01 |     |     |     |     |     |     |     | .04 | .07 | .02 |     |      | .02  | 0.72  |      |
| Bradford        | Allegheny      |              |     |     |     |     | .03 | .03 |     |   |    | T.  | .20 | .03 |     |     |     | .16 | T.  |     |     |     |     |     |     |     | .20 | T.  | .38 | .20 | 1.04 | 2.27 |       |      |
| Brookville      | do             |              |     |     |     | .05 | .09 |     |     |   |    | .14 | .18 | .01 |     | T.  |     | .08 |     |     |     |     |     |     |     | .08 | .11 | .22 | .09 |     | .71  | 1.76 |       |      |
| Butler          | Ohio           |              |     |     |     | T.  |     |     |     |   |    | .02 | .28 | .06 |     |     |     | .05 |     |     |     |     |     |     |     |     | .05 | .05 |     |     | .47  | 0.98 |       |      |
| Chambersville   | Allegheny      |              |     |     | T.  | .20 | T.  |     |     |   |    | .02 | .12 | .01 |     |     |     | .04 | .03 |     |     |     |     |     |     |     | .05 | .08 | .01 |     | .25  | 0.81 |       |      |
| Claysville      | Ohio           |              |     |     | .05 | .25 | T.  |     |     |   |    | .01 | .26 | .02 |     |     | T.  | .01 | .01 |     |     |     | T.  |     |     |     | .08 | .12 |     |     | T.   | .17  | 0.98  |      |
| Cloeff          | Allegheny      |              |     |     |     | .05 |     |     |     |   |    | .05 | .25 | .02 |     |     |     | .05 |     |     |     |     |     |     | .09 | .02 | .07 | .09 |     |     | .63  | 1.32 |       |      |
| Clymer          | Conemaugh      |              |     | .30 | T.  | T.  | T.  |     |     |   |    | .03 | .06 |     |     |     |     | .16 |     |     |     |     |     |     | T.  |     | .04 | .07 | .09 |     | .65  | 1.40 |       |      |
| Confluence      | Youghiogheny   | .12          |     |     |     |     | .06 |     |     |   |    |     |     |     |     |     |     |     | .60 |     |     |     |     |     |     | .12 | .10 | .15 | T.  | T.  |      | 1.15 |       |      |
| Corapolis       | Ohio           |              |     |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |       |      |
| Corry           | Allegheny      | .04          |     |     |     |     | .03 | .06 |     |   |    | .01 | .20 | .08 |     |     |     |     | .08 |     |     |     |     |     |     |     | .30 | .10 | .08 | .25 | 1.25 | 2.48 |       |      |
| Coudersport     | Allegheny      |              |     |     | .01 | .01 | .09 |     |     |   |    | .01 | .10 |     |     | .05 | .02 | T.  |     |     |     |     |     |     |     | .03 | T.  | .26 |     |     | 1.19 | 1.77 |       |      |
| Derry           | Conemaugh      |              |     |     |     | .19 |     |     |     |   |    |     | .04 |     |     |     |     | .20 |     |     |     |     |     |     |     |     | .20 | .16 | .06 |     | T.   |      | 0.85  |      |
| Donora          | Monongahela    |              |     |     | .25 |     |     | .01 |     |   |    | .04 | .09 | .08 |     |     |     | .03 | .10 |     |     |     |     |     |     |     | .05 | .01 | .05 | .01 | .36  | 1.04 |       |      |
| Ebensburg       | Conemaugh      |              |     |     | .05 | .05 |     |     |     |   |    | .02 | .05 |     |     |     |     | .28 | .20 |     |     |     |     |     |     |     | .02 | .40 | .10 | .10 | .20  | 1.47 |       |      |
| Elk Lick        | Youghiogheny   |              |     |     |     | .40 |     |     |     |   |    |     |     | .08 |     |     |     | .38 |     |     |     | .05 |     |     |     |     | .30 | .30 | .80 |     | .20  | 2.21 |       |      |
| Falls Creek     | Allegheny      |              |     |     |     | .14 |     |     |     |   |    | .02 | .14 | .06 |     |     |     | .02 |     |     |     |     |     |     |     |     | .16 | .05 | .19 |     | .73  | 1.51 |       |      |
| Franklin        | Allegheny      | .43          |     |     |     |     | .14 | T.  |     |   |    |     | .11 | .22 | .04 |     |     | .11 | .13 |     |     |     |     |     |     |     | .10 | .04 | .19 | .13 | .20  | 1.84 |       |      |
| Freeport        | do             | .01          |     |     |     | .05 | .01 | T.  |     |   |    |     | .21 | .23 |     |     |     | T.  | .02 |     |     |     |     |     |     |     | .08 | .08 | .03 |     | T.   |      | 0.72  |      |
| Greensboro      | Monongahela    | T.           |     |     |     | .13 | T.  |     |     |   |    |     | .07 | .03 | .02 |     |     |     | .30 |     |     |     |     |     |     |     | .08 | .01 | .01 |     |      |      | 0.65  |      |
| Greensburg      | Youghiogheny   | T.           |     |     |     | T.  | .20 | T.  |     |   |    | T.  | .06 | .02 | T.  | T.  | T.  | .19 | .08 |     |     | T.  | T.  |     |     |     | .12 | .15 | .03 | .01 | T.   | .10  | 0.96  |      |
| Greenville      | Beaver         | .09          |     |     |     |     | .06 | T.  |     |   |    | .04 | .32 | .19 |     |     |     | .14 | T.  |     |     |     |     |     |     |     | .09 | .06 | .41 | .06 | T.   | .90  | 2.86  |      |
| Grove City      | do             | .04          |     |     |     |     |     | .01 |     |   |    | .03 | .22 | .08 | .01 |     |     | .11 |     | .01 |     |     |     |     |     | T.  | .12 | .04 | .14 | T.  | .49  | 1.30 |       |      |
| Herr's Isl. Dam | Ohio           | T.           |     |     |     | .01 | .01 | T.  |     |   |    | T.  | .13 | .24 | T.  |     |     |     | .07 |     |     |     |     | T.  |     |     | .07 | .10 | .03 | T.  | T.   |      | 0.66  |      |
| Ingram          | do             | .01          |     |     |     | .02 | .03 | T.  |     |   |    | .05 | .34 | .04 |     |     |     | .04 |     |     |     |     |     |     | .03 | .09 | .13 | .01 |     | .18 |      | 0.97 |       |      |
| Irwin           | Youghiogheny   | T.           |     |     |     | .10 |     |     |     |   |    | T.  | .16 | .01 | T.  |     | T.  | .11 | .07 |     |     |     |     |     |     |     | .07 | .12 | .01 |     | .12  |      | 0.77  |      |
| Johnstown       | Conemaugh      | .04          |     |     |     | T.  | .20 | .01 |     |   |    | .08 | .04 | T.  |     | T.  | T.  | .37 |     |     |     |     | .02 |     |     |     | .38 | .11 | .06 | T.  | T.   | .21  | 1.54  |      |
| Kregar          | Youghiogheny   | T.           |     |     |     | .20 | .02 |     |     |   |    | .02 | T.  |     | T.  |     | T.  | .31 |     |     |     |     |     |     |     |     | .02 | .10 | .74 | .06 | T.   |      | .27   | 1.77 |
| Lock No. 4      | Monongahela    | .01          |     |     |     | .20 |     |     |     |   |    | .01 | .05 | .20 | .01 |     |     | T.  | .16 |     |     |     |     |     |     |     | .06 | .03 | .04 |     |      |      | 0.77  |      |
| Lycippus        | Conemaugh      |              |     |     |     | .20 | T.  |     |     |   |    |     | .02 |     |     |     |     | .27 |     |     |     |     |     |     |     |     | .03 | .40 | .11 |     | .45  |      | 1.48  |      |
| Meadville       | Allegheny      | .18          |     |     |     |     | .25 |     |     |   |    | T.  | .35 | .12 |     |     |     | .18 | .03 |     |     |     |     |     |     |     | .32 | T.  | .62 | .18 | .85  |      | 3.08  |      |
| Mount Lebanon   | Ohio           |              |     |     |     | T.  | .10 | T.  |     |   |    | T.  | .32 | .05 |     |     |     | .02 |     |     |     |     |     |     | T.  |     | .10 | .13 | T.  |     | .17  |      | 0.89  |      |
| New Castle      | Beaver         | .14          |     |     |     | .01 | .01 | .03 | .02 |   |    | .01 | .28 | .08 | .02 |     | .01 | .27 | .03 | .01 |     |     |     |     |     |     | .03 | .04 | .03 | .02 | .34  |      | 1.38  |      |
| Newell          | Monongahela    | .05          |     |     |     | .24 | T.  |     |     |   |    | .18 | .07 |     |     |     |     | .17 |     |     |     |     |     |     |     |     | T.  |     |     |     | .08  |      | 0.79  |      |
| Parkers Landing | Allegheny      | T.           |     |     |     | T.  | T.  | T.  |     |   |    | .18 | .14 | T.  |     |     |     | .15 |     |     |     |     |     |     |     |     | .03 | .03 | .40 | .05 | .03  |      | 1.01  |      |
| Pennline        | Beaver         | .17          | T.  |     |     |     | .09 | .03 |     |   |    |     | .16 | .16 |     |     |     | .01 | .11 |     |     |     |     |     |     |     | .10 | .27 | .64 | .07 | .05  | .26  | 2.12  |      |
| Pittsburgh      | Ohio           | T.           |     |     |     | .03 | .01 | T.  |     |   |    | .01 | .28 | .01 |     |     |     | T.  | .08 |     |     |     | T.  |     |     | .07 | .03 | .12 | .02 |     | .31  |      | 1.02  |      |
| Ridgway         | Allegheny      | .11          |     |     |     |     | .01 | T.  | T.  |   |    | T.  | .03 |     | .16 | .01 |     | .03 | T.  |     |     |     |     |     |     |     | .06 | T.  | .28 | T.  |      | .87  | 1.56  |      |
| Saltsburg       | Conemaugh      | .01          |     |     |     | .18 | .01 |     |     |   |    | .01 | .10 | .02 |     |     |     |     | .07 |     | .08 |     |     |     |     |     | .07 | .14 | .12 | .04 |      |      | 0.78  |      |
| Sharon          | Beaver         | .20          |     |     |     | T.  | T.  | T.  |     |   |    | .16 | .18 | T.  |     |     |     | .07 |     |     |     |     |     |     |     |     | T.  | T.  | .50 | T.  |      | T.   | 1.11  |      |
| Somerset        | Youghiogheny   | .02          |     |     |     | .02 | .24 | T.  |     |   |    | T.  | .03 |     |     | .01 | .05 | .36 | .18 |     |     |     |     |     |     |     | .11 | .20 | .10 | .02 | .15  |      | 1.49  |      |
| Springdale      | Allegheny      |              |     |     |     | .05 | .02 |     |     |   |    | T.  | .13 | .20 | .01 |     |     |     | .03 | T.  |     |     |     |     |     |     | .09 | .11 | .05 |     | T.   |      | 0.69  |      |
| Uniontown       | Monongahela    |              |     |     |     | T.  | .09 | T.  |     |   |    | .05 | T.  | .05 |     |     | T.  | .22 | .02 |     |     |     |     | .01 |     |     | .12 | .15 | .02 | .02 | .13  |      | 0.88  |      |
| Unity Reservoir | Youghiogheny   | T.           |     |     |     | .23 | T.  |     |     |   |    | .08 | T.  | .06 |     |     | T.  | .21 |     |     |     |     |     |     |     |     | .26 | .16 | .06 | T.  | .15  |      | 1.21  |      |
| Vandergrift     | Conemaugh      |              |     |     |     | .04 | .09 | T.  |     |   |    | .01 | .02 | .01 |     |     |     | .42 |     |     |     |     |     |     |     | .07 | T.  | .11 | .01 |     |      |      | 0.78  |      |
| Warren          | Allegheny      | .10          |     |     |     |     | .15 | .07 |     |   |    | .04 | .24 | .06 |     |     |     | .40 | .10 |     |     |     |     |     |     |     | .20 | .50 | .18 | .02 | .02  | .45  | 2.53  |      |
| Westford        | Beaver         | T.           | .14 |     |     |     | T.  |     |     |   |    | .40 | .30 |     |     |     |     |     |     |     |     |     |     |     |     |     | .04 | .14 | .18 |     | 1.50 | 2.70 |       |      |
| West Newton     | Youghiogheny   |              |     |     |     | .30 | .07 |     |     |   |    | T.  | .04 | .13 |     |     |     | T.  | .14 |     |     |     |     |     |     |     | .07 | .05 | .04 | T.  |      |      | 0.84  |      |
| Zelenople       | Ohio           |              |     |     |     |     |     |     |     |   |    |     | .85 | .31 | .13 |     |     |     |     |     |     |     |     |     | .68 |     |     |     | .25 | .32 | .09  |      | 2.63  |      |
| Lake Drainage.  |                |              |     |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |       |      |
| Erie            | Lake Erie      | T.           | T.  | T.  |     | T.  | T.  | T.  |     |   |    | .01 | .08 |     |     |     | T.  | T.  | .14 |     |     |     | .01 |     |     |     | .02 | .38 | .11 | .41 | .16  | T.   | .75   | 2.07 |
| Genesee         | do             | T.           |     |     |     |     | .13 | T.  |     |   |    |     | .09 | .02 |     |     |     | .18 | T.  | .05 |     |     |     |     |     |     | .30 |     | T.  | T.  | .40  |      | 1.12  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloesville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah.  
‡ Mdt. to mdt.



Daily Temperatures for November, 1930

| Stations     | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30   | 31   | Mean |
|--------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown    | Maximum 43 | 46 | 49 | 48 | 55 | 38 | 41 | 55 | 64 | 55 | 51 | 55 | 58 | 66 | 59 | 56 | 55 | 56 | 51 | 53 | 52 | 62 | 54 | 54 | 39 | 36 | 30 | 24 | 29 | 49   | 49.4 |      |
|              | Minimum 31 | 25 | 27 | 28 | 38 | 32 | 27 | 27 | 31 | 34 | 34 | 42 | 44 | 42 | 55 | 54 | 53 | 47 | 37 | 37 | 40 | 35 | 30 | 32 | 24 | 24 | 12 | 11 | 14 | 33.1 |      |      |
| Altoona      | Maximum 40 | 44 | 50 | 48 | 54 | 44 | 40 | 60 | 65 | 67 | 51 | 54 | 55 | 64 | 59 | 59 | 59 | 67 | 54 | 52 | 61 | 61 | 53 | 49 | 43 | 28 | 24 | 17 | 24 | 40   | 49.5 |      |
|              | Minimum 30 | 20 | 25 | 31 | 40 | 25 | 21 | 23 | 43 | 40 | 31 | 42 | 47 | 50 | 48 | 53 | 53 | 51 | 41 | 41 | 43 | 44 | 33 | 27 | 18 | 18 | 11 | 7  | 4  | 22   | 32.7 |      |
| Beaver Dam   | Maximum 41 | 48 | 49 | 51 | 51 | 41 | 40 | 57 | 62 | 56 | 56 | 51 | 55 | 61 | 63 | 69 | 68 | 65 | 64 | 64 | 69 | 68 | 61 | 50 | 49 | 27 | 28 | 19 | 40 | 51   | 52.1 |      |
|              | Minimum 30 | 23 | 37 | 26 | 41 | 27 | 18 | 20 | 28 | 26 | 32 | 48 | 48 | 46 | 41 | 47 | 50 | 42 | 35 | 35 | 40 | 39 | 35 | 29 | 25 | 23 | 9  | 7  | 4  | 31   | 31.4 |      |
| Bellefonte   | Maximum 41 | 48 | 50 | 47 | 59 | 34 | 40 | 59 | 64 | 58 | 48 | 58 | 57 | 64 | 58 | 60 | 65 | 68 | 53 | 52 | 63 | 59 | 53 | 52 | 35 | 29 | 24 | 19 | 29 | 51   | 49.6 |      |
|              | Minimum 26 | 16 | 24 | 24 | 34 | 24 | 18 | 17 | 22 | 30 | 24 | 45 | 48 | 51 | 53 | 56 | 51 | 48 | 41 | 35 | 31 | 40 | 27 | 19 | 23 | 21 | 10 | 5  | 1  | 19   | 29.4 |      |
| Brookville   | Maximum 43 | 46 | 45 | 55 | 53 | 31 | 41 | 54 | 63 | 59 | 51 | 52 | 55 | 64 | 59 | 64 | 63 | 65 | 62 | 58 | 72 | 57 | 51 | 53 | 33 | 30 | 20 | 18 | 33 | 49   | 50.0 |      |
|              | Minimum 18 | 15 | 21 | 22 | 20 | 23 | 18 | 15 | 23 | 23 | 25 | 41 | 46 | 37 | 43 | 45 | 43 | 31 | 30 | 33 | 37 | 32 | 22 | 19 | 19 | 19 | 8  | -9 | 21 | 24.4 |      |      |
| Butler       | Maximum 42 | 40 | 54 | 52 | 49 | 40 | 45 | 63 | 65 | 67 | 52 | 55 | 67 | 67 | 67 | 65 | 65 | 65 | 67 | 71 | 70 | 49 | 47 | 50 | 49 | 27 | 25 | 20 | 30 | 52   | 52.6 |      |
|              | Minimum 28 | 17 | 25 | 20 | 27 | 25 | 19 | 22 | 25 | 19 | 28 | 44 | 49 | 45 | 39 | 45 | 48 | 41 | 30 | 38 | 36 | 37 | 32 | 29 | 26 | 21 | 9  | 5  | -5 | 20   | 28.1 |      |
| Carlisle     | Maximum 45 | 52 | 50 | 48 | 65 | 56 | 42 | 60 | 71 | 65 | 55 | 57 | 57 | 65 | 61 | 60 | 65 | 67 | 62 | 53 | 54 | 62 | 59 | 51 | 43 | 40 | 32 | 25 | 34 | 40   | 53.2 |      |
|              | Minimum 33 | 22 | 20 | 28 | 45 | 33 | 20 | 14 | 27 | 34 | 32 | 44 | 51 | 51 | 54 | 56 | 58 | 56 | 48 | 41 | 29 | 46 | 35 | 20 | 33 | 21 | 20 | 11 | 2  | 14   | 33.3 |      |
| Catawissa    | Maximum 44 | 53 | 55 | 49 | 61 | 55 | 44 | 60 | 67 | 64 | 57 | 55 | 59 | 70 | 63 | 62 | 67 | 72 | 68 | 69 | 58 | 61 | 55 | 57 | 50 | 35 | 32 | 25 | 31 | 53   | 55.0 |      |
|              | Minimum 27 | 22 | 24 | 39 | 43 | 30 | 23 | 22 | 26 | 31 | 32 | 30 | 50 | 50 | 54 | 57 | 59 | 45 | 47 | 44 | 33 | 47 | 34 | 35 | 31 | 25 | 29 | 11 | 6  | 24   | 33.7 |      |
| Chambersburg | Maximum 47 | 52 | 57 | 48 | 66 | 50 | 49 | 59 | 71 | 73 | 53 | 55 | 57 | 70 | 68 | 69 | 67 | 73 | 58 | 55 | 60 | 63 | 61 | 53 | 43 | 40 | 30 | 25 | 33 | 44   | 55.0 |      |
|              | Minimum 34 | 21 | 21 | 32 | 44 | 33 | 23 | 19 | 35 | 31 | 36 | 44 | 49 | 51 | 53 | 59 | 57 | 57 | 50 | 41 | 33 | 49 | 40 | 24 | 29 | 22 | 15 | 11 | 5  | 16   | 34.5 |      |
| Claysville   | Maximum 44 | 51 | 55 | 49 | 53 | 39 | 41 | 60 | 65 | 66 | 57 | 56 | 60 | 68 | 68 | 68 | 66 | 69 | 69 | 72 | 70 | 66 | 54 | 50 | 42 | 28 | 24 | 18 | 48 | 54   | 54.3 |      |
|              | Minimum 25 | 20 | 35 | 24 | 37 | 24 | 12 | 18 | 36 | 25 | 31 | 42 | 50 | 46 | 45 | 51 | 54 | 50 | 46 | 46 | 37 | 32 | 37 | 21 | 21 | 6  | 5  | 1  | 38 | 30.8 |      |      |
| Clearfield   | Maximum 44 | 48 | 56 | 51 | 58 | 42 | 45 | 50 | 58 | 65 | 52 | 62 | 61 | 70 | 60 | 62 | 64 | 72 | 69 | 68 | 72 | 68 | 59 | 47 | 44 | 38 | 32 | 31 | 28 | 41   | 53.9 |      |
|              | Minimum 27 | 25 | 15 | 21 | 40 | 24 | 15 | 13 | 22 | 37 | 25 | 40 | 46 | 45 | 43 | 45 | 40 | 48 | 40 | 39 | 48 | 45 | 29 | 29 | 30 | 18 | 11 | 6  | 25 | 29   | 29.5 |      |
| Coatesville  | Maximum 44 | 50 | 53 | 49 | 53 | 50 | 41 | 53 | 68 | 60 | 54 | 58 | 57 | 55 | 61 | 61 | 65 | 59 | 57 | 54 | 53 | 61 | 54 | 55 | 47 | 41 | 31 | 25 | 31 | 47   | 51.6 |      |
|              | Minimum 32 | 26 | 23 | 40 | 46 | 33 | 24 | 25 | 33 | 42 | 33 | 40 | 42 | 46 | 54 | 57 | 57 | 53 | 42 | 35 | 40 | 44 | 33 | 29 | 32 | 25 | 21 | 13 | 10 | 21   | 35.0 |      |
| Corry        | Maximum 38 | 62 | 48 | 54 | 49 | 39 | 39 | 53 | 60 | 63 | 52 | 56 | 55 | 64 | 59 | 62 | 67 | 71 | 65 | 66 | 60 | 58 | 65 | 51 | 41 | 32 | 28 | 24 | 26 | 45   | 51.7 |      |
|              | Minimum 23 | 21 | 33 | 22 | 32 | 22 | 22 | 25 | 41 | 43 | 32 | 39 | 46 | 33 | 33 | 37 | 41 | 38 | 32 | 39 | 36 | 38 | 29 | 35 | 22 | 17 | 13 | 13 | 12 | 26   | 29.8 |      |
| Emporium     | Maximum 42 | 45 | 50 | 51 | 54 | 39 | 38 | 52 | 62 | 54 | 51 | 51 | 58 | 62 | 58 | 62 | 65 | 65 | 65 | 67 | 65 | 69 | 67 | 48 | 52 | 44 | 30 | 25 | 19 | 27   | 49   | 50.0 |
|              | Minimum 26 | 20 | 30 | 18 | 38 | 26 | 15 | 20 | 25 | 26 | 27 | 46 | 50 | 43 | 40 | 55 | 53 | 42 | 35 | 42 | 42 | 42 | 27 | 18 | 24 | 22 | 12 | 8  | -2 | 21   | 29.7 |      |
| Erie         | Maximum 42 | 43 | 50 | 52 | 48 | 36 | 39 | 54 | 62 | 55 | 55 | 51 | 56 | 65 | 64 | 66 | 69 | 63 | 66 | 63 | 67 | 48 | 50 | 50 | 36 | 31 | 25 | 21 | 44 | 46   | 50.6 |      |
|              | Minimum 37 | 33 | 40 | 37 | 36 | 28 | 29 | 34 | 47 | 44 | 43 | 48 | 50 | 48 | 49 | 55 | 56 | 47 | 46 | 48 | 48 | 38 | 36 | 36 | 21 | 23 | 10 | 12 | 34 | 37.4 |      |      |
| Franklin     | Maximum 47 | 58 | 52 | 56 | 49 | 35 | 43 | 58 | 66 | 63 | 50 | 50 | 56 | 68 | 65 | 66 | 65 | 72 | 66 | 64 | 70 | 58 | 52 | 52 | 43 | 38 | 23 | 22 | 42 | 50   | 53.3 |      |
|              | Minimum 28 | 20 | 25 | 23 | 23 | 24 | 24 | 20 | 21 | 28 | 29 | 32 | 44 | 44 | 41 | 48 | 40 | 34 | 35 | 38 | 36 | 32 | 32 | 29 | 19 | 9  | 6  | 8  | 2  | 8    | 27.9 |      |
| Freeland     | Maximum 37 | 49 | 48 | 43 | 45 | 43 | 40 | 55 | 64 | 52 | 51 | 48 | 54 | 65 | 57 | 57 | 61 | 53 | 55 | 59 | 58 | 51 | 48 | 42 | 33 | 23 | 18 | 16 | 6  | 40   | 47.6 |      |
|              | Minimum 26 | 23 | 29 | 33 | 38 | 23 | 17 | 26 | 40 | 37 | 32 | 36 | 45 | 47 | 51 | 52 | 52 | 51 | 42 | 38 | 37 | 40 | 30 | 33 | 26 | 18 | 10 | 3  | 5  | 20   | 32.0 |      |
| Genesee      | Maximum 38 | 48 | 50 | 48 | 50 | 40 | 35 | 49 | 60 | 46 | 52 | 53 | 61 | 61 | 62 | 60 | 63 | 64 | 62 | 64 | 70 | 65 | 49 | 52 | 45 | 48 | 35 | 16 | 26 | 40   | 50.0 |      |
|              | Minimum 28 | 25 | 18 | 15 | 37 | 22 | 10 | 20 | 42 | 38 | 28 | 42 | 47 | 49 | 34 | 53 | 49 | 38 | 33 | 42 | 32 | 40 | 30 | 23 | 30 | 12 | 11 | 4  | -7 | 24   | 29.0 |      |
| Gettysburg   | Maximum 44 | 51 | 53 | 46 | 61 | 52 | 45 | 58 | 68 | 70 | 56 | 57 | 55 | 64 | 62 | 60 | 65 | 67 | 58 | 53 | 54 | 64 | 59 | 52 | 48 | 40 | 32 | 21 | 32 | 42   | 53.0 |      |
|              | Minimum 32 | 23 | 21 | 38 | 45 | 32 | 21 | 18 | 30 | 39 | 33 | 43 | 50 | 50 | 54 | 55 | 58 | 56 | 49 | 49 | 37 | 49 | 36 | 25 | 31 | 25 | 20 | 12 | 6  | 24   | 35.4 |      |
| Greensburg   | Maximum 46 | 53 | 59 | 49 | 52 | 40 | 40 | 58 | 65 | 68 | 58 | 58 | 59 | 69 | 69 | 70 | 65 | 64 | 65 | 70 | 72 | 66 | 43 | 53 | 46 | 27 | 23 | 18 | 41 | 54   | 53.8 |      |
|              | Minimum 28 | 32 | 30 | 30 | 39 | 27 | 17 | 23 | 39 | 35 | 38 | 46 | 50 | 48 | 46 | 49 | 54 | 50 | 41 | 43 | 41 | 41 | 31 | 37 | 24 | 22 | 9  | 8  | 4  | 35   | 33.9 |      |
| Grove City   | Maximum 44 | 44 | 47 | 54 | 52 | 44 | 41 | 57 | 65 | 67 | 57 | 51 | 55 | 65 | 64 | 65 | 65 | 68 | 72 | 64 | 70 | 65 | 62 | 59 | 41 | 28 | 25 | 18 | 36 | 49   | 53.1 |      |
|              | Minimum 30 | 27 | 36 | 28 | 37 | 23 | 24 | 35 | 28 | 30 | 30 | 47 | 42 | 45 | 50 | 50 | 47 | 36 | 41 | 42 | 35 | 32 | 34 | 22 | 22 | 9  | -2 | 8  | 34 | 31.5 |      |      |
| Hamburg      | Maximum 48 | 50 | 52 | 58 | 55 | 53 | 43 | 56 | 62 | 54 | 53 | 57 | 59 | 60 | 60 | 61 | 59 | 57 | 53 | 53 | 62 | 60 | 53 | 52 | 48 | 40 | 36 | 30 | 40 | 52   | 52.8 |      |
|              | Minimum 22 | 18 | 20 | 32 | 45 | 32 | 26 | 15 | 23 | 30 | 27 | 33 | 40 | 42 | 44 | 57 | 58 | 56 | 48 | 34 | 34 | 40 | 32 | 28 | 34 | 30 | 18 | 11 | 6  | 20   | 31.8 |      |
| Harrisburg   | Maximum 45 | 48 | 52 | 49 | 61 | 40 | 44 | 58 | 68 | 62 | 54 | 58 | 56 | 61 | 62 | 62 | 64 | 63 | 56 | 54 | 53 | 61 | 56 | 52 | 45 | 38 | 29 | 22 | 32 | 48   | 51.8 |      |
|              | Minimum 34 | 27 | 29 | 40 | 40 | 31 | 28 | 25 | 38 | 44 | 38 | 44 | 51 | 50 | 55 | 56 | 58 | 56 | 51 | 43 | 42 | 43 | 38 | 35 | 29 | 27 | 16 | 13 | 13 | 26   | 37.3 |      |
| Hawley       | Maximum 44 | 50 | 50 | 45 | 49 | 45 | 37 | 53 | 62 | 61 | 48 | 52 | 57 | 64 | 58 | 57 | 53 | 56 | 55 | 53 | 65 | 61 | 50 | 54 | 48 | 33 | 29 | 20 | 27 | 44   | 49.3 |      |
|              | Minimum 36 | 20 | 19 | 23 | 41 | 27 | 22 | 24 | 34 | 32 | 22 | 38 | 45 | 44 | 52 | 52 | 50 | 51 | 44 | 33 | 30 | 45 | 30 | 20 | 33 | 23 | 20 | 9  | 4  | 21   | 31.4 |      |
| Huntingdon   | Maximum 43 | 49 | 53 | 50 | 59 | 51 | 41 | 64 | 68 | 67 | 54 | 57 | 58 | 62 | 61 | 61 | 65 | 70 | 60 | 55 | 64 | 62 | 58 | 49 | 46 | 32 | 27 | 20 | 27 | 35   | 52.5 |      |
|              | Minimum 25 | 15 | 13 | 23 | 43 | 31 | 21 | 12 | 20 | 25 | 24 | 41 | 48 | 51 | 53 | 53 | 55 | 54 | 41 | 46 | 32 | 51 | 35 | 13 | 23 | 21 | 16 | 10 | 8  | 15   | 30.6 |      |
| Johnstown    | Maximum 40 | 47 | 53 | 51 | 50 | 38 | 40 | 57 | 63 | 65 | 50 | 57 | 60 | 64 | 62 | 64 | 60 | 60 | 58 | 54 | 73 | 65 | 52 | 50 | 38 | 30 | 23 | 18 | 23 | 45   | 50.3 |      |
|              | Minimum 30 | 22 | 30 | 29 | 38 | 25 | 23 | 20 | 29 | 31 | 34 | 45 | 52 | 52 | 50 | 56 | 50 | 48 | 45 | 46 | 43 | 41 | 36 | 26 | 24 | 23 | 11 | 9  | 1  | 23   | 33.1 |      |
| Lancaster    | Maximum 48 | 48 | 48 | 50 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |







551.05  
UNPU. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

Vol. XXXV.

DECEMBER, 1930.

No. 12

## GENERAL SUMMARY.

December, as a whole, was moderately cold, the mean temperature being slightly below the normal. A moderate temperature excess accumulated during the first two weeks, but was more than counter-balanced during the remainder of the month. The extremes were less than usual. The precipitation averaged a little more than two-thirds of the December normal, and was very unevenly distributed. Most of it was rain in the south-eastern counties. Fairly heavy snows occurred in the north-western and northeastern counties and in Somerset County, being as much as two feet in some places. The precipitation, generally, was about enough to prevent a further intensification of the drought. In some sections the surface water supply was replenished in a satisfactory manner. Small streams started to flow again, and ponds were partly filled. A few places reported the drought as being still critical at the end of the month. In no region did the new water supply affect wells and springs that had gone dry. Water hauling for domestic uses continued at many places throughout the month. The winter grains were poor to fair, there being about as large an acreage in the one classification as in the other. Much grain was sown late last fall, the work being delayed in the hope that rains would put the top soil in better condition. The soil remained so dry that the seed was slow in germination, and a large amount failed to grow. This resulted in many spotted fields, and much of the grain did not get properly rooted before cold weather stopped its growth. The lack of snow covering in the chief wheat growing regions contributed further to the unfavorable conditions. No severe local storms were reported during the month. Outdoor work generally made fair progress. The main highways were mostly in good condition throughout the month.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 92 stations, was 30.0°, or 1.1° below the December normal. The highest monthly mean was 37.6°, at Marcus Hook, and the lowest 23.4°, at Gouldsboro. The highest recorded during the month was 59°, at York on the 10th, and the lowest was -15°, at Somerset on the 25th. The greatest daily range of temperature was 52°, at Somerset on the 25th.

## PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, computed from reports of 136-well distributed stations, was 2.29 inches, which is 0.94 inch less than normal for the month. The greatest monthly amount was 4.06 inches at Warren, and the least 0.82 inch at Zelienople. The greatest amount recorded in any 24 consecutive hours was 2.49 inches at New Park on the 26-27th.

Snowfall averaged 6.8 inches, compared with a December normal of 9.2. The greatest total snowfall for the month was 25.0 inches at Freeland, while the greatest 24-hour fall, 12.0 inches, occurred at Lakeville on the 26-27th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 44.0                    | 284.5                    | 15                     | 82               | 77       | 76      | 10,098                   | 13.6                        | 38        | se.       |
| Harrisburg.....   | 106.7                   | 290.6                    | 37                     | 70               | 58       | 65      | 4,844                    | 6.5                         | 26        | sw.       |
| Philadelphia..... | 150.7                   | 290.6                    | 52                     | 66               | 59       | 59      | 9,252                    | 12.4                        | 39        | nw.       |
| Pittsburgh.....   | 34.6                    | 287.3                    | 22                     | 78               | 73       | 75      | 7,243                    | 9.7                         | 34        | w.        |
| Reading.....      | 110.2                   | 290.6                    | 38                     | 76               | 63       | 66      | 4,250                    | 5.7                         | 23        | nw.       |
| Scranton.....     | 94.9                    | 287.3                    | 33                     | 82               | 71       | 74      | 4,301                    | 5.8                         | 20        | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR DECEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                       |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|-----------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | of inch or more prec. |
| 1888..... | 32.5        | 62      | -10    | 3.14          | 5.57     | 1.44  | 8           | 8             | 15     | 9                     |
| 1889..... | 39.6        | 73      | 0      | 2.77          | 5.05     | 0.85  | 7           | 9             | 11     | 12                    |
| 1890..... | 27.2        | 59      | -11    | 3.97          | 9.68     | 1.72  | 8           | 8             | 16     | 12                    |
| 1891..... | 38.4        | 68      | -3     | 4.09          | 6.53     | 2.00  | 12          | 8             | 11     | 10                    |
| 1892..... | 27.8        | 70      | -13    | 1.69          | 4.37     | 0.40  | 7           | 9             | 15     | 9                     |
| 1893..... | 32.2        | 70      | -7     | 3.06          | 6.07     | 1.41  | 6           | 11            | 14     | 12                    |
| 1894..... | 32.4        | 66      | -28    | 3.95          | 5.93     | 2.27  | 10          | 9             | 12     | 10                    |
| 1895..... | 34.2        | 70      | -10    | 3.22          | 6.55     | 1.40  | 10          | 9             | 12     | 7                     |
| 1896..... | 30.6        | 67      | -13    | 1.20          | 2.62     | 0.40  | 10          | 9             | 12     | 6                     |
| 1897..... | 33.0        | 73      | -6     | 3.95          | 6.25     | 1.28  | 6           | 8             | 17     | 12                    |
| 1898..... | 29.8        | 68      | -11    | 2.98          | 4.79     | 1.31  | 10          | 8             | 13     | 10                    |
| 1899..... | 31.5        | 73      | -11    | 3.04          | 6.00     | 1.18  | 10          | 10            | 11     | 10                    |
| 1900..... | 31.2        | 65      | -2     | 2.08          | 4.16     | 0.40  | 8           | 9             | 14     | 7                     |
| 1901..... | 29.1        | 77      | -18    | 5.91          | 10.26    | 2.62  | 7           | 9             | 15     | 11                    |
| 1902..... | 28.4        | 68      | -12    | 5.54          | 8.51     | 1.97  | 7           | 7             | 17     | 14                    |
| 1903..... | 25.4        | 60      | -14    | 2.66          | 4.83     | 0.92  | 8           | 9             | 14     | 9                     |
| 1904..... | 25.8        | 71      | -19    | 2.48          | 3.71     | 1.32  | 7           | 7             | 17     | 11                    |
| 1905..... | 33.6        | 65      | -5     | 3.57          | 5.48     | 0.95  | 10          | 7             | 14     | 8                     |
| 1906..... | 30.8        | 67      | -14    | 3.97          | 7.08     | 1.69  | 5           | 5             | 21     | 14                    |
| 1907..... | 33.2        | 68      | -8     | 4.30          | 7.89     | 1.85  | 7           | 8             | 16     | 12                    |
| 1908..... | 32.0        | 74      | -2     | 2.86          | 4.61     | 1.26  | 9           | 8             | 14     | 10                    |
| 1909..... | 27.0        | 71      | -10    | 3.39          | 8.50     | 1.19  | 9           | 8             | 14     | 8                     |
| 1910..... | 24.4        | 68      | -14    | 2.65          | 4.41     | 0.64  | 8           | 6             | 17     | 12                    |
| 1911..... | 36.3        | 70      | 5      | 3.27          | 5.99     | 0.75  | 7           | 5             | 19     | 13                    |
| 1912..... | 34.4        | 74      | -8     | 3.27          | 6.48     | 1.70  | 9           | 7             | 15     | 9                     |
| 1913..... | 34.2        | 66      | -7     | 2.63          | 4.11     | 0.69  | 9           | 7             | 15     | 8                     |
| 1914..... | 27.3        | 69      | -28    | 4.63          | 7.74     | 2.43  | 8           | 5             | 18     | 14                    |
| 1915..... | 29.4        | 70      | -7     | 4.06          | 6.53     | 1.36  | 6           | 8             | 17     | 12                    |
| 1916..... | 29.7        | 73      | -12    | 3.07          | 6.38     | 0.59  | 11          | 9             | 11     | 12                    |
| 1917..... | 21.5        | 52      | -28    | 1.78          | 5.16     | 0.60  | 10          | 8             | 13     | 8                     |
| 1918..... | 36.6        | 72      | -1     | 3.38          | 5.74     | 0.90  | 9           | 7             | 15     | 11                    |
| 1919..... | 25.3        | 66      | -23    | 2.61          | 4.75     | 0.95  | 9           | 8             | 14     | 11                    |
| 1920..... | 33.4        | 68      | -7     | 3.28          | 6.77     | 1.53  | 7           | 9             | 15     | 10                    |
| 1921..... | 31.6        | 66      | -11    | 2.59          | 6.25     | 0.91  | 8           | 8             | 15     | 10                    |
| 1922..... | 31.5        | 69      | -9     | 2.75          | 4.55     | 1.19  | 10          | 8             | 13     | 10                    |
| 1923..... | 39.6        | 71      | 1      | 4.99          | 8.55     | 2.42  | 9           | 7             | 15     | 14                    |
| 1924..... | 29.8        | 69      | -23    | 2.13          | 4.42     | 0.56  | 7           | 7             | 17     | 11                    |
| 1925..... | 30.7        | 62      | -15    | 1.72          | 3.93     | 0.69  | 8           | 7             | 16     | 10                    |
| 1926..... | 27.3        | 62      | -20    | 2.58          | 4.61     | 0.90  | 8           | 7             | 16     | 12                    |
| 1927..... | 32.7        | 73      | -6     | 4.41          | 8.93     | 2.16  | 9           | 6             | 16     | 13                    |
| 1928..... | 34.4        | 68      | -2     | 1.16          | 2.57     | 0.28  | 13          | 7             | 11     | 6                     |
| 1929..... | 32.2        | 70      | -9     | 2.77          | 4.95     | 1.21  | 7           | 6             | 18     | 12                    |
| 1930..... | 30.0        | 59      | -15    | 2.29          | 4.06     | 0.82  | 6           | 7             | 18     | 10                    |

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 2.2        | 2.9           | 3    | 1.6          | 1    | 18          |
| Phillipsburg..... | Delaware.....     | 1.0        | 1.7           | 29   | 0.5          | 1    | 22          |
| Mauch Chunk.....  | Lehigh.....       | 0.8        | 1.0           | 1    | 0.2          | 17   | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 2.0        | 2.6           | 9    | 1.3          | 3    | 20          |
| Williamsport..... | Susquehanna.....  |            |               |      |              |      | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.2        | 4.0           | 16   | 3.0          | 17   | 17          |
| Greensboro.....   | Monongahela.....  | 10.9       | 13.8          | 14   | 9.7          | 11   | 30          |
| West Newton.....  | Youghiogheny..... | 0.2        | 0.8           | 8    | 0.0          | 1    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.5       | 13.9          | 15   | 12.1         | 3    | 31          |
| Pittsburgh.....   | Ohio.....         | 10.2       | 11.3          | 9    | 9.6          | 1    | 25          |
| Beaver Dam.....   | Ohio.....         | 7.6        | 8.3           | 9    | 7.0          | 1    | 30          |



## Climatological Data for December, 1930

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |                   |                              |                        |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|-------------------|------------------------------|------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy        | Cloudy                       |                        |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |                   |                              |                        |
| Allentown          | Lehigh       | 254             | 19                      | 30.6                         |                           | 48      | 9    | 9      | 17   | 34                       | 2.79  | -1.06                     | 1.76                 | 3.5                       | 9                            | 18    | 9                            | 4         | sw.               | John A. Frick.               |                        |
| Altoona            | Blair        | 1,615           | 43                      | 27.8                         | -1.2                      | 47      | 1    | 3      | 17   | 28                       | 2.62  | +0.27                     | 1.35                 | 9.2                       | 13                           | 12    | 11                           | 8         | w.                | F. E. Rooney.                |                        |
| Arendtsville       | Adams        | 700             | 6                       | 30.2                         |                           | 52      | 1†   | 7      | 17   | 33                       | 2.29  |                           | 1.90                 | 2.0                       | 4                            | 8     | 8                            | 15        | nw.               | Dr. S. W. Frost.             |                        |
| Bellefonte         | Center       | 1,050           | 25                      | 26.8                         |                           | 43      | 9    | -2     | 25   | 34                       | 2.84  | -0.06                     | 1.95                 | 10.3                      | 7                            | 2     | 4                            | 25        | w.                | U. S. Weather Bureau.        |                        |
| Bethlehem          | Northampton  | 364             | 44                      | 33.0                         | -0.1                      | 52      | 1    | 10     | 16   | 32                       | 2.76  | -0.74                     | 1.55                 | 5.0                       | 9                            | 12    | 2                            | 17        | w.                | Lehigh University.           |                        |
| Carlisle           | Cumberland   | 467             | 64                      | 30.4                         | -0.9                      | 52      | 9    | 2      | 17   | 34                       | 2.73  | -0.28                     | 1.99                 | 9.0                       | 7                            | 8     | 8                            | 15        | nw.               | Prof. C. E. Miller.          |                        |
| Catawissa          | Columbia     | 520             | 34                      | 30.9                         | -0.7                      | 54      | 1    | 3      | 17†  | 35                       | 2.48  | -0.52                     | 1.48                 | 8.8                       | 8                            | 4     | 11                           | 16        | .....             | W. L. Gearhart.              |                        |
| Center Hall        | Center       | 1,272           | 34                      | 26.6                         | -2.4                      | 48      | 6    | 3      | 17   | 29                       | 2.56  | -0.19                     | 0.85                 | 14.0                      | 8                            | 3     | 16                           | 12        | .....             | S. W. Smith.                 |                        |
| Chambersburg       | Franklin     | 580             | 31                      | 30.8                         | -2.1                      | 52      | 1†   | 5      | 22   | 31                       | 2.77  | +0.15                     | 2.02                 | 7.8                       | 8                            | 5     | 7                            | 19        | w.                | William B. Spear.            |                        |
| Clearfield         | Clearfield   | 1,120           | 21                      | 28.8                         | +0.1                      | 50      | 3    | -2     | 17†  | 45                       | 1.61  | -1.48                     | 0.40                 | 5.5                       | 10                           | 4     | 13                           | 14        | w.                | E. W. Hess.                  |                        |
| Coatesville        | Chester      | 380             | 43                      | 32.1                         | -0.9                      | 52      | 1    | 9      | 16†  | 24                       | 2.69  | -1.53                     | 1.50                 | 1.5                       | 10                           | 11    | 4                            | 16        | nw.               | Howard L. Pyle.              |                        |
| Colebrook          | Lebanon      | 560             | 21                      | 29.4                         | -2.5                      | 49      | 9    | 2      | 17   | 30                       | 2.46  | -0.99                     | 1.30                 | 4.7                       | 9                            | 8     | 5                            | 18        | nw.               | Wm. A. Rorer.                |                        |
| Emporium           | Cameron      | 1,050           | 43                      | 28.2                         | -0.9                      | 46      | 9    | -5     | 17   | 41                       | 2.22  | -1.04                     | 0.92                 | 5.0                       | 10                           | 2     | 10                           | 19        | w.                | T. B. Lloyd.                 |                        |
| Ephrata            | Lancaster    | 380             | 30                      | 32.8                         | +1.5                      | 51      | 9    | 9      | 17   | 24                       | 2.65  | -0.86                     | 1.62                 | 3.0                       | 7                            | 10    | 4                            | 17        | sw.               | Ira J. Keath.                |                        |
| Freeland           | Luzerne      | 1,970           | 15                      | 26.6                         | -1.1                      | 45      | 1    | 1      | 16   | 27                       | 4.05  | +0.59                     | 2.10                 | 25.0                      | 16                           | 4     | 5                            | 22        | nw.               | Theo. Reichmann.             |                        |
| George School      | Bucks        | 190             | 24                      | 33.5                         | +1.2                      | 57      | 1    | 6      | 25   | 33                       | 2.46  | -1.32                     | 1.15                 | 8.7                       | 12                           | 13    | 4                            | 14        | w.                | Prof. N. W. Swayne           |                        |
| Gettysburg         | Adams        | 553             | 57                      | 32.2                         | +0.5                      | 51      | 10   | 7      | 17   | 27                       | 3.07  | -0.26                     | 2.40                 | 2.1                       | 11                           | 8     | 9                            | 14        | nw.               | Dr. Henry Stewart            |                        |
| Gordon             | Schuylkill   | 840             | 27                      | 28.6                         | +0.1                      | 48      | 1    | -1     | 17†  | 36                       | 2.56  | -1.71                     | 1.30                 | 16.0                      | 12                           | 8     | 3                            | 20        | w.                | Capt. J. G. Johnson          |                        |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 23.4                         | .....                     | 45      | 1    | -8     | 22†  | 39                       | 2.46  | -0.65                     | 0.68                 | 16.8                      | 13                           | 10    | 6                            | 15        | w.                | Gustav Holtz.                |                        |
| Hamburg            | Berks        | 535             | 37                      | 30.5†                        | -1.5                      | 51†     | 9    | 9†     | 16   | 35†                      | 3.65  | -0.20                     | 2.01                 | 0.5                       | 5                            | 9     | 14                           | 8         | w.                | State Sanatorium.            |                        |
| Hanover            | York         | 600             | 27                      | 33.4                         | -0.4                      | 50      | 1†   | 10     | 16   | 31                       | 3.41  | +0.03                     | 2.11                 | 4.2                       | 8                            | 9     | 7                            | 15        | w.                | Thomas Y. Cooper.            |                        |
| Harrisburg         | Dauphin      | 361             | 61                      | 32.2                         | -0.5                      | 51      | 9    | 12     | 16   | 29                       | 2.27  | -0.75                     | 1.89                 | 3.7                       | 5                            | 5     | 9                            | 17        | w.                | U. S. Weather Bureau.        |                        |
| Hawley             | Wayne        | 900             | 12                      | 27.8                         | .....                     | 49      | 1    | -6     | 25   | 42                       | 2.12  | -0.75                     | 1.13                 | 14.2                      | 12                           | 9     | 10                           | 12        | w.                | Mrs. Della M. Pennell.       |                        |
| Holtwood           | Lancaster    | 200             | 15                      | 33.4                         | .....                     | 52      | 2    | 12     | 17   | 33                       | 2.17  | -0.32                     | 1.60                 | 2.5                       | 8                            | 7     | 8                            | 16        | .....             | H. W. Lowy, C. E.            |                        |
| Huntingdon         | Huntingdon   | 650             | 43                      | 29.4                         | -2.1                      | 49      | 9    | 0      | 25   | 38                       | 2.91  | -0.17                     | 1.15                 | 2.5                       | 8                            | 7     | 4                            | 20        | w.                | Prof. Paul R. Yoder.         |                        |
| Hyndman            | Bedford      | 977             | 18                      | 30.0                         | -2.1                      | 53      | 4†   | 0      | 25   | 35                       | 3.13  | +0.24                     | 1.30                 | 6.7                       | 11                           | 4     | 0                            | 27        | .....             | Horace A. Sheavly.           |                        |
| Kylertown          | Clearfield   | 1,637           | .....                   | 25.7                         | .....                     | 44      | 3    | -7     | 17   | 33                       | 1.51  | .....                     | 0.30                 | 5.0                       | 8                            | 0     | 10                           | 21        | w.                | U. S. Bureau Plant Industry. |                        |
| Lancaster          | Lancaster    | 255             | 43                      | 29.1                         | -4.3                      | 49      | 10   | -2     | 16   | 33                       | 2.58  | -0.83                     | 2.06                 | 3.0                       | 7                            | 10    | 2                            | 19        | nw.               | Supt. of Water Works.        |                        |
| Lawrenceville      | Tioga        | 1,000           | 33                      | 28.6                         | +1.2                      | 48      | 1    | 0      | 25   | 38                       | 1.00  | -1.13                     | 0.40                 | 4.5                       | 5                            | 3     | 4                            | 24        | .....             | C. P. Darling.               |                        |
| Lebanon            | Lebanon      | 469             | 90                      | 32.4                         | +0.5                      | 49      | 1    | 8      | 16   | 27                       | 2.63  | -0.99                     | 1.73                 | 2.4                       | 9                            | 10    | 9                            | 12        | nw.               | S. B. Benzing.               |                        |
| Lewisburg          | Union        | 450             | 56                      | 30.2                         | +1.2                      | 49      | 1    | 3      | 22   | 34                       | 2.01  | -1.25                     | 0.80                 | 6.0                       | 9                            | 6     | 8                            | 17        | w.                | Prof. W. G. Owens.           |                        |
| Lock Haven         | Clinton      | 560             | 42                      | 31.6                         | +0.5                      | 47      | 9†   | 4      | 16†  | 31                       | 2.38  | -0.71                     | 1.99                 | 5.0                       | 10                           | 2     | 7                            | 22        | sw.               | Joseph Beaver.               |                        |
| Lykens             | Dauphin      | 680             | 16                      | 29.8                         | -0.9                      | 53      | 9    | -1     | 17   | 35                       | 2.29  | -0.74                     | 1.73                 | 5.0                       | 11                           | 9     | 13                           | 9         | nw.               | Susquehanna Collieries Co.   |                        |
| Mauch Chunk        | Carbon       | 600             | 41                      | 30.8                         | +0.3                      | 49      | 18   | 8      | 16   | 29                       | 2.71  | -1.53                     | 1.98                 | 5.9                       | 10                           | 10    | 5                            | 16        | nw.               | R. K. Wintermute.            |                        |
| Millintown         | Juniata      | 445             | 27                      | 30.2                         | 0.0                       | 48      | 1†   | 5      | 17†  | 30                       | 2.01  | -1.07                     | 1.00                 | 3.4                       | 8                            | 5     | 1                            | 25        | w.                | Wellington Smith.            |                        |
| Montrose           | Susquehanna  | 1,720           | 28                      | 25.0                         | -0.6                      | 41      | 10   | -1     | 17   | 33                       | 1.80  | -0.90                     | 0.40                 | 11.0                      | 6                            | 1     | 8                            | 22        | sw.               | Silas Jagger.                |                        |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 25.6                         | +0.6                      | 40      | 10   | 1      | 16   | 31                       | 3.88  | +0.05                     | 2.00                 | 15.5                      | 11                           | 8     | 7                            | 16        | nw.               | Cecil J. Hoskinson.          |                        |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 27.2                         | -0.5                      | 46      | 10   | -3     | 25   | 32                       | 1.72  | -1.30                     | 0.59                 | 7.7                       | 9                            | 9     | 9                            | 13        | n.                | H. O. Hacker.                |                        |
| Narberth           | Montgomery   | 300             | 11                      | 31.8                         | .....                     | 52      | 1    | 9      | 16†  | 24                       | 2.55  | .....                     | 1.37                 | 3.1                       | 11                           | 10    | 6                            | 15        | nw.               | Charles Decker.              |                        |
| Neshaminy Falls    | Bucks        | 60              | 41                      | 31.1                         | -0.7                      | 51      | 18   | 0      | 25   | 37                       | 2.11  | .....                     | 1.57                 | 6.5                       | 7                            | 11    | 2                            | 18        | sw.               | North Springfield Water Co.  |                        |
| Palmerton          | Carbon       | 398             | 14                      | 30.5                         | .....                     | 51      | 1    | 4      | 17   | 29                       | 1.65  | .....                     | 1.16                 | 3.9                       | 8                            | 4     | 15                           | 12        | w.                | New Jersey Zinc Co.          |                        |
| Philadelphia       | Philadelphia | 114             | 59                      | 36.6                         | +0.3                      | 57      | 1    | 14     | 16   | 31                       | 2.50  | -0.93                     | 2.08                 | 2.1                       | 8                            | 8     | 10                           | 13        | nw.               | U. S. Weather Bureau.        |                        |
| Philadelphia-Gtn.  | Philadelphia | 113             | 6                       | 36.0                         | .....                     | 57      | 1    | 14     | 16   | 29                       | 2.17  | .....                     | 2.0                  | 7                         | 8                            | 10    | 13                           | .....     | Julius Bernstein. |                              |                        |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 34.6                         | -0.4                      | 56      | 1    | 12     | 16   | 31                       | 2.51  | -0.77                     | 1.37                 | 3.8                       | 11                           | 6     | 8                            | 13        | 10                | w.                           | Commandant, Navy Yard. |
| Phoenixville       | Chester      | 100             | 20                      | 34.2                         | +0.9                      | 56      | 1    | 7      | 17   | 28                       | 2.77  | -0.45                     | 1.99                 | 1.0                       | 6                            | 8     | 13                           | 10        | nw.               | North Springfield Water Co.  |                        |
| Quakertown         | Bucks        | 496             | 46                      | 31.3                         | +0.2                      | 54      | 1    | 1      | 25   | 34                       | 2.63  | -0.91                     | 1.47                 | 5.8                       | 9                            | 9     | 8                            | 14        | nw.               | John E. Benner.              |                        |
| Reading            | Berks        | 325             | 61                      | 33.4                         | +1.2                      | 51      | 9    | 11     | 16   | 28                       | 2.61  | -0.95                     | 2.13                 | 2.0                       | 9                            | 7     | 9                            | 15        | nw.               | U. S. Weather Bureau.        |                        |
| Scranton           | Lackawanna   | 805             | 36                      | 29.9                         | -0.8                      | 50      | 1    | 7      | 17   | 33                       | 2.04  | -0.98                     | 0.67                 | 17.6                      | 15                           | 3     | 10                           | 18        | sw.               | U. S. Weather Bureau.        |                        |
| Selinsgrove        | Snyder       | 455             | 42                      | 30.4                         | -1.0                      | 51      | 9    | 0      | 25   | 34                       | 2.74  | -0.47                     | 1.38                 | 14.5                      | 8                            | 5     | 2                            | 24        | w.                | Dr. George E. Fisher.        |                        |
| Shawmont           | Philadelphia | 51              | 35                      | 33.8                         | .....                     | 51      | 1    | 9      | 17   | 29                       | 2.27  | -1.62                     | 1.25                 | 3.2                       | 8                            | 4     | 11                           | 16        | nw.               | W. S. Guiles.                |                        |
| State College      | Center       | 1,217           | 46                      | 28.5                         | -1.1                      | 49      | 1    | 4      | 17   | 31                       | 2.23  | -0.43                     | 1.12                 | 8.7                       | 9                            | 5     | 10                           | 16        | w.                | C. A. Kern.                  |                        |
| Stroudsburg        | Monroe       | 500             | 16                      | 29.1                         | -0.3                      | 50      | 18   | -1     | 17   | 48                       | 1.52  | -2.20                     | 0.37                 | 11.0                      | 8                            | 8     | 7                            | 16        | nw.               | State Normal School.         |                        |
| Towanda            | Bradford     | 754             | 36                      | 28.2                         | -0.4                      | 49      | 1    | -5     | 25   | 39                       | 2.00  | -0.37                     | 0.77                 | 8.8                       | 9                            | 2     | 8                            | 21        | e.                | Hiram E. Bull, C. E.         |                        |
| Wellsboro          | Tioga        | 1,419           | 66                      | 27.6                         | -0.6                      | 48      | 1    | -2     | 17   | 29                       | 1.12  | -1.48                     | 0.58                 | 6.3                       | 12                           | 6     | 9                            | 16        | sw.               | George W. Hill.              |                        |
| West Chester       | Chester      | 455             | 93                      | 34.0*                        | +0.1                      | 54*     | 1    | 10*    | 16   | 30*                      | 2.23  | -1.86                     | 1.55                 | 1.3                       | 4                            | 12    | 7                            | 12        | nw.               | Joseph W. Belt.              |                        |
| Williamsport       | Lycoming     | 521             | 44                      | 30.1                         | -0.4                      | 54      | 1    | 6      | 17   | 26                       | 2.22  | -0.83                     | 1.03                 | 2.9                       | 11                           | 5     | 1                            | 25        | w.                | Miss Veronica E. April.      |                        |
| York               | York         | 400             | 43                      | 31.8                         | -1.0                      | 59      | 10   | 4      | 17   | 33                       | 3.27  | +0.13                     | 2.01                 | 3.0                       | 6                            | 6     | 14                           | 11        | w.                | York Water Co.               |                        |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |                   |                              |                        |
| Beaver Dam         | Beaver       | 700             | 38                      | 31.0                         | -2.2                      | 49      | 9†   | 5      | 2    | 32                       | 2.05  | -0.67                     | 0.76                 | 2.1                       | 13                           | 4     | 5                            | 22        | sw.               | U. S. Engineer.              |                        |
| Bradford           | McKean       | 1,460           | 15                      | 27.0                         | -1.0                      | 42      | 1†   | -6     | 17   | 32                       | 1.78  | -1.35                     | 0.38                 | 11.5                      | 12                           | 2     | 10                           | 19        | w.                | Supt. Timber Pres. Plant.    |                        |
| Brookville         | Jefferson    | 1,173           | 40                      | 25.9                         | -2.0                      | 45      | 9    | -7     | 25   | 44                       | 1.90  | -0.93                     | 0.42                 | 8.5                       | 16                           | 14    | 6                            | 11        | .....             | John Fawcett.                |                        |
| Butler             | Butler       | 1,152           | 9                       | 30.0                         | .....                     | 50      | 10   | 1      | 17   | 38                       | 1.79  | .....                     | 1.00                 | 5.0                       | 8                            | 5     | 2                            | 24        | w.                | William C. Faust.            |                        |
| Chambersville      | Indiana      | 1,047           | .....                   | 29.4                         | -1.1                      | 54      | 1    | -2     | 17   | 43                       | 1.14  | -2.35                     | 0.68                 | 3.8                       | 12                           | 4     | 1                            | 26        | w.                | John E. Lewis.               |                        |
| Claysville         | Washington   | td              |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |                   |                              |                        |



Daily Precipitation for December, 1930

| Stations           | Drainage Basin | Day of month |     |     |     |      |     |     |     |   |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |      |      |      |      |     |     |      | Total |      |
|--------------------|----------------|--------------|-----|-----|-----|------|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|------|-------|------|
|                    |                | 1            | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9 | 10  | 11  | 12  | 13  | 14  | 15  | 16 | 17  | 18 | 19  | 20  | 21  | 22  | 23  | 24  | 25   | 26   | 27   | 28   | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |     |     |     |      |     |     |     |   |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |      |      |      |      |     |     |      |       |      |
| Allentown          | Lehigh         | .56          | T.  |     |     |      | .08 |     |     |   |     | .05 | .04 |     |     |     |    |     |    | .11 |     |     | .07 | .12 |     |      | 1.55 | .21  |      | T.  |     | 2.73 |       |      |
| Altoona            | Juniata        | .06          | .03 |     |     | 1.35 | T.  |     |     |   | .17 | .03 |     | T.  | T.  |     |    | .02 |    | .15 | .16 | .03 |     | .05 |     | .22  | .27  |      |      | .08 |     | 2.62 |       |      |
| Ansonia            | W. Br. Susq.   | .93          | .01 |     |     | .03  | .45 |     |     |   |     | .09 | T.  |     | T.  |     |    |     |    | .15 | .15 | T.  | .05 | T.  |     |      | .04  |      |      |     |     | 1.79 |       |      |
| Arendtsville       | Lower Susq.    |              |     |     |     | .03  | .16 |     |     |   |     |     |     |     |     |     |    |     |    | T.  | .20 |     |     |     |     | 1.90 |      | T.   |      |     |     | 2.29 |       |      |
| Baker's Summit     | Juniata        | .02          |     |     |     | .91  | .11 |     |     |   | .21 | .02 |     |     |     |     |    |     |    | .15 | .23 |     |     |     |     |      | .45  | .69  |      |     | .03 |      | 2.82  |      |
| Bellefonte         | W. Br. Susq.   | .02          |     |     |     | 1.95 | T.  | T.  |     |   | .09 | T.  |     | T.  | T.  |     |    |     |    | .15 | T.  | .01 |     | T.  | T.  |      | .23  | .39  | T.   | T.  | T.  |      | 2.84  |      |
| Bethlehem          | Lehigh         | .47          |     |     |     | T.   | .05 |     |     |   | T.  | .11 |     |     |     |     |    |     |    | .13 |     | T.  |     | .31 | .02 |      |      | .11  | 1.55 |     | .01 | T.   |       | 2.76 |
| Blossville         | Lower Susq.    | T.           |     |     |     | .24  | .18 |     |     |   | .03 |     |     |     | .02 |     |    |     |    | .20 |     |     |     |     |     |      | .70  | .30  |      | .02 |     |      | 1.69  |      |
| Carlisle           | Lower Susq.    |              |     |     |     | .26  | .16 |     |     |   | .04 | .02 |     | T.  | T.  |     |    |     |    | T.  | .26 | T.  |     | .05 |     |      | .48  | 1.51 | T.   | .02 |     |      | 2.73  |      |
| Catawissa          | N. Br. Susq.   | T.           |     |     |     | .25  | .01 |     |     |   | .03 | .02 |     |     |     |     |    |     |    | .10 | .36 | T.  |     |     |     |      | .54  | 1.48 | T.   |     |     |      | 2.48  |      |
| Center Hall        | Susquehanna    | .14          |     |     |     | .85  | .18 |     |     |   | .22 | T.  |     |     |     |     |    |     |    | .14 | .36 |     |     |     |     |      | .15  | .52  |      |     |     |      | 2.56  |      |
| Chambersburg       | Potomac        | .04          |     |     |     | .27  | .07 |     |     |   | T.  | T.  |     |     |     |     |    |     |    | .02 | .17 | .18 | T.  |     |     |      | .68  | 1.34 | T.   |     | T.  |      | 2.77  |      |
| Clearfield         | W. Br. Susq.   | .36          |     |     |     | T.   | .40 | .20 |     |   | .22 |     |     |     | T.  |     |    |     |    | .02 | .17 | .18 | T.  |     |     |      | .02  | .03  | T.   |     | .03 | T.   | 1.61  |      |
| Coatesville        | Lower Del.     | .05          |     |     |     | T.   | .11 | .01 |     |   | .02 |     |     |     |     |     |    |     |    | .06 | .10 |     |     |     | .02 | .05  |      | .77  | 1.50 |     |     |      | 2.69  |      |
| Colebrook          | Lower Susq.    | .04          |     |     |     | .22  |     |     |     |   | T.  | .02 |     |     | T.  | .01 |    |     |    | .17 |     |     |     | T.  | T.  |      | .70  | 1.30 | T.   | T.  | T.  |      | 2.46  |      |
| Conshohocken       | Schuylkill     | .05          |     |     |     | .04  | T.  |     |     |   | .20 | .04 |     |     |     |     |    |     |    | .02 | .01 |     |     | .50 | .21 | T.   | .52  | .46  |      |     |     |      | 1.85  |      |
| Cresson            | Juniata        | .04          |     |     |     | 1.20 | .48 |     |     |   | T.  | .02 |     |     |     |     |    |     |    | .38 |     | .12 |     |     |     |      | .56  |      |      |     |     |      | 3.14  |      |
| Doylestown         | Lower Del.     | .08          |     |     |     | T.   | T.  |     |     |   | T.  | .16 |     |     |     |     |    |     |    | T.  |     |     |     | .23 |     |      | .40  | 1.31 |      |     | T.  | .12  |       | 2.04 |
| Driftwood          | W. Br. Susq.   | .80          |     | .02 |     | .52  | .45 | .05 | .02 |   | .16 | .07 |     |     | .04 |     |    |     |    | .15 | .07 | .04 |     |     |     | .05  |      | T.   |      |     | .03 | .10  |       | 2.52 |
| Emporium           | do.            | .40          |     |     |     | .92  | .11 | .11 |     |   | .14 | .07 | T.  | T.  | T.  |     |    |     |    | T.  | .12 | .20 |     | T.  |     | .05  | .10  |      |      |     |     |      | 2.22  |      |
| Ephrata            | Lower Susq.    | .17          | T.  |     |     | .01  | .19 |     |     |   | .02 |     |     |     |     |     |    |     |    | T.  | .14 |     |     |     | T.  |      | .50  | 1.62 |      |     | T.  | T.   |       | 2.65 |
| Forest City        | N. Br. Susq.   | .35          | T.  |     | T.  | T.   | .04 |     |     |   | .08 | .09 | .01 | .03 | T.  |     |    |     |    | .30 | .02 | .04 | .05 | .38 | .06 |      | .08  | .30  | .10  | .05 | .05 | .05  | 2.13  |      |
| Freeland           | Lehigh         | .51          | .01 |     |     | .21  | .04 | T.  |     |   | .09 | .03 |     | .03 | T.  |     |    |     |    | .25 | T.  | .08 | .06 | .32 | .10 |      | .21  | .10  | T.   | .03 | .07 | .12  | 4.05  |      |
| George School      | Lower Del.     | .07          | .01 |     |     | .04  |     |     |     |   | .02 |     |     | .02 |     |     |    |     |    | .02 | .03 |     |     | .47 | .01 |      | .64  | 1.15 |      |     | .01 |      | 2.49  |      |
| Gettysburg         | Potomac        | .09          |     |     |     | .03  | .30 |     |     |   | T.  | .04 |     |     | .01 |     |    |     |    | .01 | .04 | .14 |     |     |     |      | .58  | 1.82 | T.   |     | .01 | T.   | 3.07  |      |
| Girardville        | Lower Susq.    | .05          |     |     |     | .17  | .02 |     |     |   | .01 | .06 |     | .01 |     |     |    |     |    | .36 | T.  | .05 |     |     | .25 |      |      | 1.10 | .69  | .01 | .08 |      | 2.86  |      |
| Gordon             | Lower Susq.    | .12          | .10 |     |     | .05  | .03 |     |     |   | .05 | .05 | T.  |     |     |     |    |     |    | .12 | T.  |     |     | .10 | .10 |      | .46  | 1.30 |      |     | .10 |      | 2.56  |      |
| Gouldsboro         | Lehigh         | .68          | .04 |     |     | .03  | .05 |     |     |   | .16 |     |     |     | .03 |     |    |     |    | .18 |     | .09 | .21 | .18 |     |      |      | .45  |      |     | .09 | .27  | 2.46  |      |
| Graterford         | Schuylkill     | .29          |     |     |     | .07  | .02 |     |     |   | T.  |     |     |     |     |     |    |     |    |     |     |     |     | .18 |     |      | .21  | 1.72 |      |     | .04 |      | 2.53  |      |
| Hamburg            | Schuylkill     |              |     |     |     | .91  |     |     |     |   | .01 |     |     |     |     |     |    |     |    | .22 |     |     |     |     |     |      | .50  | 2.01 |      |     |     |      | 3.65  |      |
| Hanover            | Lower Susq.    | .27          |     |     |     | .01  | .37 |     |     |   | .01 |     |     | T.  | T.  |     |    |     |    | .11 |     |     |     |     |     |      | .51  | 2.11 |      |     | .02 | T.   | 3.41  |      |
| Harrisburg         | do.            | T.           |     |     |     | .14  | T.  |     |     |   | T.  | T.  |     | T.  | T.  |     |    |     |    | .22 | T.  |     |     |     |     |      | .76  | 1.13 | .02  | T.  | T.  |      | 2.27  |      |
| Hawley             | Upper Del.     | .18          | T.  |     |     | .01  | T.  |     |     |   | .11 | .02 |     | .01 |     |     |    |     |    | .19 | .01 | .01 | .12 | .33 |     |      |      | 1.02 | .11  | T.  |     | T.   | 2.12  |      |
| Hollisterville     | Upper Del.     | .34          | .02 |     |     | .06  | .02 |     |     |   | .09 | .03 |     | .03 |     |     |    |     |    | .20 | T.  | .06 | .11 | .60 |     |      |      | 1.14 | .03  | .05 | .02 | .02  | 2.82  |      |
| Holtwood           | Lower Susq.    | .27          |     |     |     | .01  | .12 | .02 |     |   | T.  | .01 |     |     |     |     |    |     |    | .10 |     |     |     |     |     |      | T.   | 1.60 |      |     | .04 |      | 2.17  |      |
| Huntingdon         | Juniata        | T.           |     |     |     | 1.15 | .24 |     |     |   | .14 | .06 |     |     | T.  |     |    |     |    | .02 |     |     |     |     |     |      | .51  | .55  |      |     |     |      | 2.91  |      |
| Hyndman            | Potomac        | .04          |     |     |     | 1.30 | .05 | T.  |     |   | .18 | .01 |     |     |     |     |    |     |    | .13 | .11 | T.  |     |     |     |      | .55  | .72  | T.   | T.  | .01 |      | 3.13  |      |
| Kylestown          | W. Br. Susq.   | .10          |     |     | .30 | .30  | .30 |     |     |   | .07 | .06 |     |     | T.  |     |    |     |    | .28 | T.  |     |     |     |     |      | T.   | .10  | T.   |     |     |      | 1.51  |      |
| Lakeville          | Upper Del.     | .29          | T.  |     |     | T.   | .03 | T.  |     |   | .15 | T.  |     | .05 | T.  |     |    |     |    | .21 | .07 | T.  | .12 | .30 | T.  |      | T.   | 1.10 | T.   |     | .10 | T.   | 2.42  |      |
| Lancaster          | Lower Susq.    | .15          |     |     |     | .02  | .23 |     |     |   | .02 |     |     |     |     |     |    |     |    | .10 |     |     |     |     |     |      | .36  | 1.70 |      |     |     |      | 2.58  |      |
| Lansford           | Lehigh         | .58          | T.  |     |     | .40  | .15 | T.  |     |   | T.  | T.  |     |     | T.  | .05 |    |     |    | .10 | T.  |     |     | .30 |     |      | T.   | 1.13 | *    | .01 | .01 |      | 2.03  |      |
| Lawrenceville      | N. Br. Susq.   | T.           | T.  |     |     | .40  | .15 | T.  |     |   | T.  | T.  |     |     | T.  | .05 |    |     |    | .10 | T.  |     |     | .30 |     |      | T.   | T.   |      |     |     |      | 1.00  |      |
| Lebanon            | Lower Susq.    | .10          | T.  | T.  |     | .05  | .10 | .16 | T.  |   | T.  | .02 |     |     | T.  | T.  |    |     |    | .18 | T.  |     |     | T.  | T.  |      | .28  | 1.73 | T.   | .01 | T.  |      | 2.63  |      |
| Lewisburg          | W. Br. Susq.   | .07          | T.  |     |     | .30  | .17 | T.  |     |   | .02 | .04 |     |     | T.  |     |    |     |    | .32 | .03 | T.  |     |     |     |      | .26  | .80  | T.   | T.  | T.  |      | 2.01  |      |
| Lloyd              | do.            |              |     |     |     |      |     |     |     |   | .11 | .20 |     |     | T.  |     |    |     |    | .25 | .04 |     |     |     |     |      | .05  | .20  |      |     |     |      | 2.38  |      |
| Lock Haven         | do.            | .10          | .05 |     |     | .39  | .99 |     |     |   | .11 | .20 |     |     | T.  |     |    |     |    | .24 | .01 |     |     | .01 | .03 |      | .32  | 1.41 |      |     |     |      | 2.29  |      |
| Lykens             | Susquehanna    | .10          | T.  |     |     | .09  | .03 | T.  |     |   | .07 | T.  |     |     | T.  | .01 |    |     |    | .08 | T.  |     |     | .18 |     |      | .55  | 1.43 | .02  |     |     |      | 2.71  |      |
| Mauch Chunk        | Lehigh         | .09          |     |     |     | .07  | .11 |     |     |   | .04 | .03 |     |     | T.  | T.  |    |     |    | .11 | .08 | T.  |     |     | .18 |      |      | .31  | .69  |     |     |      | 2.01  |      |
| Millintown         | Juniata        | .01          |     |     |     | .34  | .34 |     |     |   | .04 | .03 |     |     |     |     |    |     |    | .25 |     |     |     |     |     |      |      |      |      |     |     |      |       |      |
| Montrose           | N. Br. Susq.   | T.           | T.  |     |     | .40  |     | T.  |     |   | .40 | T.  |     |     | T.  | T.  |    |     |    | .40 |     | .25 | .25 |     |     |      | T.   |      |      |     | .10 | T.   | 1.80  |      |
| Morris Run         | N. Br. Susq.   | .35          | .03 |     |     | .92  | .28 | .04 |     |   | .03 | .03 |     |     | .05 |     |    |     |    | .22 | .06 |     | .03 | .09 |     |      | .08  |      |      |     |     |      | 2.21  |      |
| Mount Pocono       | Upper Del.     | .03          |     |     |     | .05  | .06 |     |     |   | .30 | .03 |     |     | T.  |     |    |     |    | .45 |     | .60 | .12 |     |     |      | 2.00 | .10  |      | .14 | T.  |      | 3.88  |      |
| Muncy Valley       | W. Br. Susq.   | .27          |     |     |     | .44  | .15 | T.  |     |   | .01 |     |     |     | T.  |     |    |     |    | .32 | T.  |     | .09 | .07 |     |      | .08  | .29  | T.   | T.  |     |      | 1.72  |      |
|                    |                |              |     |     |     |      |     |     |     |   |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |      |      |      |      |     |     |      |       |      |



## Daily Precipitation for December, 1930—Continued from page 58

| Stations           | Drainage Basin    | Day of month |     |    |   |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      | Total |      |
|--------------------|-------------------|--------------|-----|----|---|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                    |                   | 1            | 2   | 3  | 4 | 5    | 6    | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Ohio Drainage.     |                   |              |     |    |   |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Beaver Dam\|\|\| | Ohio.....         | .42          | .05 | T. |   |      | .76  | .22 | .05  |     |     | .16 | .03 |     |     |     | .05 | T.  |     |     |     |     |     |     | .02 | T.  | .03 | .12 |     |     | .10 | .04  | 2.05  |      |
| Beaver Falls\|\|\| | Beaver.....       | .31          | .05 |    |   |      | .64  | .22 | .02  | T.  |     | .11 | .02 | T.  |     |     | T.  | T.  |     |     |     | .01 | .01 | T.  |     | T.  | .02 | .18 |     | T.  | .05 | .03  | 1.67  |      |
| Bradford.....      | Allegheny.....    | .14          |     |    |   |      | .38  | .05 | .12  |     |     | .04 | .22 |     | T.  |     | T.  | T.  |     |     | .05 | .05 | .10 |     | .10 |     | .33 |     |     | .20 | T.  | 1.78 |       |      |
| Brookville.....    | do.....           | .10          |     |    |   | .35  | .42  | .05 | .04  |     |     | .10 | .12 |     | T.  |     | T.  |     |     |     | .17 | .07 | .08 |     | .03 | .05 | .16 |     |     | .07 | .07 | .02  | 1.90  |      |
| Butler.....        | Ohio.....         | .04          |     |    |   |      | 1.00 | .12 | T.   |     |     | .16 |     |     |     |     |     |     |     | .05 |     |     |     | .06 |     | .21 |     |     |     |     | .15 |      | 1.79  |      |
| Chambersville..... | Allegheny.....    |              |     |    |   |      | .68  |     | .04  |     |     | .06 | .03 |     |     |     |     | T.  |     |     | .06 | .13 | .02 |     | .01 | .01 | .06 | .01 |     |     | .03 |      | 1.14  |      |
| Claysville.....    | Ohio.....         | .26          |     |    |   |      | .76  | .15 | .04  |     |     | .14 | T.  |     | T.  |     |     |     |     | .03 | .02 | .03 |     | .02 |     |     | .10 | .27 |     |     | .04 |      | 1.86  |      |
| Cloet\|\|\| | Allegheny.....    | T.           |     |    |   | .01  | .65  |     |      |     |     | .09 | .10 |     |     |     |     |     |     | .18 |     | .18 |     | .04 |     | .08 |     | .06 |     | T.  | .15 | .08  | 1.29  |      |
| Clymer\|\|\| | Conemaugh.....    | T.           |     |    |   | .32  | .30  | T.  | T.   |     | T.  | .08 | T.  |     |     |     |     |     | .18 |     | .15 | .24 | .04 |     | .15 | T.  | T.  |     |     | .15 | .22 | T.   | 1.83  |      |
| Confluence\|\|\| | Youghiogheny..... | .20          | .10 |    |   |      | .50  | .98 | .12  | .05 |     |     | .17 |     |     |     |     | .04 |     | .13 |     | .26 |     |     |     | .05 |     |     | .93 |     | .05 | .10  |       | 3.68 |
| Coraopolis\|\|\| | Ohio.....         |              |     |    |   |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Corry.....         | Allegheny.....    | .19          | .32 |    |   |      | .08  | .04 | .14  |     |     | .05 | .18 |     |     |     | .06 | .02 |     |     |     | .03 | .15 |     | .06 | .13 |     | .30 |     |     |     | .43  | .03   | 2.21 |
| Coudersport.....   | Allegheny.....    | .18          |     |    |   | .50  | .38  |     | .14  |     |     | .21 | .01 |     | T.  |     |     |     | T.  |     | .13 |     | .03 |     | .04 |     | .02 | .02 |     |     | .06 | .01  | 1.73  |      |
| Derry.....         | Conemaugh.....    | .23          |     |    |   |      | 1.01 | .09 | .13  |     |     | .16 |     |     |     |     |     | T.  | T.  |     | .16 | .10 | T.  |     | .03 | .03 |     | .11 | .15 |     | .10 |      | 2.30  |      |
| Donora\|\|\| | Monongahela.....  | .36          | .01 |    |   |      | 1.00 | *   | .05  |     |     | .13 | .01 |     |     |     | .01 | T.  | T.  |     |     | .08 | T.  |     | T.  | T.  |     | .08 | .17 | T.  |     | .01  | 1.91  |      |
| Ebensburg.....     | Conemaugh.....    | .02          | T.  | T. |   |      | .80  | .09 | .02  |     |     | .14 | .02 |     |     |     | .02 |     |     | T.  | .38 | .05 | .01 |     | .02 |     | .02 | .09 |     |     | .05 |      | 1.69  |      |
| Elk Lick.....      | Youghiogheny..... |              | .10 |    |   |      | .70  |     | .20  | .10 |     | .62 |     | .10 |     |     | .10 |     |     |     | *   | *   |     |     | .10 | .20 |     | .60 |     |     | .40 |      | 3.72  |      |
| Falls Creek.....   | Allegheny.....    | .08          |     |    |   |      | .62  | .73 | .02  |     |     | .09 | .18 |     |     |     |     |     |     |     |     | .40 |     | .37 |     | .07 |     | .08 |     |     | .10 |      | 2.34  |      |
| Franklin\|\|\| | Allegheny.....    | .78          | .10 |    |   |      | .47  | .20 | .04  |     |     | .03 | .04 |     |     |     |     |     |     | .02 |     | .10 | .11 |     | .06 |     | .35 | .03 |     | .14 | .02 | 2.47 |       |      |
| Freeport\|\|\| | do.....           | .53          | .04 |    |   |      | 1.07 | .28 | .01  | T.  |     | .07 | .15 | .01 |     |     |     |     |     |     | .06 | .01 |     |     | T.  |     | .03 | .13 |     | .02 | .01 |      | 2.44  |      |
| Greensboro.....    | Monongahela.....  | .36          | .01 |    |   |      | .52  | .20 | .09  | .02 |     | .03 | .09 | T.  |     |     | .03 |     |     | .03 |     | .16 | T.  |     | .01 |     | .09 | .82 |     | .05 |     | 2.51 |       |      |
| Greensburg.....    | Youghiogheny..... | .05          |     |    |   |      | .82  | .14 | .13  |     |     | .11 | .05 |     |     | .01 | T.  | .02 |     | .09 | .06 | .04 |     | .04 | .01 |     | .12 | .02 | T.  | T.  | .17 | T.   | 1.88  |      |
| Greenville.....    | Beaver.....       | .20          | .04 |    |   |      | .31  | .08 | .03  |     |     | .08 | .05 |     | T.  | T.  |     |     |     |     | .04 | .08 |     | .02 |     | .31 |     | .12 |     | .04 | T.  | 1.28 |       |      |
| Grove City.....    | do.....           | .30          | .02 |    |   |      | .63  | .12 | .03  |     |     | .13 | .04 |     | T.  |     |     |     |     | T.  | .05 | .04 |     | .03 | .01 |     | .26 |     |     | .11 | .01 | 1.78 |       |      |
| Herrs Isl. Dam\|\|\| | Ohio.....         | .39          | .01 |    |   |      | .98  | .23 | .06  | T.  |     | .07 | .03 | T.  | T.  |     | T.  |     |     | .02 |     | .03 | T.  | T.  |     | T.  |     | T.  | .16 |     | T.  | .05  | T.    | 2.03 |
| Ingram.....        | do.....           | .29          |     |    |   | T.   | 1.14 | .11 | T.   |     |     | .17 | T.  |     | T.  |     | T.  |     | T.  |     | .05 | .02 | .01 |     | T.  | T.  |     | .13 | .05 |     | .10 | T.   | 2.07  |      |
| Irwin.....         | Youghiogheny..... | .12          |     |    |   |      | .80  | .12 | .03  |     |     | .19 | .04 |     |     |     |     | T.  | T.  |     | T.  | .03 | .04 |     | T.  | T.  |     | .18 | .03 | T.  |     | .02  | T.    | 1.60 |
| Johnstown.....     | Conemaugh.....    | .14          |     |    |   | T.   | 1.01 | .11 | .11  |     |     | .15 | .04 |     | T.  | .04 |     | .02 |     | .40 | .02 | .10 |     | .04 | .06 |     | .30 | .07 |     | .05 | .05 |      | 2.71  |      |
| Kegonsa\|\|\| | Youghiogheny..... | .09          |     |    |   | .29  | .41  | .19 | T.   |     | .03 | .21 | .07 |     | T.  | .02 |     | .06 |     | .36 |     | .08 |     | .11 | .03 |     | .60 |     | .02 | .10 | .06 |      | 2.73  |      |
| Lock No. 4\|\|\| | Monongahela.....  | .37          | .01 |    |   |      | .85  | .21 | .04  | .01 |     | .08 | .06 | T.  |     |     | .01 |     |     |     | .11 | T.  | .02 |     | .02 |     | .01 | .29 |     |     | .06 | .01  | 1.86  |      |
| Lycippus.....      | Conemaugh.....    |              |     |    |   |      | .90  | .10 | .11  |     |     | .25 | T.  |     | T.  |     |     |     |     | .04 |     | .27 | T.  |     | T.  |     | .21 | .23 |     | .08 |     | 2.19 |       |      |
| Meadville.....     | Allegheny.....    | .31          | .05 |    |   |      | .18  | .11 | .02  |     |     | .07 | .07 |     | T.  |     | T.  |     |     |     | .04 | .10 |     | T.  | .03 |     | .35 |     |     | .18 | T.  | 1.51 |       |      |
| Mount Lebanon..... | Ohio.....         | .32          |     |    |   |      | .99  | .15 | .01  |     |     | .14 | T.  |     | T.  |     |     |     |     | .02 |     | .02 | T.  |     | T.  |     | .13 |     |     | .13 |     | 1.91 |       |      |
| New Castle\|\|\| | Beaver.....       | .28          | .03 |    |   |      | .50  | .13 | .02  | T.  |     | .22 | .03 | .04 | .02 | .02 | .02 |     |     | .02 | .02 | .03 | .02 |     | .02 |     | .17 | .02 |     | .01 | .20 | .02  | 2.82  |      |
| Newell.....        | Monongahela.....  | .17          |     |    |   |      | .85  | .07 |      |     |     | .12 |     |     |     |     | .01 | .01 |     |     | .02 |     |     |     | .01 | .92 |     | .22 | .13 |     | .10 | .01  | 1.74  |      |
| Parkers Landing\|\|\| | Allegheny.....    | .94          | .20 |    |   |      | .93  | .31 | T.   | T.  |     | T.  | .16 | T.  |     | T.  |     | T.  |     |     | .05 | T.  | .10 |     | T.  | T.  |     | .05 | .20 |     | T.  | .20  | T.    | 3.14 |
| Pennline\|\|\| | Beaver.....       | .83          | .11 |    |   |      | .23  | .21 | .04  |     |     | .05 | .10 | .06 | T.  |     | .03 |     |     |     | .05 | .06 |     |     |     |     | .33 | .03 |     | .14 | .01 | 2.28 |       |      |
| Pittsburgh***      | Ohio.....         | .03          |     |    |   | .18  | .97  | .05 | T.   |     |     | .10 | T.  | T.  | T.  |     | T.  |     | .01 |     | .04 | T.  | .01 | T.  |     | T.  |     | .16 | .01 | T.  | .10 | .03  | T.    | 1.72 |
| Ridgway.....       | Allegheny.....    | T.           | .04 |    |   |      | .22  | .30 | T.   |     |     | .11 | .08 |     |     |     | T.  | T.  |     |     | .15 | .15 | .40 | .10 | .12 | .12 |     | .06 |     | T.  | .02 | .02  | 1.89  |      |
| Saltsburg\|\|\| | Conemaugh.....    | .30          | .04 |    |   |      | .45  | .17 | .04  |     |     |     | .08 |     |     |     |     |     |     | T.  |     | .15 | .02 | .03 |     | .01 |     | .13 |     | T.  | .07 | .07  | 1.56  |      |
| Sharon\|\|\| | Beaver.....       | .67          | .05 |    |   |      | .21  |     | .12  |     |     | .09 | T.  |     |     |     | T.  |     |     |     |     |     | .02 |     | .02 |     | .20 | .05 |     | .04 | .08 | .04  | 1.45  |      |
| Somerset.....      | Youghiogheny..... | .05          |     |    |   | 1.02 | .07  | .14 |      |     |     | .12 | .06 | T.  |     |     | T.  |     | .03 | .03 | .27 | .11 | .03 |     | T.  | .08 |     | .43 | .19 | .04 | .13 |      | 2.80  |      |
| Springdale\|\|\| | Allegheny.....    | .44          | .02 |    |   |      | .90  | .26 | .05  | .02 |     | .07 | .08 |     |     |     |     |     |     | .02 |     | .10 | .01 | T.  | T.  | T.  | T.  | .10 |     |     | .09 | .02  | 2.18  |      |
| Uniontown.....     | Monongahela.....  | .33          |     |    |   |      | .41  | .09 | .07  |     |     | .11 | .02 |     |     | .02 |     |     | .02 |     | .15 | .01 | T.  |     | .01 | T.  |     | .46 | .37 | .02 |     | .09  | 2.18  |      |
| Unity Reservoir\|\|\| | Youghiogheny..... | .23          |     |    |   |      | .72  | .14 | .17  |     |     | .17 | .05 |     |     |     |     |     |     |     | .10 | .15 | .04 | .03 | T.  |     | .18 | .38 | .10 | .14 |     | 2.60 |       |      |
| Vandergrift\|\|\| | Conemaugh.....    | .02          |     |    |   |      | *    | *   | 1.33 |     |     | .10 |     |     |     |     |     |     | T.  |     | .10 | .05 | .01 |     |     |     |     |     | .04 | .08 | .04 |      | 1.77  |      |
| Warren.....        | Allegheny.....    | 1.97         |     |    |   |      | .70  | .10 | .10  |     |     | .08 | .11 |     |     | .14 |     |     |     |     | .15 |     |     |     | .06 |     | .20 | .07 | .03 | .33 | .02 | 4.06 |       |      |
| Westford\|\|\| | Beaver.....       |              |     |    |   | .18  | .19  |     |      |     |     | T.  |     | T.  |     |     |     |     |     |     | .03 |     | .07 |     | .10 |     | .14 |     |     | .30 |     | 1.01 |       |      |
| West Newton\|\|\| | Youghiogheny..... | .25          | .12 |    |   |      | .93  | .28 | .03  |     |     | .07 | .05 |     |     |     |     |     |     | .06 |     | .12 |     | .02 |     | .02 |     |     | .21 |     | .12 |      | 2.18  |      |
| Zelienople.....    | Ohio.....         |              |     |    |   | .07  |      |     |      |     |     |     |     |     |     |     | .13 | .04 |     |     |     |     |     |     |     |     | .29 | .09 |     | .02 | .18 | 0.82 |       |      |
| Lake Drainage.     |                   |              |     |    |   |      |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Erie***            | Lake Erie.....    | .12          | .02 |    |   | .02  | .33  | .14 | T.   | T.  |     | .01 | .04 | T.  | T.  | T.  | T.  |     |     |     | T.  | T.  | .02 |     | .36 | .04 | .05 | .08 | T.  | T.  | .06 | .22  | .10   | 1.61 |
| Genesee.....       | do.....           | .36          |     |    |   |      | .18  | .19 | T.   |     |     |     | .25 |     | T.  | .05 |     |     |     |     |     | .05 | .10 |     | .05 | .10 |     | .05 |     |     |     |      | 1.38  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah.  
‡ Mdt. to mdt.



## Daily Temperatures for December, 1930

| Stations          | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |      |
|-------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|
| Allentown.....    | Maximum | 45 | 24 | 39 | 40 | 38 | 36 | 41 | 44 | 48 | 46 | 42 | 44 | 37 | 31 | 26 | 23 | 29 | 39 | 42 | 41 | 37 | 32 | 34 | 37 | 35 | 35 | 33 | 31 | 35 | 38   | 36.9 |      |      |
|                   | Minimum | 28 | 14 | 15 | 19 | 27 | 32 | 33 | 35 | 36 | 36 | 32 | 34 | 32 | 25 | 23 | 10 | 9  | 12 | 28 | 28 | 24 | 18 | 19 | 23 | 15 | 18 | 30 | 31 | 22 | 20   | 24.2 |      |      |
| Altoona.....      | Maximum | 47 | 23 | 36 | 40 | 36 | 36 | 37 | 37 | 41 | 46 | 41 | 42 | 34 | 32 | 31 | 23 | 24 | 31 | 34 | 32 | 30 | 28 | 27 | 32 | 32 | 33 | 30 | 31 | 30 | 35   | 33.5 |      |      |
|                   | Minimum | 21 | 5  | 9  | 30 | 31 | 32 | 32 | 33 | 30 | 35 | 35 | 35 | 29 | 29 | 23 | 7  | 3  | 13 | 17 | 25 | 16 | 21 | 11 | 19 | 4  | 26 | 30 | 25 | 21 | 9    | 22.0 |      |      |
| Beaver Dam.....   | Maximum | 21 | 23 | 47 | 45 | 45 | 43 | 43 | 40 | 49 | 49 | 47 | 47 | 37 | 35 | 35 | 22 | 29 | 33 | 36 | 36 | 33 | 29 | 29 | 30 | 38 | 37 | 36 | 33 | 34 | 34   | 33   | 36.4 |      |
|                   | Minimum | 20 | 5  | 15 | 30 | 35 | 41 | 38 | 33 | 33 | 28 | 36 | 35 | 33 | 31 | 19 | 12 | 6  | 21 | 29 | 31 | 17 | 26 | 25 | 20 | 12 | 32 | 28 | 28 | 23 | 15   | 25.5 |      |      |
| Bellefonte.....   | Maximum | 40 | 21 | 40 | 38 | 38 | 36 | 38 | 37 | 43 | 42 | 42 | 39 | 34 | 31 | 28 | 24 | 22 | 30 | 38 | 33 | 31 | 30 | 32 | 31 | 32 | 34 | 35 | 28 | 30 | 31   | 33.5 |      |      |
|                   | Minimum | 13 | 8  | 12 | 28 | 34 | 33 | 32 | 33 | 32 | 31 | 31 | 31 | 29 | 28 | 7  | 6  | 4  | 19 | 22 | 20 | 8  | 13 | 13 | 12 | -2 | 25 | 27 | 20 | 24 | 20   | 8    | 20.0 |      |
| Brookville.....   | Maximum | 35 | 22 | 43 | 42 | 42 | 43 | 39 | 37 | 45 | 40 | 44 | 44 | 35 | 35 | 26 | 21 | 30 | 29 | 37 | 31 | 31 | 34 | 27 | 31 | 37 | 37 | 35 | 28 | 29 | 26   | 30   | 34.4 |      |
|                   | Minimum | 4  | 3  | 3  | 30 | 31 | 34 | 31 | 25 | 22 | 31 | 30 | 29 | 25 | 4  | -2 | -5 | 20 | 28 | 13 | 18 | -2 | 4  | -3 | -7 | 31 | 27 | 26 | 25 | 19 | 10   | 17.4 |      |      |
| Butler.....       | Maximum | 34 | 24 | 47 | 49 | 45 | 44 | 40 | 38 | 45 | 50 | 47 | 44 | 36 | 42 | 39 | 24 | 31 | 36 | 31 | 30 | 29 | 30 | 30 | 28 | 37 | 36 | 35 | 34 | 32 | 31   | 33   | 36.5 |      |
|                   | Minimum | 20 | 4  | 9  | 30 | 32 | 36 | 35 | 33 | 32 | 26 | 36 | 32 | 31 | 30 | 21 | 7  | 1  | 20 | 29 | 25 | 23 | 22 | 21 | 25 | 8  | 25 | 32 | 21 | 25 | 22   | 13   | 23.4 |      |
| Carlisle.....     | Maximum | 46 | 41 | 44 | 51 | 42 | 41 | 43 | 43 | 52 | 48 | 45 | 43 | 41 | 33 | 33 | 28 | 25 | 41 | 36 | 34 | 33 | 32 | 37 | 32 | 31 | 32 | 41 | 37 | 33 | 33   | 34   | 38.2 |      |
|                   | Minimum | 36 | 13 | 23 | 17 | 26 | 32 | 33 | 40 | 35 | 31 | 29 | 30 | 32 | 28 | 28 | 10 | 2  | 23 | 19 | 15 | 3  | 3  | 19 | 20 | 5  | 20 | 32 | 30 | 24 | 27   | 19   | 22.7 |      |
| Catawissa.....    | Maximum | 54 | 34 | 43 | 42 | 43 | 42 | 39 | 42 | 46 | 46 | 44 | 45 | 43 | 33 | 32 | 28 | 26 | 42 | 47 | 42 | 44 | 31 | 32 | 35 | 36 | 35 | 36 | 33 | 32 | 33   | 34   | 38.5 |      |
|                   | Minimum | 19 | 12 | 17 | 24 | 30 | 33 | 34 | 34 | 36 | 32 | 31 | 34 | 29 | 28 | 18 | 8  | 3  | 23 | 32 | 23 | 21 | 8  | 16 | 21 | 3  | 27 | 31 | 25 | 26 | 23   | 20   | 23.3 |      |
| Chambersburg..... | Maximum | 52 | 31 | 43 | 51 | 39 | 41 | 45 | 44 | 52 | 51 | 45 | 45 | 40 | 35 | 35 | 32 | 28 | 34 | 38 | 36 | 39 | 34 | 39 | 34 | 36 | 32 | 40 | 33 | 35 | 35   | 33   | 38.9 |      |
|                   | Minimum | 23 | 12 | 12 | 20 | 30 | 32 | 33 | 37 | 36 | 37 | 32 | 30 | 32 | 29 | 24 | 11 | 8  | 19 | 19 | 24 | 10 | 5  | 18 | 18 | 8  | 25 | 25 | 28 | 26 | 19   | 22   | 22.8 |      |
| Claysville.....   | Maximum | 52 | 27 | 52 | 49 | 46 | 44 | 44 | 39 | 49 | 50 | 49 | 47 | 35 | 35 | 33 | 23 | 38 | 31 | 38 | 34 | 32 | 29 | 29 | 28 | 38 | 38 | 37 | 29 | 32 | 32   | 33   | 37.8 |      |
|                   | Minimum | 16 | 4  | 18 | 26 | 32 | 38 | 37 | 30 | 31 | 26 | 41 | 31 | 29 | 29 | 19 | 8  | 5  | 25 | 26 | 28 | 24 | 23 | 18 | 14 | 13 | 32 | 28 | 25 | 22 | 13   | 23.5 |      |      |
| Clearfield.....   | Maximum | 38 | 28 | 50 | 47 | 40 | 38 | 40 | 40 | 40 | 44 | 44 | 38 | 35 | 36 | 33 | 30 | 25 | 38 | 39 | 38 | 32 | 33 | 35 | 38 | 32 | 38 | 34 | 38 | 34 | 30   | 34   | 36.7 |      |
|                   | Minimum | 25 | 10 | 5  | 25 | 25 | 31 | 32 | 32 | 31 | 31 | 30 | 30 | 28 | 29 | 12 | 5  | -2 | 20 | 24 | 20 | 26 | 21 | 20 | 10 | 12 | -2 | 30 | 30 | 26 | 20   | 24   | 12   | 21.0 |
| Coatesville.....  | Maximum | 52 | 34 | 39 | 44 | 44 | 37 | 40 | 44 | 48 | 47 | 46 | 44 | 41 | 32 | 31 | 22 | 28 | 40 | 40 | 42 | 42 | 45 | 42 | 34 | 37 | 34 | 37 | 35 | 33 | 35   | 36   | 38.4 |      |
|                   | Minimum | 34 | 16 | 15 | 20 | 32 | 33 | 34 | 37 | 35 | 33 | 31 | 31 | 28 | 28 | 20 | 9  | 9  | 26 | 27 | 29 | 22 | 20 | 28 | 25 | 16 | 28 | 33 | 30 | 24 | 26   | 20   | 25.8 |      |
| Corry.....        | Maximum | 30 | 21 | 42 | 37 | 41 | 40 | 38 | 35 | 46 | 43 | 43 | 43 | 35 | 32 | 25 | 24 | 28 | 30 | 33 | 33 | 28 | 32 | 29 | 32 | 38 | 36 | 33 | 28 | 17 | 10   | 21.5 |      |      |
|                   | Minimum | 12 | 8  | 11 | 28 | 33 | 36 | 33 | 31 | 30 | 31 | 34 | 31 | 26 | 20 | 8  | 7  | 5  | 21 | 22 | 24 | 19 | 23 | 19 | 14 | 15 | 29 | 22 | 36 | 18 | 10   | 34.9 |      |      |
| Emporium.....     | Maximum | 44 | 19 | 42 | 39 | 40 | 40 | 40 | 38 | 46 | 44 | 44 | 44 | 35 | 33 | 30 | 23 | 23 | 31 | 39 | 35 | 31 | 30 | 30 | 31 | 35 | 36 | 35 | 32 | 30 | 31   | 31   | 21.4 |      |
|                   | Minimum | 18 | 5  | 1  | 32 | 35 | 35 | 36 | 35 | 33 | 32 | 30 | 30 | 32 | 29 | 10 | 0  | -5 | 20 | 30 | 28 | 18 | 12 | 5  | 12 | 1  | 23 | 32 | 28 | 28 | 22   | 16   | 26.9 |      |
| Erie.....         | Maximum | 36 | 22 | 40 | 39 | 44 | 41 | 41 | 36 | 45 | 45 | 47 | 44 | 34 | 31 | 26 | 23 | 34 | 32 | 35 | 34 | 31 | 33 | 30 | 30 | 37 | 36 | 35 | 32 | 30 | 31   | 29   | 34.9 |      |
|                   | Minimum | 15 | 14 | 22 | 32 | 39 | 39 | 35 | 34 | 33 | 37 | 44 | 34 | 28 | 26 | 13 | 14 | 9  | 25 | 32 | 26 | 25 | 28 | 24 | 22 | 21 | 32 | 23 | 28 | 23 | 16   | 26.7 |      |      |
| Franklin.....     | Maximum | 42 | 33 | 45 | 42 | 44 | 41 | 39 | 38 | 50 | 44 | 46 | 35 | 33 | 35 | 28 | 23 | 30 | 31 | 34 | 32 | 30 | 32 | 29 | 32 | 49 | 37 | 35 | 28 | 30 | 26   | 32   | 35.6 |      |
|                   | Minimum | 30 | 5  | 7  | 24 | 31 | 31 | 35 | 32 | 31 | 29 | 31 | 33 | 29 | 28 | 20 | 8  | 0  | 1  | 23 | 29 | 17 | 21 | 21 | 20 | 4  | 8  | 31 | 25 | 25 | 12   | 21.4 |      |      |
| Freeland.....     | Maximum | 45 | 24 | 37 | 38 | 33 | 33 | 34 | 34 | 38 | 42 | 36 | 38 | 34 | 26 | 23 | 17 | 24 | 43 | 38 | 36 | 34 | 27 | 28 | 32 | 37 | 34 | 34 | 27 | 26 | 28   | 32   | 32.8 |      |
|                   | Minimum | 22 | 4  | 10 | 26 | 27 | 26 | 29 | 30 | 28 | 32 | 31 | 31 | 22 | 20 | 10 | 1  | 7  | 20 | 27 | 24 | 21 | 12 | 21 | 18 | 13 | 24 | 24 | 22 | 20 | 13   | 20.5 |      |      |
| Genesee.....      | Maximum | 45 | 30 | 40 | 34 | 40 | 45 | 40 | 43 | 41 | 40 | 40 | 33 | 33 | 30 | 10 | -5 | -7 | 15 | 23 | 25 | 11 | 15 | 0  | 20 | 6  | 30 | 30 | 25 | 20 | 13   | 20.3 |      |      |
|                   | Minimum | 30 | -2 | 11 | 30 | 30 | 32 | 35 | 30 | 30 | 33 | 27 | 32 | 25 | 30 | 10 | -5 | -7 | 15 | 23 | 25 | 11 | 15 | 0  | 20 | 6  | 30 | 30 | 25 | 20 | 13   | 20.3 |      |      |
| Gettysburg.....   | Maximum | 50 | 39 | 40 | 47 | 42 | 41 | 44 | 45 | 49 | 51 | 45 | 46 | 41 | 36 | 36 | 28 | 26 | 42 | 36 | 39 | 38 | 34 | 36 | 34 | 38 | 34 | 39 | 37 | 36 | 34   | 35   | 39.3 |      |
|                   | Minimum | 37 | 14 | 15 | 21 | 33 | 33 | 34 | 37 | 34 | 35 | 38 | 38 | 30 | 26 | 11 | 7  | 22 | 26 | 21 | 16 | 10 | 25 | 25 | 11 | 29 | 32 | 30 | 27 | 28 | 20   | 25.2 |      |      |
| Greensburg.....   | Maximum | 53 | 23 | 52 | 49 | 45 | 43 | 42 | 38 | 46 | 50 | 48 | 45 | 35 | 34 | 33 | 20 | 30 | 38 | 33 | 32 | 30 | 27 | 27 | 38 | 38 | 36 | 30 | 32 | 32 | 32   | 36.8 |      |      |
|                   | Minimum | 18 | 8  | 16 | 28 | 36 | 38 | 37 | 32 | 32 | 31 | 42 | 33 | 32 | 30 | 17 | 9  | 3  | 23 | 23 | 27 | 22 | 23 | 14 | 18 | 11 | 33 | 29 | 26 | 27 | 22   | 15   | 24.4 |      |
| Grove City.....   | Maximum | 49 | 27 | 44 | 42 | 43 | 42 | 40 | 38 | 47 | 45 | 45 | 45 | 34 | 35 | 32 | 28 | 30 | 34 | 34 | 30 | 30 | 29 | 30 | 38 | 36 | 35 | 30 | 30 | 29 | 31   | 35.9 |      |      |
|                   | Minimum | 14 | 1  | 12 | 31 | 32 | 35 | 35 | 32 | 30 | 27 | 38 | 31 | 28 | 26 | 13 | 8  | 5  | 22 | 27 | 27 | 17 | 21 | 20 | 15 | 11 | 30 | 27 | 24 | 25 | 20   | 13   | 22.5 |      |
| Hamburg.....      | Maximum | 47 | 43 | 51 | 48 | 42 | 43 | 45 | 48 | 42 | 43 | 40 | 38 | 34 | 26 | 32 | 18 | 15 | 30 | 46 | 40 | 38 | 39 | 36 | 34 | 33 | 37 | 40 | 40 | 34 | 33   | 37   | 38.6 |      |
|                   | Minimum | 12 | 38 | 35 | 28 | 30 | 30 | 28 | 23 | 15 | 9  | 15 | 21 | 22 | 22 | 10 | 1  | 15 | 21 | 22 | 20 | 20 | 20 | 16 | 11 | 32 | 30 | 21 | 18 | 24 | 20   | 22.4 |      |      |
| Harrisburg.....   | Maximum | 49 | 26 | 40 | 47 | 42 | 37 | 43 | 44 | 51 | 48 | 43 | 45 | 41 | 36 | 32 | 26 | 27 | 16 | 12 | 13 | 25 | 31 | 28 | 22 | 16 | 23 | 24 | 17 | 31 | 27   | 26   | 26.4 |      |
|                   | Minimum | 20 | 16 | 20 | 28 | 34 | 33 | 35 | 39 | 36 | 38 | 37 | 32 | 38 | 30 | 27 | 26 | 19 | 29 | 46 | 43 | 39 | 37 | 34 | 31 | 29 | 36 | 35 | 34 | 30 | 31   | 34   | 35.5 |      |
| Hawley.....       | Maximum | 49 | 38 | 40 | 39 | 33 | 34 | 37 | 38 | 43 | 43 | 39 | 40 | 38 | 37 | 25 | 18 | 16 | 6  | 20 | 14 | 19 | 27 | 12 | 5  | 20 | 21 | -6 | 25 | 29 | 28   | 18   | 25.9 |      |
|                   | Minimum | 34 | 10 | 7  | 20 | 25 | 30 | 31 | 30 | 30 | 36 | 27 | 33 | 25 | 18 | 16 | 6  | 20 | 14 | 19 | 27 | 12 | 5  | 20 | 21 | -6 | 25 | 29 | 28 | 18 | 25.9 |      |      |      |
| Huntingdon.....   | Maximum | 47 | 29 | 39 | 44 | 39 | 40 | 40 | 40 | 49 | 48 | 44 | 44 | 38 | 35 | 35 | 28 | 3  | 35 | 35 | 36 | 34 | 32 | 30 | 33 | 38 | 33 | 37 | 35 | 33 | 34   | 36.8 |      |      |
|                   | Minimum | 27 | 10 | 6  | 24 | 27 | 32 | 32 | 36 | 34 | 31 | 30 | 34 | 31 | 29 | 20 | 8  | 1  | 14 | 19 | 25 | 12 | 15 | 8  | 23 | 0  | 26 | 32 | 29 | 21 | 25   | 18   | 21.9 |      |
| Johnstown.....    | Maximum | 48 | 23 | 42 | 48 | 42 | 40 | 40 | 37 | 44 | 50 | 49 | 47 | 35 | 34 | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXV. ANNUAL SUMMARY, 1930. No. 13.

GENERAL SUMMARY.

The outstanding feature for the year was the unprecedented drought that developed chiefly during the last six months. At the end of June there was an accumulated deficiency in rainfall of five inches or more in about one-fourth of the State. The dry regions comprised Berks, Lebanon, Lehigh, and Carbon counties in the eastern, and Adams, Franklin, Fulton, Bedford, Somerset, Cambria, Blair, and Huntingdon counties in the south-central portions of the State respectively. Elsewhere the deficiencies were comparatively small, while there was a small excess in some of the northern counties. During the next four months, ending with October, the deficiency increased in those dry regions to fifteen inches or more, and to ten inches or more in fully three-fourths of the State. The average deficiency for the State, during those four months was 8.10 inches, or fifty-three per cent of the normal. Small streams and ponds, shallow wells and thousands of springs dried up completely, and in many regions water was hauled for domestic uses, sometimes for long distances. All late maturing crops suffered severely. The winter grains and the first cutting of hay matured in June, and were not materially affected. In some sections the wheat crop was unusually good both in quality and yield. Early varieties of potatoes that were being dug near the end of July and early in August were mostly good excepting in the dry regions above mentioned. The corn crop, the second cutting of hay, late potatoes, and all late truck crops have a different story to tell, as they were almost a complete failure in the greater portion of the State. Thousands of acres of corn were almost devoid of ears, or developed mere nubbins, and were valuable only for ensilage. The corn crop as a whole was the poorest ever known. A large portion of the second hay crop was not worth cutting, and the only redeeming feature of the situation was the fact that the dry weather enabled the light crop to be cured and gathered with extremely small losses. Intense heat began shortly after the middle of July and prevailed most of the time until the end of September. This increased the devastating effects of the drought. Pastures began to turn brown in many sections early in September, and it became necessary to feed ensilage to the stock. The drought did not end with the crop growing season, but continued during the remainder of the year. The seeding of winter grains was delayed much later than usual in the hope that rains would put the top soil in better condition. The germination of the seed was slow, and the grain came up in patches. It did not have time to become well rooted and well established before low temperatures stopped the growth. At the end of the year the condition of the winter grains was the poorest for many years. Owing to late killing frosts in spring, the fruit crop was one of the lightest for the last ten years.

COMPARATIVE ANNUAL DATA FOR THE STATE

| Year | Temperature |         |        | Average precipitation | Average snowfall | Year | Temperature |         |        | Average precipitation | Average snowfall |
|------|-------------|---------|--------|-----------------------|------------------|------|-------------|---------|--------|-----------------------|------------------|
|      | Mean        | Highest | Lowest |                       |                  |      | Mean        | Highest | Lowest |                       |                  |
| 1888 | 47.9        | 100     | -31    | 45.91                 |                  | 1910 | 49.8        | 99      | -22    | 38.99                 | 66.5             |
| 1889 | 49.8        | 96      | -27    | 52.67                 |                  | 1911 | 51.1        | 105     | -18    | 45.52                 | 39.2             |
| 1890 | 50.5        | 101     | -18    | 51.28                 |                  | 1912 | 49.0        | 100     | -35    | 44.13                 | 38.6             |
| 1891 | 50.6        | 100     | -14    | 45.65                 |                  | 1913 | 51.7        | 102     | -9     | 43.25                 | 24.2             |
| 1892 | 49.3        | 103     | -28    | 41.30                 |                  | 1914 | 49.3        | 101     | -28    | 38.24                 | 66.4             |
| 1893 | 48.7        | 102     | -25    | 44.26                 |                  | 1915 | 50.1        | 99      | -26    | 44.26                 | 43.4             |
| 1894 | 51.3        | 103     | -28    | 43.69                 |                  | 1916 | 49.6        | 103     | -31    | 40.98                 | 52.8             |
| 1895 | 49.4        | 104     | -26    | 33.51                 |                  | 1917 | 47.5        | 105     | -29    | 41.71                 | 45.6             |
| 1896 | 50.5        | 101     | -21    | 41.95                 |                  | 1918 | 49.2        | 108     | -34    | 41.25                 | 41.4             |
| 1897 | 50.0        | 103     | -25    | 42.73                 |                  | 1919 | 51.1        | 104     | -23    | 46.66                 | 24.1             |
| 1898 | 51.3        | 107     | -16    | 45.49                 |                  | 1920 | 49.4        | 99      | -21    | 40.63                 | 41.7             |
| 1899 | 50.0        | 101     | -39    | 40.93                 |                  | 1921 | 53.1        | 104     | -15    | 41.80                 | 30.9             |
| 1900 | 51.5        | 104     | -23    | 37.31                 |                  | 1922 | 51.4        | 100     | -19    | 34.88                 | 38.5             |
| 1901 | 49.4        | 107     | -22    | 45.54                 |                  | 1923 | 50.4        | 103     | -20    | 39.17                 | 40.9             |
| 1902 | 49.6        | 100     | -24    | 47.29                 |                  | 1924 | 48.7        | 102     | -25    | 43.26                 | 44.7             |
| 1903 | 49.6        | 99      | -17    | 46.27                 |                  | 1925 | 50.5        | 104     | -29    | 37.72                 | 44.2             |
| 1904 | 47.5        | 99      | -42    | 40.44                 | 50.8             | 1926 | 48.7        | 105     | -20    | 43.11                 | 49.8             |
| 1905 | 49.4        | 99      | -25    | 43.34                 | 40.9             | 1927 | 50.9        | 100     | -24    | 47.30                 | 30.3             |
| 1906 | 50.8        | 99      | -21    | 42.78                 | 45.0             | 1928 | 50.5        | 99      | -23    | 42.06                 | 37.8             |
| 1907 | 48.5        | 98      | -23    | 45.45                 | 54.5             | 1929 | 50.5        | 101     | -20    | 44.21                 | 36.7             |
| 1908 | 50.9        | 104     | -29    | 39.58                 | 54.4             | 1930 | 51.2        | 108     | -24    | 23.82                 | 27.6             |
| 1909 | 50.2        | 100     | -19    | 37.38                 |                  |      |             |         |        |                       |                  |

MONTHLY STATE DATA FOR 1930

| Month     | Temperature |                   |                  |         |        | Precipitation |          |       |                     |              |
|-----------|-------------|-------------------|------------------|---------|--------|---------------|----------|-------|---------------------|--------------|
|           | Mean        | Highest sta. mean | Lowest sta. mean | Highest | Lowest | Average       | Greatest | Least | Greatest in 24 hrs. | Average snow |
| January   | 29.2        | 35.6              | 23.9             | 72      | -24    | 2.25          | 4.74     | 0.70  | 1.50                | 8.4          |
| February  | 35.1        | 41.0              | 26.6             | 80      | -18    | 2.69          | 4.88     | 0.93  | 2.73                | 3.9          |
| March     | 37.9        | 44.0              | 29.1             | 78      | -9     | 3.03          | 5.05     | 1.04  | 2.90                | 4.9          |
| April     | 48.2        | 54.6              | 41.4             | 92      | 9      | 2.71          | 4.43     | 0.66  | 2.52                | 1.1          |
| May       | 61.2        | 67.0              | 54.6             | 99      | 25     | 3.03          | 6.39     | 1.03  | 2.70                | 0            |
| June      | 69.1        | 75.4              | 60.5             | 100     | 22     | 4.20          | 13.02    | 1.56  | 5.75                | 0            |
| July      | 73.0        | 79.8              | 65.4             | 106     | 33     | 2.23          | 6.46     | 0.17  | 3.29                | 0            |
| August    | 70.3        | 76.6              | 63.3             | 108     | 29     | 1.47          | 4.12     | 0.29  | 1.96                | 0            |
| September | 67.8        | 76.2              | 60.2             | 101     | 27     | 2.45          | 7.01     | 0.64  | 2.95                | 0            |
| October   | 50.8        | 57.4              | 43.8             | 93      | 9      | 0.99          | 3.33     | 0.11  | 1.31                | 0.2          |
| November  | 42.0        | 47.6              | 34.8             | 75      | -15    | 1.48          | 4.29     | 0.22  | 1.50                | 2.3          |
| December  | 30.0        | 37.6              | 23.4             | 59      | -15    | 2.29          | 4.06     | 0.82  | 2.49                | 6.8          |
| Year      | 51.2        | 79.8              | 23.4             | 108     | -24    | 28.82         | 13.02    | 0.11  | 5.75                | 27.6         |

KILLING FROSTS OR FREEZING TEMPERATURE

| Stations      | Last in spring | First in autumn | Stations        | Last in spring | First in autumn |
|---------------|----------------|-----------------|-----------------|----------------|-----------------|
| Allentown     | Apr. 25        | Oct. 20         | Hyndman         | June 1         | Sept. 29        |
| Altoona       | May 31         | do. 2           | Johnstown       | do. 1          | Oct. 6          |
| Beaver Dam    | Apr. 27        | do. 20          | Lancaster       | Apr. 27        | do. 2           |
| Bellefonte    | May 30         | do. 2           | Lawrenceville   | May 27         | do. 3           |
| Bradford      | June 1         | Aug. 12         | Lebanon         | Apr. 26        | do. 19          |
| Brookville    | do. 1          | do. 12          | Lock Haven      | May 27         | do. 5           |
| Butler        | May 30         | Sept. 30        | Lykens          | June 1         | do. 1           |
| Carlisle      | Apr. 24        | Oct. 2          | Mauch Chunk     | Apr. 27        | do. 19          |
| Catawissa     | do. 26         | do. 2           | Meadville       | May 31         | do. 2           |
| Chambersburg  | June 1         | do. 2           | Mifflintown     | Apr. 27        | do. 2           |
| Chambersville | do. 1          | Sept. 29        | Montrose        | do. 28         | do. 18          |
| Claysville    | May 30         | Oct. 1          | Muncy Valley    | May 31         | Sept. 29        |
| Clearfield    | June 1         | Sept. 29        | Narberth        | Apr. 24        | Oct. 19         |
| Coatesville   | Apr. 27        | Oct. 19         | Neshaminy Falls | do. 27         | do. 19          |
| Corry         | May 31         | Sept. 19        | Newell          | May 26         | do. 20          |
| Cloudersport  | June 1         | Aug. 12         | Philadelphia    | Apr. 24        | do. 21          |
| Ebensburg     | May 27         | Sept. 30        | Phoenixville    | do. 26         | do. 21          |
| Elk Lick      | June 1         | do. 29          | Pittsburgh      | do. 24         | do. 20          |
| Emporium      | do. 1          | Aug. 13         | Quakertown      | do. 27         | do. 1           |
| Ephrata       | Apr. 26        | Oct. 19         | Reading         | do. 24         | do. 21          |
| Erie          | do. 23         | do. 19          | Ridgway         | May 31         | Aug. 12         |
| Franklin      | June 1         | Aug. 13         | Scranton        | Apr. 27        | Oct. 20         |
| Freeland      | Apr. 5         | Oct. 19         | Selinsgrove     | do. 27         | do. 2           |
| George School | do. 24         | do. 19          | Sharon          | May 31         | Sept. 30        |
| Gettysburg    | do. 24         | do. 19          | Shawmont        | Apr. 24        | Oct. 19         |
| Gordon        | June 1         | Sept. 29        | Somerset        | June 1         | Aug. 12         |
| Gouldsboro    | do. 1          | Aug. 13         | State College   | May 27         | Oct. 2          |
| Greensburg    | May 30         | Oct. 2          | Stroudsburg     | Apr. 29        | Sept. 30        |
| Greenville    | do. 31         | do. 1           | Towanda         | do. 27         | Oct. 5          |
| Grove City    | do. 31         | Sept. 30        | Uniontown       | May 30         | do. 2           |
| Hamburg       | Apr. 27        | Oct. 18         | Vandergrift     | do. 30         | do. 2           |
| Hanover       | May 26         | do. 20          | Warren          | do. 30         | do. 20          |
| Harrisburg    | Apr. 24        | do. 21          | Wellsboro       | June 1         | Sept. 30        |
| Hawley        | May 29         | Sept. 30        | West Chester    | Apr. 24        | Oct. 19         |
| Holtwood      | Apr. 24        | Oct. 21         | Williamsport    | do. 27         | do. 19          |
| Huntingdon    | June 1         | do. 2           | York            | do. 24         | do. 2           |



## Climatological Data for the Year 1930

| STATION            | Counties     | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |          |        |         | Precipitation (inches)  |                    |                  |       |               |       | Total snowfall (unmelted) | Number days with .01 or more | Sky               |                           |                    | Prevailing direction of wind |
|--------------------|--------------|-----------------|----------------------------------|-------------|---------|----------|--------|---------|-------------------------|--------------------|------------------|-------|---------------|-------|---------------------------|------------------------------|-------------------|---------------------------|--------------------|------------------------------|
|                    |              |                 | Length of record, years          | Annual mean | Highest | Date     | Lowest | Date    | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month |                           |                              | Number clear days | Number partly cloudy days | Number cloudy days |                              |
| Atlantic Drainage. |              |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                           |                              |                   |                           |                    |                              |
| Allentown          | Lehigh       | 254             | 18                               | 51.2        | 101     | July 21  | -1     | Jan. 20 | 19                      | 29.65              | 4.74             | July  | 0.97          | Oct.  | 16.8                      | 104                          | 221               | 88                        | 56                 | sw                           |
| Altoona            | Blair        | 1,615           | 34                               | 50.3        | 102     | Aug. 4   | -7     | Feb. 18 | 43                      | 23.90              | 3.26             | Apr.  | 0.50          | do.   | 27.4                      | 107                          | 235               | 82                        | 48                 | w.                           |
| Arendtsville       | Adams        | 700             | 6                                | 52.2        | 106     | do. 4    | -3     | Jan. 18 | 6                       | 24.31              | 5.05             | Mar.  | 0.14          | do.   | 20.3                      | 70                           | 177               | 93                        | 95                 | nw                           |
| Bellefonte         | Center       | 1,050           | 14                               | 48.5        | 100     | do. 4    | -7     | do. 20  | 25                      | 23.78              | 5.67             | June  | 0.36          | Aug.  | 23.1                      | 107                          | 86                | 118                       | 161                | sw.                          |
| Bethlehem          | Northampton  | 364             | 27                               | 54.0        | 100     | July 21† | 2      | do. 19† | 44                      | 31.75              | 6.46             | July  | 1.27          | do.   | 18.9                      | 105                          | 183               | 47                        | 135                | nw.                          |
| Carlisle           | Cumberland   | 467             | 64                               | 53.6        | 108     | Aug. 4   | -16    | do. 20  | 42                      | 24.56              | 5.66             | June  | 0.20          | Oct.  | 27.0                      | 88                           | 212               | 43                        | 105                | nw.                          |
| Catawissa          | Columbia     | 520             | 34                               | 51.9        | 105     | do. 4    | -8     | do. 20  | 34                      | 26.35              | 4.16             | do.   | 0.59          | Aug.  | 26.2                      | 88                           | 205               | 70                        | 90                 | .....                        |
| Center Hall        | Center       | 1,272           | 34                               | 49.1        | 100     | do. 3    | -4     | do. 19† | 34                      | 38.11              | 13.02            | do.   | 0.44          | Oct.  | 37.2                      | 93                           | 217               | 65                        | 83                 | .....                        |
| Chambersburg       | Franklin     | 580             | 31                               | 52.1        | 105     | do. 4    | -12    | do. 20  | 30                      | 19.60              | 3.61             | do.   | 0.27          | do.   | 22.1                      | 91                           | 144               | 125                       | 96                 | sw.                          |
| Clearfield         | Clearfield   | 1,120           | 20                               | 50.6        | 103     | do. 4    | -8     | do. 26  | 21                      | 29.32              | 4.37             | Apr.  | 0.73          | do.   | 39.8                      | 111                          | 160               | 111                       | 94                 | w.                           |
| Coatesville        | Chester      | 380             | 43                               | 52.8        | 102     | July 21  | -8     | do. 19  | 43                      | 34.40              | 4.84             | Sept. | 0.83          | do.   | 19.2                      | 103                          | 150               | 118                       | 97                 | nw.                          |
| Colebrook          | Lebanon      | 560             | 15                               | 51.0        | 102     | Aug. 4   | -10    | do. 19  | 21                      | 26.56              | 3.49             | June  | 0.19          | do.   | 25.4                      | 110                          | 193               | 59                        | 113                | w.                           |
| Emporium           | Cameron      | 1,050           | 43                               | 48.1        | 95      | July 21  | -12    | do. 26  | 43                      | 31.60              | 4.78             | do.   | 0.68          | Aug.  | 24.3                      | 110                          | 123               | 126                       | 116                | w.                           |
| Ephrata            | Lancaster    | 380             | 30                               | 53.2        | 101     | do. 21   | -12    | do. 19  | 30                      | 26.68              | 3.57             | do.   | 1.11          | July  | 21.1                      | 99                           | 165               | 75                        | 125                | w.                           |
| Freeland           | Luzerne      | 1,970           | 11                               | 49.0        | 96      | Aug. 4   | -6     | do. 19  | 15                      | 34.17              | 4.98             | July  | 0.57          | Oct.  | 64.9                      | 180                          | 102               | 118                       | 145                | nw.                          |
| George School      | Bucks        | 190             | 24                               | .....       | 102     | July 21  | 1      | Feb. 17 | 24                      | 30.81              | 3.80             | June  | 1.50          | do.   | 16.8                      | 111                          | 219               | 48                        | 98                 | nw.                          |
| Gettysburg         | Adams        | 553             | 55                               | 54.3        | 103     | Aug. 4   | -6     | Jan. 20 | 57                      | 23.63              | 3.08             | do.   | 0.38          | do.   | 19.0                      | 105                          | 177               | 88                        | 100                | s.                           |
| Gordon             | Schuylkill   | 840             | 27                               | 49.8        | 101     | do. 4    | -10    | do. 24  | 27                      | 30.70              | 4.62             | do.   | 0.56          | do.   | 44.3                      | 102                          | 177               | 75                        | 113                | w.                           |
| Gouldsboro         | Wayne        | 1,875           | 7                                | 44.6        | 93      | do. 4    | -19    | do. 20  | 16                      | 36.88              | 4.98             | do.   | 1.23          | do.   | 45.1                      | 116                          | 186               | 78                        | 101                | w.                           |
| Hamburg            | Berks        | 535             | 37                               | 51.3        | 100     | July 21  | -8     | do. 24  | 37                      | 30.86              | 4.57             | May   | 0.33          | do.   | 14.5                      | 82                           | 180               | 104                       | 81                 | w.                           |
| Hanover            | York         | 600             | 27                               | 55.8        | 102     | do. 21†  | 0      | do. 20  | 27                      | 25.87              | 6.04             | June  | 0.58          | do.   | 20.9                      | 116                          | 194               | 65                        | 106                | s.                           |
| Harrisburg         | Dauphin      | 361             | 43                               | 54.0        | 103     | Aug. 4   | 5      | do. 20  | 61                      | 27.29              | 5.38             | do.   | 0.11          | do.   | 20.4                      | 98                           | 116               | 133                       | 116                | w.                           |
| Hawley             | Wayne        | 900             | 12                               | 48.3        | 98      | do. 4    | -11    | do. 20† | 12                      | 30.71              | 3.96             | Aug.  | 1.08          | Jo.   | 32.7                      | 112                          | 171               | 107                       | 87                 | w.                           |
| Holtwood           | Lancaster    | 200             | 11                               | 56.1        | 104     | July 22  | 2      | do. 19  | 15                      | 22.53              | 2.65             | June  | 0.52          | do.   | 19.5                      | 92                           | 152               | 125                       | 88                 | .....                        |
| Huntingdon         | Huntingdon   | 650             | 43                               | 51.2        | 105     | Aug. 4   | -10    | do. 20  | 43                      | 23.99              | 3.65             | do.   | 0.40          | do.   | 11.8                      | 106                          | .....             | .....                     | .....              | w.                           |
| Hyndman            | Bedford      | 977             | 18                               | 53.3        | 106     | do. 3†   | -1     | do. 20  | 18                      | 20.60              | 3.19             | do.   | 0.70          | Jan.  | 18.5                      | 114                          | 124               | 63                        | 178                | .....                        |
| Lancaster          | Lancaster    | 255             | 27                               | 52.1        | 104     | July 21  | -24    | do. 19  | 43                      | 26.37              | 3.43             | do.   | 0.65          | Oct.  | 24.5                      | 86                           | 224               | 58                        | 83                 | w.                           |
| Lawrenceville      | Tioga        | 1,000           | 33                               | 47.8        | 98      | do. 21   | -12    | do. 23  | 33                      | 27.27              | 6.62             | do.   | 0.39          | Nov.  | 23.0                      | 90                           | 155               | 93                        | 117                | .....                        |
| Lebanon            | Lebanon      | 469             | 42                               | 54.1        | 104     | Aug. 4   | -3     | do. 20  | 90                      | 26.56              | 4.15             | do.   | 0.13          | Oct.  | 17.6                      | 97                           | 194               | 102                       | 69                 | sw.                          |
| Lewisburg          | Union        | 450             | 55                               | 52.2        | 106     | do. 4    | -8     | do. 20  | 56                      | 29.17              | 4.91             | do.   | 0.27          | do.   | 17.9                      | 107                          | 161               | 76                        | 128                | w.                           |
| Lock Haven         | Clinton      | 560             | 42                               | 53.2        | 105     | do. 4    | -2     | do. 26† | 42                      | 27.77              | 6.57             | do.   | 0.53          | do.   | 26.0                      | 111                          | 122               | 134                       | 109                | sw.                          |
| Lykens             | Dauphin      | 680             | 16                               | 51.6        | 106     | do. 4    | -7     | do. 24  | 16                      | 28.33              | 4.57             | do.   | 0.31          | do.   | 18.0                      | 109                          | 198               | 102                       | 65                 | nw.                          |
| Mauch Chunk        | Carbon       | 600             | 41                               | 51.1        | 103     | do. 4†   | -5     | do. 20  | 41                      | 33.47              | 5.35             | May   | 0.45          | do.   | 26.1                      | 103                          | 183               | 87                        | 95                 | s.                           |
| Mifflintown        | Juniata      | 445             | 27                               | 51.9        | 106     | do. 4    | -6     | do. 20  | 27                      | 24.45              | 4.57             | June  | 0.35          | do.   | 18.4                      | 105                          | 164               | 43                        | 158                | w.                           |
| Montrose           | Susquehanna  | 1,658           | 28                               | 46.3        | 91      | July 21† | -15    | do. 19  | 27                      | 37.60              | 7.01             | Sept. | 1.25          | do.   | 30.0                      | 93                           | 142               | 92                        | 131                | w.                           |
| Muncy Valley       | Sullivan     | 1,045           | 19                               | 48.1        | 103     | Aug. 4   | -15    | do. 19  | 19                      | 31.47              | 4.63             | Mar.  | 0.91          | do.   | 19.9                      | 105                          | 180               | 88                        | 97                 | nw.                          |
| Neshaminy Falls    | Bucks        | 60              | 16                               | 52.0        | 102     | July 21  | -2     | Feb. 17 | 41                      | 35.22              | 5.07             | June  | 1.93          | Apr.  | 10.0                      | 99                           | 216               | 55                        | 94                 | s.                           |
| Palmerton          | Carbon       | 398             | 12                               | 50.5        | 100     | do. 21†  | -6     | Jan. 19 | 14                      | 29.28              | 5.29             | May   | 0.95          | Oct.  | 19.1                      | 95                           | 111               | 131                       | 123                | sw.                          |
| Philadelphia       | Philadelphia | 114             | 59                               | 56.7        | 103     | do. 21   | 8      | Feb. 16 | 59                      | 33.97              | 4.96             | June  | 1.51          | Aug.  | 7.5                       | 108                          | 107               | 134                       | 124                | sw.                          |
| Phila. Navy Yard   | Philadelphia | 12              | 15                               | 55.0        | 102     | do. 21   | 8      | do. 16  | 15                      | 30.47              | 4.85             | July  | 1.09          | Nov.  | 9.9                       | 107                          | .....             | .....                     | .....              | .....                        |
| Phoenixville       | Chester      | 100             | 20                               | 55.2        | 106     | do. 21   | -3     | Jan. 24 | 20                      | 34.68              | 6.39             | May   | 1.45          | Oct.  | 13.3                      | 85                           | 204               | 113                       | 48                 | s.                           |
| Quakertown         | Bucks        | 496             | 44                               | 51.7        | 100     | do. 21   | -6     | do. 20† | 46                      | 31.50              | 5.21             | July  | 1.42          | do.   | 17.0                      | 102                          | 162               | 97                        | 106                | nw.                          |
| Reading            | Berks        | 325             | 53                               | 54.2        | 101     | do. 21   | 2      | do. 20  | 61                      | 27.68              | 3.69             | May   | 0.66          | do.   | 16.7                      | 101                          | 123               | 118                       | 124                | w.                           |
| Scranton           | Lackawanna   | 805             | 35                               | 50.4        | 99      | do. 21   | -1     | do. 19  | 36                      | 26.12              | 2.83             | June  | 1.20          | Jan.  | 31.4                      | 123                          | 87                | 156                       | 122                | sw.                          |
| Selinsgrove        | Snyder       | 455             | 41                               | 52.1        | 105     | Aug. 4   | -6     | do. 20  | 42                      | 24.32              | 3.50             | do.   | 0.68          | Oct.  | 30.6                      | 87                           | 175               | 85                        | 105                | sw.                          |
| Shawmont           | Philadelphia | 51              | 14                               | 54.8        | 100     | July 21  | 6      | Feb. 17 | 35                      | 32.63              | 4.48             | do.   | 1.45          | do.   | 8.5                       | 99                           | 129               | 107                       | 129                | nw.                          |
| State College      | Center       | 1,217           | 43                               | 50.6        | 101     | Aug. 4   | -5     | do. 16  | 46                      | 24.81              | 4.49             | do.   | 0.36          | do.   | 23.4                      | 102                          | 149               | 126                       | 90                 | w.                           |
| Stroudsburg        | Monroe       | 500             | 15                               | 48.8        | 102     | July 21  | -11    | Jan. 20 | 16                      | 27.14*             | 3.84*            | do.   | 1.11          | Sept. | 22.3                      | .....                        | 147               | 94                        | 124                | nw.                          |
| Towanda            | Bradford     | 754             | 36                               | 48.6        | 96      | Aug. 4   | -12    | do. 24  | 36                      | 32.03              | 6.46             | Sept. | 0.61          | Oct.  | 23.8                      | 124                          | 117               | 90                        | 158                | sw.                          |
| Wellsboro          | Tioga        | 1,419           | 51                               | 47.4        | 97      | July 21† | -12    | do. 23† | 66                      | 23.92              | 5.70             | June  | 0.53          | Aug.  | 28.1                      | 34                           | 204               | 69                        | 92                 | w.                           |
| West Chester       | Chester      | 455             | 92                               | 54.3        | 99      | do. 21   | 3      | Feb. 16 | 98                      | 32.45              | 4.00             | Sept. | 0.92          | Oct.  | 16.1                      | 78                           | 191               | 103                       | 71                 | w.                           |
| Williamsport       | Lycoming     | 521             | 41                               | 51.3        | 102     | Aug. 4   | -3     | Jan. 20 | 44                      | 27.68              | 4.47             | Mar.  | 0.25          | do.   | 12.9                      | 118                          | 162               | 58                        | 145                | w.                           |
| York               | York         | 400             | 31                               | 53.5        | 104     | do. 4    | -15    | do. 19  | 43                      | 28.54              | 4.98             | June  | 0.40          | do.   | 23.0                      | 95                           | 176               | 127                       | 62                 | w.                           |
| Ohio Drainage.     |              |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                           |                              |                   |                           |                    |                              |
| Beaver Dam         | Beaver       | 700             | 17                               | 52.0        | 98      | July 19† | -2     | Jan. 26 | 38                      | 28.97              | 4.04             | June  | 0.49          | Nov.  | .....                     | 143                          | 98                | 107                       | 160                | sw.                          |
| Bradford           | McKean       | 1,460           | 13                               | 47.2        | 96      | do. 28   | -12    | do. 26  | 15                      | 32.35              | 4.59             | Mar.  | 0.75          | Aug.  | 62.1                      | 133                          | 89                | 154                       | 122                | w.                           |
| Brookville         | Jefferson    | 1,173           | 39                               | .....       | 100     | Aug. 4   | -23    | do. 26  | 40                      | 30.26              | 4.69             | Jan.  | 0.62          | do.   | 36.9                      | 119                          | 217               | 65                        | 83                 | .....                        |
| Butler             | Butler       | 1,152           | 9                                | 50.9        | 100     | do. 4    | -10    | do. 26  | 9                       | 29.06              | 4.98             | June  | 0.84          | do.   | 23.6                      | 89                           | 161               | 72                        | 132                | w.                           |
| Chambersville      | Indiana      | 1,047           | 1                                | 49.9        | 102     | do. 4    | -15    | do. 26  | 5                       | 26.38              | 4.04             | do.   | 0.81          | Oct.  | 23.6                      | 133                          | 125               | 84                        | 206                | w.                           |
| Claysville         | Washington   | 1,150           | 27                               | 52.8        | 103     | July 20† | -6     | do. 26  | 27                      | 26.85              | 4.90             | do.   | 0.85          | July  | 20.2                      | 127                          | 207               | 44                        | 114                | s.                           |
| Corry              | Erie         | 1,430           | 19                               | .....       | .....   | .....    | -4     | Feb. 16 | 19                      |                    |                  |       |               |       |                           |                              |                   |                           |                    |                              |



Monthly and Annual Precipitation for the Year 1930, with Departures from the Normal

|                          | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|--------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
| STATIONS                 | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| ALLENTOWN.....           | 2.24          | -1.41     | 2.36          | -0.65     | 2.27          | -1.71     | 2.86          | -0.98     | 3.85          | +0.23     | 2.65          | -0.79     | 4.74          | -0.31     | 1.71          | -2.64     | 1.45          | -1.90     | 0.97          | -2.44     | 1.76          | -0.64     | 2.79          | -1.06     | 29.65         | -14.20    |
| Bethlehem.....           | 2.01          | -1.57     | 2.16          | -1.33     | 2.50          | -1.14     | 2.99          | -0.16     | 2.13          | -1.59     | 2.96          | -1.21     | 6.46          | +1.90     | 1.27          | -3.05     | 1.61          | -1.78     | 1.82          | -1.41     | 3.08          | -0.03     | 2.76          | -0.74     | 31.75         | -12.11    |
| Coatesville.....         | 2.92          | -1.05     | 3.01          | -1.09     | 3.02          | -1.34     | 2.70          | -0.93     | 4.33          | +0.30     | 3.39          | -0.65     | 3.17          | -1.85     | 1.87          | -2.56     | 4.84          | +0.94     | 0.83          | -2.69     | 1.63          | -1.56     | 2.69          | -1.53     | 34.40         | -14.01    |
| Conshohocken.....        | 2.94          | .....     | 2.47          | .....     | 2.63          | .....     | 1.45          | .....     | 3.48          | .....     | 2.71          | .....     | 2.85          | .....     | 1.90          | .....     | 2.69          | .....     | 1.41          | .....     | *2.29         | .....     | 1.85          | .....     | 28.67         | .....     |
| Doylestown.....          | 2.35          | -1.31     | 2.62          | -1.24     | 2.90          | -1.17     | 2.81          | -1.17     | 3.59          | -0.42     | 5.43          | +1.43     | 3.30          | -1.56     | 2.05          | -3.48     | 1.48          | -2.47     | 1.54          | -2.44     | 1.99          | -1.31     | 2.04          | -1.98     | 32.10         | -17.12    |
| Freeland.....            | 2.06          | -1.55     | 2.16          | -1.04     | 3.96          | +0.99     | 4.25          | -0.11     | 3.34          | -1.04     | 4.10          | -0.44     | 4.98          | +0.22     | 1.31          | -3.31     | 1.98          | -1.80     | 0.57          | -3.30     | 1.41          | -2.27     | 4.05          | +0.59     | 34.17         | -13.66    |
| George School.....       | 2.64          | -0.43     | 3.36          | +0.26     | 2.84          | -0.62     | 1.90          | -1.70     | 2.46          | -1.15     | 3.80          | +0.57     | 3.07          | -1.31     | 3.16          | -1.44     | 1.82          | -1.20     | 1.50          | -1.75     | 1.77          | -0.94     | 2.49          | -1.32     | 30.81         | -11.13    |
| Gouldsboro.....          | 1.60          | -1.64     | 2.46          | -1.27     | 4.08          | +0.82     | 3.82          | -0.88     | 4.14          | +0.09     | 4.98          | +0.25     | 4.29          | -1.38     | 2.82          | -2.36     | 2.68          | -0.64     | 1.23          | -2.22     | 2.32          | -0.51     | 2.46          | -0.65     | 36.88         | -10.39    |
| Graterford.....          | *2.78         | .....     | 3.65          | .....     | 2.41          | .....     | 2.02          | .....     | 3.73          | .....     | 3.29          | .....     | 2.41          | .....     | 1.79          | .....     | 1.66          | .....     | 1.12          | .....     | 2.20          | .....     | 2.58          | .....     | 29.59         | .....     |
| Hamburg.....             | 1.73          | -2.03     | 2.81          | -0.58     | 2.71          | -1.43     | 3.37          | -0.88     | 4.57          | +0.07     | 2.49          | -1.73     | 2.42          | -2.29     | 2.65          | -2.71     | 2.08          | -2.12     | 0.33          | -3.73     | 1.55          | -1.31     | 3.65          | -0.20     | 30.71         | -18.94    |
| Hawley.....              | 1.58          | -1.42     | 1.76          | -1.23     | 3.38          | +0.68     | 2.73          | -0.54     | 3.01          | -0.74     | 3.11          | -0.94     | 3.03          | -0.87     | 3.96          | -0.12     | 2.92          | -0.13     | 1.08          | -2.22     | 2.03          | -1.19     | 2.12          | -0.75     | 30.71         | -9.47     |
| Hollisterville.....      | 1.49          | .....     | 1.68          | .....     | 3.18          | .....     | 3.62          | .....     | 3.89          | .....     | 4.16          | .....     | 3.69          | .....     | 2.26          | .....     | 4.00          | .....     | 1.02          | .....     | 1.89          | .....     | 2.82          | .....     | 33.70         | .....     |
| Lakeville.....           | 1.48          | .....     | 1.58          | .....     | 3.71          | .....     | 2.84          | .....     | 3.86          | .....     | 3.78          | .....     | 3.33          | .....     | 2.74          | .....     | 4.20          | .....     | 1.09          | .....     | 1.84          | .....     | 2.42          | .....     | 32.87         | .....     |
| Lansford.....            | 1.34          | -2.04     | 1.79          | -1.12     | 2.25          | -1.26     | 3.01          | -0.72     | 3.95          | +0.50     | 2.45          | -1.78     | 3.24          | -1.42     | 0.99          | -3.77     | 3.30          | -0.52     | 0.46          | -3.88     | 1.64          | -0.67     | 2.03          | -1.65     | 26.45         | -18.33    |
| Marcus Hook.....         | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Mauch Chunk.....         | 1.74          | -2.04     | 2.36          | -1.51     | 3.32          | -1.18     | 3.41          | -0.51     | 5.35          | +1.34     | 2.83          | -1.47     | 1.94          | -3.16     | 2.12          | -2.85     | 4.36          | +0.49     | 0.45          | -3.31     | 2.88          | -0.45     | 2.71          | -1.53     | 33.47         | -16.18    |
| Mount Pocono.....        | 1.87          | -1.28     | 1.74          | -1.17     | 1.04          | -2.72     | *3.83         | -0.35     | *3.74         | -0.05     | 5.19          | +0.40     | 4.78          | -0.38     | 2.10          | -2.24     | 3.38          | -1.51     | 1.29          | -3.73     | 4.29          | +1.57     | 3.88          | +0.05     | 37.18         | -11.41    |
| Narberth.....            | 3.26          | .....     | 3.62          | .....     | 3.51          | .....     | 1.93          | .....     | 4.27          | .....     | *3.85         | .....     | *3.00         | .....     | *2.29         | .....     | 4.02          | .....     | 1.89          | .....     | 3.35          | .....     | 2.55          | .....     | 37.54         | .....     |
| Neshaminy Falls.....     | 2.12          | .....     | 3.83          | .....     | 3.13          | .....     | 1.93          | .....     | 3.08          | .....     | 5.07          | .....     | 3.97          | .....     | 3.45          | .....     | 1.96          | .....     | 1.95          | .....     | 2.62          | .....     | 2.11          | .....     | 35.22         | .....     |
| Palmerston.....          | 1.25          | .....     | 1.52          | .....     | 2.37          | .....     | 3.07          | .....     | 5.29          | .....     | 2.71          | .....     | 2.78          | .....     | 1.78          | .....     | 3.50          | .....     | 0.95          | .....     | 2.41          | .....     | 1.65          | .....     | 29.28         | .....     |
| Paupack.....             | 1.39          | .....     | 1.06          | .....     | 4.05          | .....     | 3.41          | .....     | 3.25          | .....     | 4.23          | .....     | 3.81          | .....     | 2.54          | .....     | 4.75          | .....     | 1.07          | .....     | 2.08          | .....     | 2.38          | .....     | 34.02         | .....     |
| Philadelphia.....        | 3.15          | -0.15     | 3.65          | +0.33     | 2.58          | -0.81     | 1.64          | -1.41     | 3.25          | -0.01     | 4.96          | +1.72     | 4.06          | -0.09     | 1.51          | -3.11     | 2.57          | -0.57     | 1.74          | -1.07     | 2.36          | -0.34     | 2.50          | -0.93     | 33.97         | -6.44     |
| Philadelphia-Gtn.....    | 2.98          | .....     | 3.63          | .....     | 2.71          | .....     | 1.93          | .....     | 3.65          | .....     | 5.59          | .....     | 3.10          | .....     | 1.64          | .....     | 2.11          | .....     | 1.54          | .....     | 2.96          | .....     | 2.17          | .....     | 34.01         | .....     |
| Phila. Navy Yard.....    | 2.83          | -0.40     | 3.74          | +0.52     | 2.53          | -0.79     | 1.46          | -1.78     | 2.61          | -0.70     | 4.32          | +0.68     | 4.85          | -0.53     | 1.32          | -3.58     | 1.48          | -1.59     | 1.73          | -0.92     | 1.09          | -1.39     | 2.51          | -0.77     | 36.47         | -11.25    |
| Phila. Point Breeze..... | 3.16          | .....     | 3.66          | .....     | 2.54          | .....     | 1.62          | .....     | 3.54          | .....     | 4.87          | .....     | 3.76          | .....     | 1.89          | .....     | 2.67          | .....     | 1.72          | .....     | 2.27          | .....     | 2.04          | .....     | 32.74         | .....     |
| Phoenixville.....        | 3.05          | -0.90     | 3.14          | -0.03     | 3.12          | -0.53     | 2.66          | -0.83     | 6.39          | +2.43     | 2.68          | -0.98     | 2.44          | -2.60     | 2.82          | -1.70     | 2.59          | -0.49     | 1.45          | -1.35     | 1.53          | -1.19     | 2.77          | -0.45     | 34.68         | -8.62     |
| Pleasant Mount.....      | 3.06          | .....     | 2.36          | .....     | 2.94          | .....     | 3.01          | .....     | 4.36          | .....     | 3.32          | .....     | 2.62          | .....     | 2.66          | .....     | 5.32          | .....     | 1.79          | .....     | 2.61          | .....     | 2.20          | .....     | 36.16         | .....     |
| Pottstown.....           | 2.44          | -0.99     | 2.73          | -0.80     | 2.54          | -1.33     | 1.87          | -1.34     | 4.28          | -0.09     | 1.56          | -2.25     | 1.84          | -3.60     | 2.00          | -1.93     | 2.41          | -0.92     | 0.67          | -2.42     | 1.81          | -1.41     | 2.30          | -1.37     | 26.45         | -18.45    |
| Pottsville.....          | 2.06          | -1.87     | 2.70          | -0.85     | 3.70          | -0.41     | 3.50          | -0.24     | 4.78          | +0.42     | 3.67          | -0.61     | 1.23          | -3.81     | 2.19          | -3.07     | 2.05          | -1.85     | 0.24          | -3.79     | 1.70          | -1.59     | 2.24          | -1.80     | 30.46         | -18.99    |
| Quakertown.....          | 2.63          | -0.86     | 2.42          | -1.34     | 2.51          | -1.20     | 2.75          | -0.48     | 3.35          | -0.67     | 2.32          | -1.34     | 5.21          | +0.39     | 1.84          | -2.45     | 1.48          | -2.18     | 1.42          | -1.95     | 2.94          | -0.22     | 2.68          | -0.91     | 31.50         | -13.21    |
| Reading.....             | 2.29          | -1.28     | 2.60          | -0.82     | 2.07          | -1.45     | 2.91          | -0.36     | 3.69          | +0.02     | 2.55          | -1.00     | 1.73          | -2.53     | 1.21          | -3.00     | 3.25          | +0.04     | 0.66          | -2.46     | 2.11          | -0.62     | 2.61          | -0.95     | 27.68         | -14.41    |
| Shawmont.....            | 2.72          | -0.53     | 3.25          | +0.07     | 3.18          | -0.49     | 1.90          | -1.27     | 3.48          | +0.02     | 4.48          | +1.01     | 2.94          | -1.65     | 2.36          | -2.77     | 2.46          | -0.77     | 1.44          | -1.90     | 2.15          | -0.73     | 2.27          | -1.62     | 32.63         | -10.63    |
| Snow Hill.....           | 2.26          | .....     | 1.47          | .....     | 3.80          | .....     | 3.86          | .....     | 4.24          | .....     | 4.21          | .....     | 3.60          | .....     | 3.26          | .....     | 2.98          | .....     | 0.92          | .....     | 3.39          | .....     | 2.22          | .....     | 36.21         | .....     |
| Stroudsburg.....         | 2.29          | -0.93     | 1.60          | -1.39     | 3.52          | -0.33     | 3.41          | -0.37     | 2.62          | -0.99     | *3.84         | -0.35     | 1.71          | -4.09     | 2.12          | -3.19     | 1.11          | -1.84     | 1.38          | -2.72     | 2.02          | -1.42     | 1.52          | -2.20     | 27.14         | -19.82    |
| West Chester.....        | 3.17          | -0.67     | 3.07          | -0.83     | 3.15          | -0.92     | 1.96          | -1.82     | 3.63          | -0.82     | 3.84          | -0.35     | 2.27          | -2.56     | 1.54          | -3.14     | 4.00          | +0.08     | 0.92          | -2.82     | 2.67          | -0.96     | 2.23          | -1.82     | 32.45         | -16.67    |
| West Grove.....          | 2.75          | .....     | 2.66          | .....     | 2.27          | .....     | 1.78          | .....     | 2.90          | .....     | 2.35          | .....     | 4.18          | .....     | 1.15          | .....     | 3.50          | .....     | 0.70          | .....     | 2.19          | .....     | 2.15          | .....     | 28.58         | .....     |
| Altoona.....             | 1.26          | -1.24     | 2.36          | +0.25     | 2.88          | +0.18     | 3.26          | +0.39     | 1.75          | -2.27     | 2.53          | -1.39     | 1.48          | -1.79     | 1.62          | -1.77     | 2.36          | -0.42     | 0.50          | -1.99     | 1.28          | -0.63     | 2.62          | +0.27     | 23.96         | -10.41    |
| Ansonia.....             | 2.02          | -0.39     | 2.00          | +0.07     | 3.02          | +0.75     | 2.79          | -0.85     | 2.41          | -1.47     | 5.47          | +1.32     | 1.35          | -1.87     | 0.90          | -2.45     | 2.83          | -0.38     | 0.63          | -2.58     | 0.22          | -1.55     | 1.79          | -0.69     | 25.48         | -9.49     |
| Arendtsville.....        | 2.50          | .....     | 2.18          | .....     | 5.05          | .....     | 1.96          | .....     | 1.92          | .....     | 3.56          | .....     | 0.17          | .....     | 0.92          | .....     | 2.53          | .....     | 0.14          | .....     | 1.09          | .....     | 2.29          | .....     | 24.81         | .....     |
| Baker's Summit.....      | 1.36          | .....     | 3.08          | .....     | 3.13          | .....     | 2.84          | .....     | 1.13          | .....     | 2.68          | .....     | 2.10          | .....     | 1.35          | .....     | 0.78          | .....     | 0.21          | .....     | 1.10          | .....     | 2.82          | .....     | 22.58         | .....     |
| Bellefonte.....          | 1.08          | -1.71     | 2.71          | +0.19     | 2.31          | -1.49     | 2.72          | -1.35     | 1.88          | -1.97     | 5.67          | +0.67     | 1.41          | -2.67     | 0.36          | -3.88     | 1.42          | -1.87     | 0.43          | -2.69     | 0.59          | -1.21     | 1.69          | -0.21     | 21.94         | .....     |
| Blossville.....          | 0.90          | .....     | 2.34          | .....     | 2.68          |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |



Monthly and Annual Precipitation for the Year 1930, with Departures from the Normal.—Continued

| STATIONS               | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |  |
|------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|--|
|                        | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |  |
| Corry.....             | 4.43          | +1.13     | 3.74          | +0.51     | 3.90          | +0.63     | 3.66          | +0.26     | 2.46          | -2.22     | 3.51          | -2.12     | 1.69          | -1.64     | *0.98         | -3.01     | 2.13          | -1.96     | 2.33          | -1.54     | 2.48          | -1.40     | 2.21          | -1.35     | 33.52         | -12.71    |  |
| Coudersport.....       | 3.30          | .....     | 1.95          | .....     | 3.62          | .....     | 3.99          | .....     | 2.42          | .....     | 4.33          | .....     | 1.16          | .....     | 0.87          | .....     | 2.79          | .....     | 0.78          | .....     | 1.77          | .....     | 1.73          | .....     | 28.71         | .....     |  |
| Cresson.....           | 1.11          | .....     | 4.88          | .....     | 2.89          | .....     | 2.65          | .....     | 1.81          | .....     | 4.10          | .....     | 3.04          | .....     | 1.75          | .....     | 1.71          | .....     | 0.20          | .....     | 1.68          | .....     | 3.14          | .....     | 28.96         | .....     |  |
| Derry.....             | 1.80          | -2.11     | 3.68          | +0.69     | 3.17          | -0.89     | 1.80          | -1.92     | 4.10          | +0.65     | 6.53          | +1.68     | 2.19          | -2.64     | 0.98          | -3.19     | 3.15          | +0.34     | 0.91          | -2.34     | 0.85          | -1.72     | 2.30          | -1.00     | 31.46         | -12.46    |  |
| Donora.....            | 1.33          | .....     | 1.83          | .....     | 2.66          | .....     | 1.53          | .....     | 3.04          | .....     | 5.05          | .....     | 0.93          | .....     | 1.39          | .....     | 2.22          | .....     | 0.75          | .....     | 1.04          | .....     | 1.91          | .....     | 23.68         | .....     |  |
| Ebensburg.....         | 1.69          | -1.59     | 3.08          | +0.22     | 1.79          | -0.95     | 0.66          | -3.08     | 2.11          | -2.14     | 3.78          | -0.91     | 2.89          | -1.36     | 1.55          | -2.57     | 2.85          | -0.71     | 0.74          | -2.64     | 1.47          | -1.83     | 1.69          | -0.90     | 24.30         | -18.46    |  |
| Elk Lick.....          | 2.88          | -0.74     | 3.15          | -0.16     | 3.00          | -0.26     | 2.50          | -1.47     | 2.38          | -1.62     | 4.30          | -1.31     | 1.22          | -2.90     | 2.97          | -1.48     | 1.50          | -1.54     | 1.16          | -2.40     | 2.21          | -0.94     | 3.72          | +0.63     | 30.99         | -14.24    |  |
| Falls Creek.....       | 3.28          | .....     | 3.07          | .....     | 3.02          | .....     | 3.97          | .....     | 2.56          | .....     | 2.56          | .....     | 3.79          | .....     | 0.41          | .....     | 1.61          | .....     | 0.92          | .....     | 1.51          | .....     | 2.34          | .....     | 29.04         | .....     |  |
| Franklin.....          | 4.27          | +0.65     | 2.36          | -0.53     | 3.12          | -0.33     | 3.97          | +0.94     | 2.82          | -0.67     | 3.24          | -1.53     | 2.09          | -2.39     | 0.82          | -2.98     | 1.06          | -2.43     | 1.64          | -1.47     | 1.84          | -1.17     | 2.47          | -0.85     | 29.70         | -12.76    |  |
| Freeport.....          | 2.44          | -1.41     | 3.95          | +0.79     | 2.97          | -0.66     | 1.74          | -1.58     | 3.59          | -0.29     | 4.89          | +0.63     | 1.47          | -2.71     | 1.12          | -2.60     | 1.07          | -1.80     | 0.92          | -1.97     | 0.72          | -2.17     | 2.44          | -0.94     | 27.32         | -14.71    |  |
| Greensboro.....        | 1.10          | -2.34     | 2.69          | -0.28     | 3.13          | -0.49     | 1.44          | -1.94     | 3.22          | -0.66     | 5.33          | +0.50     | 1.57          | -3.25     | 2.71          | -0.81     | 1.33          | -1.64     | 0.67          | -2.25     | 0.65          | -2.25     | 2.51          | -0.59     | 26.35         | -16.00    |  |
| Greensburg.....        | 1.73          | -2.02     | 3.13          | +0.27     | 3.00          | +0.20     | 1.98          | -1.67     | 5.27          | +1.54     | 4.05          | -0.05     | 1.22          | -2.57     | 0.85          | -3.52     | 2.40          | -0.80     | 0.82          | -2.31     | 0.96          | -1.00     | 1.88          | -1.27     | 27.29         | -13.20    |  |
| Greenville.....        | 4.27          | +0.55     | 2.04          | -0.55     | 2.35          | -1.31     | 3.87          | +0.60     | 1.92          | -1.68     | 3.07          | -1.14     | 1.55          | -2.81     | 1.25          | -2.51     | 2.18          | -1.04     | 1.88          | -1.77     | 2.36          | -0.34     | 1.28          | -1.71     | 28.02         | -13.71    |  |
| Grove City.....        | 3.68          | +0.16     | 2.24          | -0.10     | 2.29          | -0.74     | 2.96          | -1.07     | 2.97          | -0.83     | 3.51          | -0.53     | 1.74          | -2.48     | 0.67          | -3.00     | 1.54          | -1.54     | 1.08          | -2.50     | 1.30          | -0.84     | 1.78          | -1.07     | 25.76         | -14.54    |  |
| Herr's Island Dam..... | 1.86          | -1.19     | 3.98          | +1.60     | 3.49          | -0.01     | 1.99          | -1.08     | 2.50          | -0.32     | 3.95          | -0.23     | 1.24          | -2.23     | 1.41          | -2.01     | 0.64          | -1.72     | 1.53          | -1.18     | 0.66          | -1.11     | 2.03          | -0.78     | 25.28         | -10.26    |  |
| Ingram.....            | 2.26          | .....     | 3.46          | .....     | 3.58          | .....     | 2.28          | .....     | 2.48          | .....     | 3.65          | .....     | 1.36          | .....     | 1.24          | .....     | 1.14          | .....     | 1.61          | .....     | 0.97          | .....     | 2.07          | .....     | 26.10         | .....     |  |
| Irwin.....             | 1.51          | -1.53     | 2.70          | +0.45     | 1.72          | -1.82     | 1.37          | -1.98     | 2.95          | -0.29     | 3.63          | -1.02     | 0.58          | -3.58     | 0.69          | -3.38     | 1.61          | -1.16     | 0.61          | -2.22     | 0.77          | -1.49     | 1.60          | -1.35     | 19.74         | -19.37    |  |
| Johnstown.....         | 2.31          | -1.98     | 4.21          | +0.46     | 3.38          | -0.66     | 3.99          | +0.03     | 2.73          | -1.86     | 4.17          | -1.02     | 2.44          | -1.96     | 1.96          | -2.59     | 2.33          | -1.17     | 0.62          | -2.37     | 1.54          | -1.38     | 2.71          | -0.94     | 32.39         | -15.44    |  |
| Kregar.....            | 1.83          | .....     | 3.03          | .....     | 3.48          | .....     | 2.77          | .....     | 2.22          | .....     | 6.76          | .....     | 2.20          | .....     | 4.12          | .....     | 3.15          | .....     | 0.89          | .....     | 1.77          | .....     | 2.73          | .....     | 34.95         | .....     |  |
| Linesville.....        | *4.21         | .....     | *2.42         | .....     | 4.45          | .....     | 2.82          | .....     | 1.66          | .....     | 4.43          | .....     | 4.26          | .....     | 1.05          | .....     | 4.96          | .....     | 2.57          | .....     | 2.55          | .....     | 2.35          | .....     | 37.73         | .....     |  |
| Lock No. 4.....        | 1.26          | -1.93     | 2.01          | -0.72     | 3.08          | -0.22     | 2.50          | -0.67     | 3.08          | -0.59     | 5.24          | +1.23     | 0.99          | -3.36     | 1.50          | -2.12     | 2.19          | -0.59     | 0.95          | -1.81     | 0.77          | -1.63     | 1.86          | -1.03     | 25.43         | -13.44    |  |
| Lycippus.....          | 1.74          | -2.33     | 3.06          | +0.02     | 2.63          | -1.11     | 2.37          | -1.41     | 3.52          | -0.44     | 5.77          | +1.28     | 1.66          | -3.38     | 1.79          | -2.52     | 3.13          | +0.10     | 0.79          | -2.26     | 1.48          | -1.08     | 2.19          | -1.50     | 30.13         | -14.63    |  |
| Meadville.....         | *4.00         | +0.63     | 2.79          | -0.24     | 3.62          | +0.22     | 2.97          | -0.37     | 1.03          | -3.42     | 3.95          | -0.40     | 2.12          | -2.13     | 1.27          | -2.86     | 3.09          | -0.46     | 2.66          | -0.94     | 3.08          | -0.20     | 1.61          | -1.75     | 32.09         | -11.92    |  |
| Mt. Lebanon.....       | 1.79          | .....     | 2.61          | .....     | 2.91          | .....     | 2.09          | .....     | 3.36          | .....     | 3.90          | .....     | 1.18          | .....     | 1.03          | .....     | 1.28          | .....     | 1.51          | .....     | 0.89          | .....     | 1.91          | .....     | 24.46         | .....     |  |
| Natrona.....           | 2.55          | .....     | 3.98          | .....     | 2.73          | .....     | 1.88          | .....     | 3.41          | .....     | 4.53          | .....     | 1.50          | .....     | 1.29          | .....     | 1.35          | .....     | 0.96          | .....     | 0.70          | .....     | 2.29          | .....     | 27.17         | .....     |  |
| New Castle.....        | 4.11          | +1.20     | 3.44          | +1.03     | 3.51          | +0.76     | 2.93          | 0.00      | 2.68          | -0.62     | 3.28          | -1.16     | 2.00          | -2.14     | 1.64          | -1.57     | 1.97          | -1.17     | 1.63          | -1.11     | 1.38          | -0.78     | 2.82          | +0.36     | 31.39         | -5.20     |  |
| Newell.....            | 0.94          | .....     | 1.46          | .....     | 1.92          | .....     | 1.08          | .....     | 2.40          | .....     | 4.29          | .....     | 1.22          | .....     | 1.76          | .....     | 3.42          | .....     | 0.54          | .....     | 0.79          | .....     | 1.74          | .....     | 21.56         | .....     |  |
| Parkers Landing.....   | 4.63          | +1.22     | 3.63          | +0.55     | 3.09          | -0.49     | 2.67          | -0.89     | 3.09          | -0.73     | 2.03          | -2.31     | 0.85          | -3.49     | 0.45          | -3.72     | 1.85          | -1.45     | 1.00          | -1.88     | 1.01          | -1.84     | 3.14          | -0.04     | 27.44         | -15.07    |  |
| Pennline.....          | 4.40          | .....     | 2.12          | .....     | 4.19          | .....     | 2.78          | .....     | 1.87          | .....     | 4.46          | .....     | 2.76          | .....     | 2.68          | .....     | 3.77          | .....     | 2.53          | .....     | 2.12          | .....     | 2.28          | .....     | 35.96         | .....     |  |
| Pittsburgh.....        | 1.67          | -1.38     | 3.12          | +0.50     | 2.82          | -0.21     | 2.60          | -0.32     | 1.95          | -1.26     | 3.41          | -0.40     | 1.38          | -2.72     | 1.10          | -2.13     | 0.74          | -1.84     | 1.17          | -1.35     | 1.02          | -1.27     | 1.72          | -1.14     | 22.65         | -13.52    |  |
| Ridgway.....           | 3.86          | +1.09     | 2.66          | +0.27     | 3.14          | -0.23     | 3.71          | +0.85     | 2.70          | -1.48     | 3.75          | -0.68     | 1.78          | -2.19     | 0.33          | -3.11     | 2.40          | -0.48     | 1.96          | -1.26     | 1.56          | -1.08     | 1.89          | -0.65     | 29.74         | -8.95     |  |
| Saltsburg.....         | 2.02          | -1.76     | 4.42          | +1.43     | 3.19          | 0.00      | 1.90          | -1.48     | 3.20          | -0.22     | 4.25          | +0.23     | 2.01          | -1.94     | 0.89          | -3.01     | 1.76          | -1.57     | 0.69          | -2.48     | 0.78          | -1.22     | 1.56          | -1.74     | 26.67         | -13.81    |  |
| Sharon.....            | 3.04          | .....     | 1.74          | .....     | 2.47          | .....     | 2.25          | .....     | 2.24          | .....     | 2.85          | .....     | 2.48          | .....     | 1.22          | .....     | 1.31          | .....     | 2.71          | .....     | 1.11          | .....     | 1.45          | .....     | 24.87         | .....     |  |
| Somerset.....          | 1.73          | -3.03     | 2.31          | -1.67     | 2.69          | -1.65     | 2.62          | -2.02     | 1.70          | -3.32     | 5.38          | +0.24     | 1.27          | -3.17     | 2.16          | -2.56     | 2.52          | -1.15     | 0.63          | -2.49     | 1.49          | -1.97     | 2.80          | -1.15     | 27.30         | -23.94    |  |
| Springdale.....        | 2.26          | -1.42     | 3.56          | +1.04     | 3.31          | -0.10     | 2.28          | -1.00     | 2.81          | -0.75     | 3.85          | -0.41     | 1.28          | -2.51     | 1.10          | -3.21     | 1.06          | -2.13     | 0.98          | -2.34     | 0.69          | -1.34     | 2.18          | -0.99     | 25.36         | -15.16    |  |
| Uniontown.....         | 1.48          | -2.37     | 2.80          | -0.33     | 4.12          | +0.16     | 1.79          | -1.96     | 3.06          | -1.01     | 6.27          | +1.36     | 2.51          | -2.55     | 3.10          | -1.73     | 2.89          | -0.29     | 0.87          | -2.34     | 0.88          | -2.23     | 2.18          | -1.42     | 31.95         | -14.71    |  |
| Unity Reservoir.....   | 2.12          | .....     | 3.51          | .....     | 3.82          | .....     | 2.60          | .....     | 5.15          | .....     | 4.32          | .....     | 1.22          | .....     | 1.00          | .....     | 2.88          | .....     | 1.06          | .....     | 1.21          | .....     | 2.60          | .....     | 31.49         | .....     |  |
| Vandergrift.....       | 1.47          | -1.59     | 3.89          | +1.05     | 2.51          | -0.36     | 1.42          | -1.38     | 3.27          | -0.02     | 5.63          | +1.01     | 1.17          | -3.23     | 1.02          | -3.04     | 1.27          | -1.81     | 0.70          | -2.44     | 0.78          | -1.98     | 1.77          | -1.06     | 24.90         | -14.55    |  |
| Warren.....            | 4.00          | +1.07     | 2.15          | -0.50     | 4.00          | +0.87     | 3.42          | -0.09     | 3.43          | -1.02     | 3.43          | -0.89     | 1.10          | -3.73     | 0.93          | -3.17     | 2.72          | -0.91     | 1.41          | -2.04     | 2.53          | -0.80     | 4.06          | +0.95     | 33.18         | -10.26    |  |
| Westford.....          | 4.01          | .....     | 2.37          | .....     | 2.55          | .....     | 3.17          | .....     | 1.87          | .....     | 4.37          | .....     | 3.19          | .....     | 1.62          | .....     | 4.50          | .....     | 3.33          | .....     | 2.70          | .....     | 1.01          | .....     | 34.69         | .....     |  |
| West Newton.....       | 1.35          | .....     | 2.03          | .....     | 3.34          | .....     | 1.66          | .....     | 3.54          | .....     | 4.08          | .....     | 0.94          | .....     | 0.96          | .....     | 2.99          | .....     | 0.73          | .....     | 0.84          | .....     | 2.18          | .....     | 24.64         | .....     |  |
| Zelienople.....        | 3.34          | .....     | 3.76          | .....     | 4.02          | .....     | 2.23          | .....     | 3.10          | .....     | 3.69          | .....     | 1.44          | .....     | 2.74          | .....     | 1.21          | .....     | 2.55          | .....     | 2.63          | .....     | 0.82          | .....     | 31.53         | .....     |  |
| POTOMAC BASIN          |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |  |
| Chambersburg.....      | 1.55          | -1.04     | 1.86          | -1.05     | 2.28          | -0.72     | 2.28          | -0.56     | 1.68          | -1.97     | 3.61          | -0.40     | 0.60          | -2.68     | 0.93          | -3.31     | 1.19          | -1.55     | 0.27          | -2.93     | 0.58          | -2.07     | 2.77          | +0.15     | 19.60         | -18.13    |  |
| Gettysburg.....        | 2.34          | -0.80     | 2.26          | -0.55     | 2.75          | -0.41     | 2.56          | -1.04     | 1.53          | -2.44     | 3.08          | -0.82     | 1.48          | -2.14     | 1.03          | -3.04     | 2.26          | -1.11     | 0.38          | -2.82     | 0.89          | -1.78     | 3.07          | -0.26     | 23.63         | -17.21    |  |
| Hyndman.....           | 0.70          | -2.90     | 1.59          | -1.15     | 1.87          | -1.48     | 2.70          | -0.87     | 1.28          | -1.92     | 3.19          | -2.13     | 0.76          | -2.35     | 1.93          | -2.35     | 1.68          | -1.48     | 0.85          | -2.01     | 0.92          | -0.62     | 3.13          | +0.24     | 20.60         | -19.00    |  |
| LAKE BASIN             |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |  |
| Erie.....              | 3.89          | +1.12     | 1.53          | +1.05     | 3.06          | +0.44     | 2.83          | +0.10     | 1.61          | -1.79     | 4.58          | +1.24     | 0.83          | -2.18     | 1.16          | -2.11     | 2.64          | -0.75     | 3.23          | -0.46     | 2.07          | -1.23     | 1.61          | -1.22     | 29.04         | -7.89     |  |
| Genesee.....           | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | 2.60          | .....     | 1.05          | .....     | 1.12          | .....     | 1.38          | .....     | .....         | .....     |  |

\* Monthly amount interpolated; annual amount partly interpolated.



Monthly and Annual Mean Temperatures for the Year 1930, with Departures from the Normal

| STATIONS.                 | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|---------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                           | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| <i>Atlantic Drainage.</i> |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Allentown.....            | 27.8        | .....     | 32.6        | .....     | 38.5        | .....     | 47.2        | .....     | 61.9        | .....     | 71.0        | .....     | 74.0        | .....     | 71.2        | .....     | 68.1        | .....     | 50.8        | .....     | 41.2        | .....     | 30.6        | .....     | 51.2        | .....     |
| Altoona.....              | 27.6        | +0.3      | 35.3        | +9.5      | 36.6        | -0.7      | 47.8        | -0.4      | 60.8        | +1.4      | 67.7        | +1.5      | 72.2        | +1.1      | 69.6        | 0.0       | 67.2        | +4.5      | 50.8        | -2.1      | 41.1        | +0.3      | 27.8        | -1.2      | 50.3        | +1.2      |
| Arendtsville.....         | 27.9        | .....     | 36.0        | .....     | 37.4        | .....     | 46.8        | .....     | 63.4        | .....     | 69.4        | .....     | 73.2        | .....     | 75.9        | .....     | 72.1        | .....     | 52.8        | .....     | 42.4        | .....     | 30.2        | .....     | 52.2        | .....     |
| Bellefonte.....           | 25.8        | .....     | 31.6        | .....     | 35.7        | .....     | 46.2        | .....     | 58.4        | .....     | 66.6        | .....     | 70.0        | .....     | 68.1        | .....     | 65.8        | .....     | 47.9        | .....     | 39.5        | .....     | 26.8        | .....     | 48.5        | .....     |
| Bethlehem.....            | 31.7        | +1.8      | 36.4        | +6.6      | 41.8        | +2.2      | 49.4        | -2.5      | 64.6        | +1.6      | 73.0        | +3.2      | 76.2        | +1.5      | 73.7        | 0.0       | 69.6        | +3.4      | 54.8        | -0.7      | 44.4        | +0.4      | 33.0        | -0.1      | 54.0        | +1.4      |
| Carlisle.....             | 28.0        | +0.1      | 35.6        | +6.2      | 41.2        | +3.7      | 49.9        | -2.3      | 65.8        | +4.4      | 73.0        | +2.1      | 77.2        | +2.4      | 74.3        | +1.6      | 71.4        | +6.7      | 52.8        | +0.6      | 43.2        | +2.5      | 30.4        | -0.9      | 53.6        | +2.3      |
| Catawissa.....            | 27.8        | -0.3      | 33.6        | +4.5      | 38.0        | +0.4      | 47.8        | -3.5      | 61.5        | +0.1      | 72.4        | +4.7      | 73.4        | +0.7      | 70.9        | +0.6      | 69.4        | +5.9      | 53.0        | -0.6      | 44.4        | +2.0      | 30.9        | -0.7      | 51.9        | +1.1      |
| Center Hall.....          | 29.0        | +0.3      | 36.8        | +6.0      | 40.8        | +2.4      | 49.0        | -0.8      | 62.3        | +1.1      | 69.8        | +0.4      | 76.2        | +1.5      | 69.1        | -3.1      | 71.2        | +5.3      | 52.8        | 0.0       | 44.8        | +3.4      | 30.8        | -2.4      | 52.7        | +1.2      |
| Chambersburg.....         | 29.0        | +0.3      | 36.8        | +6.0      | 40.8        | +2.4      | 49.0        | -0.8      | 62.3        | +1.1      | 69.8        | +0.4      | 76.2        | +1.5      | 69.1        | -3.1      | 71.2        | +5.3      | 52.8        | 0.0       | 44.8        | +3.4      | 30.8        | -2.4      | 52.7        | +1.2      |
| Clearfield.....           | 28.3        | +1.4      | 33.8        | +6.3      | 39.7        | +0.3      | 47.8        | -3.0      | 62.7        | +1.0      | 72.1        | +2.2      | 75.3        | +0.6      | 72.0        | +2.3      | 70.2        | +4.1      | 52.6        | -1.7      | 43.3        | +0.4      | 32.1        | -0.9      | 52.8        | +0.9      |
| Coatesville.....          | 29.4        | -1.0      | 35.8        | +5.9      | 39.7        | +0.3      | 47.8        | -2.9      | 61.0        | +2.0      | 69.4        | +0.3      | 73.2        | +0.7      | 70.8        | +0.2      | 68.6        | +4.5      | 51.0        | -2.0      | 41.6        | +0.6      | 29.4        | -0.5      | 51.0        | +0.3      |
| Colebrook.....            | 27.3        | +0.8      | 34.0        | +4.2      | 38.3        | -0.6      | 45.7        | -1.4      | 57.3        | -1.4      | 65.0        | -1.2      | 68.3        | -1.3      | 66.3        | -1.6      | 63.8        | +2.4      | 48.6        | -1.4      | 39.8        | +0.6      | 28.2        | -0.9      | 48.1        | +0.2      |
| Emporium.....             | 26.8        | +1.0      | 32.4        | +7.7      | 34.4        | -0.6      | 45.7        | -1.4      | 57.3        | -1.4      | 65.0        | -1.2      | 68.3        | -1.3      | 66.3        | -1.6      | 63.8        | +2.4      | 48.6        | -1.4      | 39.8        | +0.6      | 28.2        | -0.9      | 48.1        | +0.2      |
| Ephrata.....              | 30.0        | +0.7      | 36.2        | +8.1      | 41.2        | +2.2      | 49.2        | -0.5      | 59.2        | +2.6      | 68.2        | +4.0      | 70.3        | +1.8      | 69.2        | +2.9      | 66.0        | +6.7      | 50.4        | +4.2      | 39.8        | +2.7      | 26.6        | -1.1      | 49.0        | +3.0      |
| Freeland.....             | 27.0        | +2.8      | 31.8        | +7.5      | 35.9        | +3.5      | 44.2        | -1.9      | 63.9        | +2.9      | .....       | .....     | 75.9        | +2.3      | 72.3        | .....     | 71.6        | +6.7      | 54.4        | -0.5      | 44.6        | +2.0      | 33.5        | -1.2      | .....       | .....     |
| George School.....        | 32.0        | +1.2      | 36.7        | +7.0      | 41.2        | +2.0      | 48.2        | -0.4      | 64.8        | +3.5      | 72.2        | +2.6      | 77.4        | +3.4      | 74.0        | +2.3      | 72.4        | +7.4      | 58.6        | +1.4      | 44.2        | +2.9      | 32.2        | +0.5      | 54.3        | +3.0      |
| Gettysburg.....           | 30.6        | +1.6      | 38.2        | +7.9      | 42.0        | +2.8      | 50.0        | -0.4      | 64.8        | +3.5      | 72.2        | +2.6      | 77.4        | +3.4      | 74.0        | +2.3      | 72.4        | +7.4      | 58.6        | +1.4      | 44.2        | +2.9      | 32.2        | +0.5      | 54.3        | +3.0      |
| Gordon.....               | 27.8        | +1.4      | 33.0        | +7.7      | 37.8        | +1.9      | 46.8        | -1.1      | 60.2        | +1.7      | 67.6        | +2.4      | 71.4        | +1.2      | 69.1        | +0.9      | 66.1        | +4.3      | 48.6        | -2.1      | 40.9        | +1.9      | 28.6        | +0.1      | 49.8        | +1.7      |
| Gouldsboro.....           | 23.9        | .....     | 27.4        | .....     | 31.4        | .....     | 41.4        | .....     | 54.6        | .....     | 62.9        | .....     | 65.4        | .....     | 63.3        | .....     | 60.2        | .....     | 44.6        | .....     | 36.6        | .....     | 23.4        | .....     | 44.6        | .....     |
| Hamburg.....              | 28.5        | -0.2      | 33.4        | +4.6      | 39.6        | +1.2      | 48.0        | -2.4      | 61.0        | -0.7      | 68.6        | -0.9      | 73.8        | -0.1      | 71.2        | -0.5      | 68.0        | +2.5      | 51.2        | -2.7      | 42.3        | +0.1      | 30.5        | -1.5      | 51.3        | -0.1      |
| Hanover.....              | 33.1        | +0.2      | 39.6        | +7.9      | 44.0        | +2.4      | 51.6        | -1.4      | 65.6        | +1.7      | 72.9        | +2.3      | 78.2        | +2.8      | 75.6        | +2.0      | 74.1        | +6.9      | 55.2        | -0.9      | 45.8        | +1.6      | 33.4        | -0.4      | 55.8        | +2.1      |
| Harrisburg.....           | 30.2        | +1.2      | 37.0        | +6.8      | 40.8        | +1.9      | 49.4        | -1.5      | 63.8        | +2.0      | 72.8        | +2.5      | 77.0        | +2.2      | 74.0        | +1.4      | 71.8        | +6.0      | 53.9        | -0.9      | 44.6        | +1.8      | 32.2        | -0.5      | 54.0        | +1.9      |
| Hawley.....               | 26.2        | .....     | 30.4        | .....     | 35.8        | .....     | 44.8        | .....     | 58.0        | .....     | 67.4        | .....     | 69.3        | .....     | 67.8        | .....     | 63.6        | .....     | 47.7        | .....     | 40.4        | .....     | 27.8        | .....     | 48.3        | .....     |
| Holtwood.....             | 31.8        | .....     | 36.5        | .....     | 42.9        | .....     | 50.4        | .....     | 67.0        | .....     | 75.0        | .....     | 79.8        | .....     | 76.6        | .....     | 72.2        | .....     | 57.4        | .....     | 46.0        | .....     | 33.4        | .....     | 56.1        | .....     |
| Huntingdon.....           | 29.0        | +0.4      | 36.2        | +7.8      | 38.4        | +0.1      | 48.7        | -0.9      | 60.4        | -0.3      | 68.2        | 0.0       | 72.4        | +0.2      | 70.6        | -0.1      | 68.7        | +4.4      | 51.0        | -1.5      | 41.6        | +0.1      | 29.4        | -2.1      | 51.2        | +0.7      |
| Hyndman.....              | 32.4        | +2.7      | 39.5        | +9.4      | 41.3        | +1.4      | 52.0        | +1.1      | 63.8        | +3.0      | 70.4        | +3.0      | 75.6        | +3.6      | 71.0        | +1.0      | 70.0        | +5.5      | 51.5        | -1.8      | 42.2        | +0.2      | 30.0        | -2.1      | 53.3        | +2.9      |
| Lancaster.....            | 28.0        | -1.6      | 35.0        | +5.2      | 41.2        | +3.2      | 48.4        | -2.4      | 62.3        | +3.0      | 71.2        | +1.1      | 75.3        | +1.9      | 71.4        | -1.3      | 70.4        | +5.9      | 51.4        | -2.0      | 41.4        | -1.7      | 29.1        | -4.3      | 52.1        | +0.5      |
| Lawrenceville.....        | 25.0        | +0.4      | 28.6        | +5.6      | 32.6        | -1.4      | 43.6        | -2.2      | 56.2        | -1.3      | 66.0        | -0.8      | 70.2        | 0.0       | 68.2        | -0.1      | 65.0        | +3.7      | 49.4        | -1.1      | 40.7        | +2.0      | 28.6        | +1.2      | 47.8        | +0.6      |
| Lebanon.....              | 30.5        | +1.5      | 36.8        | +8.1      | 42.0        | +3.4      | 49.4        | -1.1      | 64.4        | +3.4      | 72.1        | -2.8      | 76.8        | +3.2      | 74.4        | +2.4      | 71.5        | +6.3      | 54.2        | +1.0      | 44.4        | +2.2      | 32.4        | +0.5      | 54.1        | +2.8      |
| Lewisburg.....            | 28.1        | +2.7      | 34.4        | +8.6      | 39.6        | +4.3      | 48.6        | +0.4      | 62.5        | +4.0      | 71.2        | +1.0      | 75.2        | +3.7      | 73.2        | +4.3      | 69.6        | +7.6      | 52.4        | +2.2      | 43.6        | +4.5      | 30.2        | +1.2      | 52.2        | +3.8      |
| Lock Haven.....           | 30.7        | +3.3      | 36.0        | +8.9      | 40.6        | +2.8      | 51.0        | +0.7      | 64.0        | +2.1      | 71.1        | +1.7      | 75.4        | +2.1      | 72.8        | +1.5      | 69.0        | +4.3      | 52.8        | -0.5      | 43.6        | +1.7      | 31.6        | +0.5      | 53.2        | +2.4      |
| Lykens.....               | 29.0        | +1.8      | 35.6        | +5.5      | 39.6        | +0.1      | 48.6        | -2.1      | 62.2        | +3.1      | 69.0        | +0.8      | 73.0        | +1.2      | 70.5        | +0.3      | 68.2        | +4.0      | 51.0        | -2.4      | 43.1        | +2.1      | 29.8        | -0.9      | 51.6        | +1.1      |
| Marcus Hook.....          | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     |
| Mauch Chunk.....          | 27.2        | -0.2      | 32.4        | +5.4      | 37.6        | +0.8      | 46.6        | -2.2      | 60.3        | +0.2      | 69.8        | +2.0      | 73.8        | +1.5      | 71.6        | +1.3      | 68.4        | +4.4      | 51.8        | -0.5      | 42.4        | +1.8      | 30.8        | +0.3      | 51.1        | +1.3      |
| Mifflintown.....          | 27.9        | +0.3      | 34.8        | +8.1      | 39.4        | +1.4      | 48.6        | -1.2      | 61.8        | +1.1      | 70.2        | +2.4      | 74.2        | +1.5      | 72.4        | +1.8      | 68.8        | +6.0      | 51.5        | -0.9      | 42.2        | +1.6      | 30.2        | 0.0       | 51.9        | +1.8      |
| Montrose.....             | 25.2        | +2.7      | 28.1        | +7.8      | 32.8        | +1.7      | 42.5        | -1.6      | 56.4        | +1.4      | 64.8        | +2.1      | 66.7        | -1.5      | 67.2        | +0.3      | 63.0        | +2.9      | 47.0        | -2.0      | 37.4        | +0.5      | 25.0        | -0.6      | 46.3        | +1.1      |
| Mount Pocono.....         | 26.6        | +3.7      | 26.6        | +5.9      | 29.1        | -2.9      | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     |
| Muncy Valley.....         | 25.3        | +0.8      | 29.8        | +4.1      | 36.2        | +0.2      | 45.4        | -2.8      | 56.2        | -1.0      | 65.4        | -0.3      | 69.8        | +0.1      | 68.4        | +0.7      | 65.0        | +3.6      | 49.0        | -1.6      | 40.0        | +0.8      | 27.2        | -0.5      | 48.1        | +0.3      |
| Narberth.....             | 31.0        | .....     | 36.0        | .....     | 39.9        | .....     | 47.5        | .....     | 62.8        | .....     | 70.7        | .....     | 74.4        | .....     | 71.0        | .....     | 69.1        | +3.7      | 52.6        | -1.4      | 43.1        | +1.6      | 31.1        | -0.7      | 52.0        | +1.0      |
| Neshaminy Falls.....      | 29.7        | +2.1      | 34.1        | +5.0      | 39.2        | -0.3      | 47.0        | -3.1      | 62.4        | +3.1      | 70.7        | +1.5      | 74.4        | +1.3      | 71.0        | 0.0       | 69.1        | +3.7      | 52.6        | -1.4      | 43.1        | +1.6      | 31.1        | -0.7      | 52.0        | +1.0      |
| Palmerton.....            | 26.7        | .....     | 31.8        | .....     | 37.2        | .....     | 46.2        | .....     | 61.0        | .....     | 70.2        | .....     | 72.4        | .....     | 70.6        | .....     | 68.4        | +4.4      | 51.8        | -0.5      | 42.4        | +1.8      | 30.8        | +0.3      | 51.1        | +1.3      |
| Philadelphia.....         | 35.6        | +3.0      | 40.1        | +6.2      | 43.7        | +2.9      | 51.2        | -0.9      | 66.4        | +3.5      | 75.2        | +3.8      | 78.0        | +1.8      | 75.7        | +0.9      | 74.1        | +6.1      | 56.7        | -1.1      | 47.6        | +1.9      | 36.6        | +0.3      | 56.7        | +2.3      |
| Philadelphia Gtn.....     | 34.8        | .....     | 39.4        | .....     | 43.1        | .....     | 51.0        | .....     | 66.5        | .....     | 75.4        | .....     | 78.2        | .....     | 75.6        | .....     | 73.8        | .....     | 56.8        | .....     | 46.4        | .....     | 36.0        | .....     | 56.4        | .....     |
| Phila-Navy Yard.....      | 33.6        | +2.3      | 38.2        | +4.9      | 42.1        | 0.0       | 49.6        | -1.9      | 64.8        | +3.1      | 73.6        | +1.8      | 76.4        | +0.7      | 73.6        | -0.4      | 72.4        | +4.4      | 55.1        | -2.3      | 45.6        | +0.2      | 34.6        | -0.4      | 55.0        | +1.0      |
| Phoenixville.....         | 32.4        | +2.6      | 37.3        | +5.5      | 42.7        | +2.1      | 51.2        | -1.0      | 65.4        | +4.4      | 74.5        | +3.0      | 77.6        | +3.1      | 74.1        | +1.4      | 72.7        | +6.3      | 55.6        | -1.2      | 44.5        | +1.9      | 34.2        | +0.9      | 55.2        | +2.9      |
| Quakertown.....           | 28.6        | +1.6      | 33.4        | +5.2      | 39.1        | +2.8      | 47.2        | -1.2      | 62.2        | +2.6      | 70.4        | +2.2      | 73.5        | +1.0      | 70.4        | +3.2      | 68.6        | +5.0      | 51.0        | -1.1      | 44.2        | +3.2      | 31.3        | +0.2      | 51.7        | +2.1      |
| Reading.....              | 31.2        | +1.8      | 37.6        | +8.8      | 41.1        | +1.1      | 49.4        | -0.9      | 63.9        | +1.4      | 73.6        | +1.1      | 76.8        | +1.1      | 73.8        | +1.4      | 71.4        | +5.1      | 54.0        | -0.7      | 44.6        | +2.1      | 33.4        | +0.2      | 54.2        | +2.2      |
| Seranton.....             | 28.8        | +2.2      | 32.4        | +5.1      | 36.6        | +0.9      | 46.4        | -1.7      | 60.1        | +0.7      | 69.8        | +2.0      | 71.2        | -0.5      | 70.2        | +0.4      | 66.4        | +3.5      | 50.6        | -1.2      | 43.0        | +2.5      | 29.9        | -0.8      | 50.4        | +1.0      |
| Sellersville.....         | 28.0        | -0.9      | 35.2        | +8.1      | 40.1        | +1.9      | 48.5        | -1.4      | 62.2        | +1.1      | 70.8        | +1.8      | 74.8        | +1.3      | 72.6        | +1.1      | 69.6        | +5.2      | 52.0        | -0.6      | 41.3        | -0.2      | 30.4        | -1.0      | 52.1        | +1.3      |
| Shawmont.....             | 32.7        | .....     | 37.2        | .....     | 42.6        | .....     | 50.0        | .....     | 65.2        | .....     | 74.0        | .....     | 77.4        | .....     | 73.8        | .....     | 72.2        | .....     | 53.6        | .....     | 44.7        | .....     | 33.8        | .....     | 54.8        | .....     |



## COOPERATIVE AND RAINFALL OBSERVERS

| Stations           | Observers                 | Stations              | Observers                | Stations                 | Observers                |
|--------------------|---------------------------|-----------------------|--------------------------|--------------------------|--------------------------|
| Allentown.....     | John A. Frick.            | Girardville.....      | Girard Water Co.         | Palmerton.....           | New Jersey Zinc Co.      |
| Altoona.....       | F. E. Rooney.             | Gordon.....           | Capt. J. G. Johnson.     | Parkers Landing.....     | Henry Turk.              |
| Ansonia.....       | Paul H. Mulford.          | Gouldsboro.....       | Gustav Holtz.            | Paupack.....             | Penn. Power & Light Co.  |
| Arendtsville.....  | Dr. S. W. Frost.          | Graterford.....       | C. K. Kulp.              | Penn Line.....           | Retta Crumb.             |
| Bakers Summit..... | M. Snyder.                | Greensburg.....       | Westmoreland Water Co.   | Philadelphia.....        | U. S. Weather Bureau.    |
| Beaver Dam.....    | F. H. McCullough.         | Greenville.....       | C. P. Clarke.            | Philadelphia-Gtn.....    | Julius Bernstein.        |
| Beaver Falls.....  | W. Edward Eakin.          | Grove City.....       | Prof. H. W. Harmon.      | Philadelphia.....        | Commandant, Navy         |
| Bethlehem.....     | Lehigh University.        | Hamburg.....          | State Sanatorium.        | Navy Yard.....           | Yard.                    |
| Bloresville.....   | A. G. Mountz.             | Hanover.....          | Thomas Y. Cooper.        | Phila. Point Breeze..... | Atlantic Refining Co.    |
| Bellefonte.....    | U. S. Weather Bureau.     | Harrisburg.....       | U. S. Weather Bureau.    | Phoenixville.....        | N. Springfield Water Co. |
| Bradford.....      | Supt. Timber Pres. Plant. | Hawley.....           | Mrs. Della M. Pennell.   | Pine Grove.....          | East Penn Electric Co.   |
| Brookville.....    | John Fawcett.             | Herrs Island Dam..... | U. S. Engineer.          | Pittsburgh.....          | U. S. Weather Bureau.    |
| Butler.....        | The Butler Eagle.         | Holisterville.....    | Penn. P. & L. Co.        | Pleasant Mount.....      | G. W. Buller.            |
| Carlisle.....      | Clarence E. Miller.       | Holtwood.....         | H. W. Lowy, C. E.        | Pottstown.....           | J. Ernest Spare.         |
| Catawissa.....     | W. L. Gearhart.           | Huntingdon.....       | Prof. Paul R. Yoder.     | Pottsville.....          | John H. Strauch.         |
| Center Hall.....   | S. W. Smith.              | Hyndman.....          | Horace A. Sheavly.       | Quakertown.....          | John E. Benner.          |
| Chambersburg.....  | Wm. B. Spear.             | Ingram.....           | W. R. Gormly.            | Reading.....             | U. S. Weather Bureau.    |
| Claysville.....    | J. L. Melvin.             | Irwin.....            | W. F. Gallagher.         | Renovo.....              | J. H. Baird.             |
| Clearfield.....    | E. W. Hess, C. E.         | Johnstown.....        | E. C. Lorentz.           | Ridgway.....             | West Penn. Power Co.     |
| Cloe.....          | Frank McElwain.           | Keglar.....           | I. A. Knupp.             | Saltsburg.....           | Thomas M. Duncan.        |
| Clymer.....        | L. Frendberg.             | Kylertown.....        | Bur. Plant Industry.     | Scranton.....            | U. S. Weather Bureau.    |
| Coatesville.....   | Howard L. Pyle.           | Lakeville.....        | Penn. P. & L. Co.        | Selinsgrove.....         | Dr. George E. Fisher.    |
| Colebrook.....     | William A. Rorer.         | Lancaster.....        | Supt. Water Works.       | Sharon.....              | H. H. Gerber.            |
| Confluence.....    | Grant Pyle.               | Lansford.....         | Lehigh Coal & Nav. Co.   | Shawmont.....            | Winfield S. Guiles.      |
| Conshohocken.....  | Russell C. Erb.           | Lawrenceville.....    | C. P. Darling.           | Snow Hill.....           | G. L. Dormy.             |
| Coraopolis.....    | U. S. Engineer.           | Lebanon.....          | S. B. Benzing.           | Somerset.....            | D. L. Grove.             |
| Corry.....         | Assd. Gas & Electric Co.  | Lewisburg.....        | Prof. Wm. G. Owens.      | Springdale.....          | U. S. Engineer.          |
| Coudersport.....   | West Penn Power Co.       | Linesville.....       | Marian Kanaur.           | State College.....       | C. A. Kern.              |
| Creskide.....      | John E. Lewis.            | Lloyd.....            | M. L. Fish.              | Stroudsburg.....         | State Normal School.     |
| Cresson.....       | W. P. Linnan.             | Lock Haven.....       | Joseph A. Beaver.        | Sunbury.....             | Carl E. Stahl.           |
| Derry.....         | Ted R. Wineman.           | Lock No. 4.....       | U. S. Engineer.          | Towanda.....             | Hiram E. Bull, C. E.     |
| Donora.....        | Donora Zinc Works.        | Lycippus.....         | Westmoreland Water Co.   | Uniontown.....           | Wm. W. Marsteller.       |
| Doylestown.....    | Geo. Hart.                | Lykens.....           | Susquehanna Coal Co.     | Unity Reservoir.....     | Westmoreland Water Co.   |
| Driftwood.....     | Walter Leach.             | Marcus Hook.....      | Sun Oil Co.              | Vandergrift.....         | H. R. Belding.           |
| Ebensburg.....     | D. H. Jones.              | Mauch Chunk.....      | R. K. Wintemute.         | Warren.....              | Mrs. Anna Simpson.       |
| Elk Lick.....      | J. S. Stevanus.           | Meadville.....        | Assd. Gas & Electric Co. | Weikert.....             | David Libby.             |
| Emporium.....      | T. B. Lloyd.              | Meadville.....        | Wellington Smith.        | Wellsboro.....           | George W. Hill.          |
| Ephrata.....       | Ira J. Keath.             | Midlinton.....        | Silas Jagger.            | West Chester.....        | Joseph W. Belt.          |
| Erie.....          | U. S. Weather Bureau.     | Montrose.....         | Morris Run Mining Co.    | Westford.....            | C. C. Collins.           |
| Falls Creek.....   | J. C. Snell.              | Mt. Lebanon.....      | Fred Hoffman.            | Westgrove.....           | Conard-Pyle Co.          |
| Forest City.....   | L. L. Whipple.            | Mount Pocono.....     | Cecil J. Hoskinson.      | West Newton.....         | A. B. Adams.             |
| Franklin.....      | R. A. Fergus.             | Muncy Valley.....     | H. O. Hacker.            | Wilkes-Barre.....        | Milton Wentz.            |
| Freeland.....      | Theodore Reichmann.       | Narberth.....         | Charles Decker.          | Williamsport.....        | Veronica E. April.       |
| Freeport.....      | U. S. Engineer.           | Neshaminy Falls.....  | N. Springfield Water Co. | York.....                | C. L. Bott.              |
| Genesee.....       | Frank Johnson.            | New Castle.....       | New Castle Water Co.     | York Haven.....          | York Haven Water Co.     |
| George School..... | N. W. Swayne.             | Newell.....           | General Chemical Co.     | Zelienople.....          | Francis Gray.            |
| Gettysburg.....    | Dr. Henry Stewart.        | New Park.....         | C. J. Allen.             |                          |                          |

## WEATHER BUREAU AND COOPERATIVE STATIONS, 1930



## KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

JANUARY, 1931.

No. 1

## GENERAL SUMMARY.

The temperature was above the normal about two-thirds of the time in January. The cold periods were of short duration, and there were no cold waves. Frost did not penetrate the soil deeply, and considerable plowing was done during the month. The precipitation averaged less than half of the January normal. Only a few counties received as much as two inches for the month. The snowfall was generally light or moderate, and the fields were bare of snow cover a large part of the time. The conditions were mostly favorable for out-door work, which made fair progress. Winter grains were the poorest for many years, and were generally reported as being "poor" to "fair". Most sections of the State were free from severe or damaging storms, but a local storm of great intensity occurred at Uniontown and vicinity on the 5th. Some of the newspapers reported it as being a tornado, but trained local observers said that there was no funnel cloud, and that the winds were all straight line in effect. The winds did considerable damage over a path about two miles in width, which is several times wider than the path of a large tornado. It was of a type that is generally known in Pennsylvania as a "mountain storm". Wind instruments of the U. S. Army at Burgess Field recorded an extreme velocity of 102 miles per hour for two or three minutes, and the wind blew at a velocity of 80 to 90 miles per hour from about 11:30 a. m. until 12:30 p. m. Many buildings were unroofed, and a few were completely wrecked. Many miles of telephone, telegraph, and electric light wires were torn down, and live wires did damage in some places. Plate glass in Uniontown suffered severely. The total property loss was conservatively estimated at upwards of \$100,000. There was no loss of life, but many persons received minor injuries.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 89 stations, was 30.0°, which is 2.1° above the January normal. The highest monthly mean was 36.2°, at Philadelphia-Weather Bureau and Marcus Hook, and the lowest 21.0°, at Gouldsboro. The highest temperature recorded during the month was 65°, at Hyndman on the 25th, while the lowest, -12°, occurred at Gouldsboro on the 23d. The greatest daily range of temperature was 46°, at Brookville on the 2d.

## PRECIPITATION.

The average precipitation for the State, as deduced from the observations taken at 143 well-distributed stations, was 1.46 inches; a deficiency of 1.79 inches as compared with the normal. Monthly totals ranged from a maximum of 2.66 inches at Pleasant Mount to a minimum of 0.49 inch at Newell and McKeesport. The greatest amount recorded in any 24 consecutive hours was 1.50 inches at Stroudsburg on the 5-6th. Snowfall averaged 4.4 inches, as compared with a January normal of 11.7 inches. The greatest monthly amount was 19.5 inches at Pleasant Mount. The greatest 24-hour snowfall was 10.0 inches at Mount Pocono on the 11-12th.

## SUNSHINE, HUMIDITY AND WINDS

| Stations        | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |         |           |
|-----------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|---------|-----------|
|                 | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |         |           |
|                 |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | Highest | Direction |
| Erie.....       | 106.1                   | 295.3                    | 36                     | 81               | 75       | 76      | 9,854                    | 13.2                        | 33      | sw.       |
| Harrisburg....  | 154.4                   | 300.9                    | 51                     | 67               | 56       | 61      | 4,795                    | 6.4                         | 26      | w.        |
| Philadelphia... | 186.5                   | 300.9                    | 62                     | 60               | 51       | 55      | 8,903                    | 12.0                        | 40      | nw.       |
| Pittsburgh..... | 160.9                   | 298.2                    | 54                     | 76               | 63       | 66      | 7,682                    | 10.3                        | 42      | nw.       |
| Reading.....    | 167.3                   | 300.9                    | 56                     | 73               | 58       | 64      | 4,297                    | 5.8                         | 28      | e.        |
| Scranton.....   | 125.4                   | 298.2                    | 42                     | 84               | 67       | 68      | 4,558                    | 6.1                         | 25      | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

## COMPARATIVE DATA FOR JANUARY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                           |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|---------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | Of inches or more per day |
| 1888..... | 23.2        | 61      | -19    | 4.19          | 6.75     | 2.12  | 5           | 11            | 15     | 13                        |
| 1889..... | 29.4        | 68      | -5     | 3.54          | 7.02     | 1.82  | 9           | 13            | 9      | 10                        |
| 1890..... | 37.5        | 77      | -2     | 3.04          | 6.87     | 1.47  | 7           | 8             | 16     | 14                        |
| 1891..... | 30.5        | 64      | -4     | 3.64          | 8.74     | 1.22  | 6           | 10            | 15     | 12                        |
| 1892..... | 26.2        | 66      | -28    | 4.77          | 8.46     | 2.08  | 8           | 8             | 15     | 12                        |
| 1893..... | 19.0        | 57      | -25    | 2.85          | 4.82     | 1.65  | 7           | 10            | 14     | 12                        |
| 1894..... | 32.8        | 65      | -9     | 2.29          | 4.71     | 0.83  | 9           | 9             | 13     | 10                        |
| 1895..... | 24.2        | 58      | -17    | 4.17          | 6.36     | 1.83  | 7           | 10            | 14     | 13                        |
| 1896..... | 27.6        | 60      | -15    | 1.43          | 2.40     | 0.52  | 8           | 9             | 14     | 6                         |
| 1897..... | 25.6        | 74      | -25    | 2.15          | 3.54     | 0.87  | 8           | 8             | 15     | 10                        |
| 1898..... | 30.7        | 67      | -16    | 4.25          | 7.57     | 1.32  | 6           | 8             | 17     | 13                        |
| 1899..... | 26.6        | 66      | -21    | 3.05          | 4.84     | 0.82  | 12          | 8             | 11     | 10                        |
| 1900..... | 29.8        | 63      | -8     | 2.64          | 4.37     | 1.36  | 8           | 9             | 14     | 10                        |
| 1901..... | 29.1        | 59      | -10    | 2.22          | 4.41     | 0.74  | 8           | 8             | 15     | 11                        |
| 1902..... | 25.6        | 58      | -13    | 2.80          | 5.15     | 1.00  | 8           | 9             | 14     | 9                         |
| 1903..... | 26.9        | 68      | -13    | 3.31          | 5.09     | 1.49  | 6           | 8             | 17     | 11                        |
| 1904..... | 20.0        | 66      | -42    | 3.55          | 5.82     | 2.08  | 10          | 6             | 15     | 12                        |
| 1905..... | 23.8        | 69      | -21    | 3.70          | 7.55     | 1.72  | 8           | 8             | 15     | 12                        |
| 1906..... | 35.0        | 85      | -4     | 2.53          | 5.28     | 0.76  | 10          | 8             | 13     | 11                        |
| 1907..... | 30.0        | 75      | -23    | 4.36          | 9.69     | 2.14  | 6           | 7             | 18     | 15                        |
| 1908..... | 28.4        | 59      | -18    | 2.68          | 5.33     | 1.46  | 12          | 8             | 11     | 9                         |
| 1909..... | 31.2        | 72      | -19    | 2.92          | 4.25     | 1.58  | 9           | 6             | 16     | 13                        |
| 1910..... | 27.2        | 56      | -22    | 5.55          | 8.91     | 3.27  | 7           | 5             | 19     | 14                        |
| 1911..... | 31.6        | 70      | -5     | 3.54          | 6.38     | 1.25  | 8           | 5             | 18     | 13                        |
| 1912..... | 18.6        | 57      | -35    | 1.92          | 3.72     | 0.47  | 8           | 7             | 16     | 12                        |
| 1913..... | 36.5        | 65      | 3      | 4.95          | 8.90     | 1.51  | 9           | 6             | 16     | 16                        |
| 1914..... | 30.2        | 81      | -27    | 3.37          | 5.77     | 1.40  | 7           | 7             | 17     | 11                        |
| 1915..... | 28.3        | 62      | -26    | 5.56          | 9.69     | 2.43  | 10          | 6             | 15     | 13                        |
| 1916..... | 34.2        | 76      | -12    | 2.42          | 5.33     | 0.20  | 9           | 8             | 14     | 12                        |
| 1917..... | 27.9        | 69      | -18    | 3.60          | 6.69     | 1.06  | 11          | 8             | 12     | 13                        |
| 1918..... | 16.2        | 57      | -29    | 3.51          | 7.28     | 1.20  | 10          | 8             | 13     | 12                        |
| 1919..... | 32.0        | 64      | -15    | 2.53          | 2.10     | 0.34  | 14          | 8             | 9      | 8                         |
| 1920..... | 20.9        | 59      | -23    | 2.47          | 5.35     | 1.00  | 9           | 8             | 14     | 10                        |
| 1921..... | 31.0        | 63      | -13    | 2.58          | 5.23     | 0.89  | 12          | 7             | 12     | 10                        |
| 1922..... | 25.0        | 62      | -19    | 2.26          | 4.46     | 1.15  | 14          | 7             | 10     | 8                         |
| 1923..... | 29.1        | 62      | -17    | 4.26          | 7.74     | 1.91  | 6           | 6             | 19     | 14                        |
| 1924..... | 28.1        | 65      | -13    | 4.34          | 6.29     | 1.70  | 11          | 8             | 13     | 10                        |
| 1925..... | 25.2        | 55      | -29    | 3.49          | 6.68     | 1.07  | 11          | 7             | 13     | 11                        |
| 1926..... | 27.8        | 66      | -19    | 2.80          | 4.85     | 1.12  | 9           | 9             | 13     | 11                        |
| 1927..... | 27.4        | 61      | -24    | 2.90          | 8.28     | 0.76  | 9           | 6             | 16     | 13                        |
| 1928..... | 29.8        | 65      | -23    | 2.08          | 4.48     | 0.78  | 12          | 8             | 11     | 9                         |
| 1929..... | 27.3        | 73      | -20    | 3.37          | 6.86     | 1.12  | 9           | 9             | 13     | 12                        |
| 1930..... | 29.2        | 72      | -24    | 2.25          | 4.74     | 0.70  | 8           | 8             | 15     | 12                        |
| 1931..... | 30.0        | 65      | -12    | 1.46          | 2.66     | 0.49  | 12          | 9             | 10     | 7                         |

## RIVER CONDITIONS

| Stations         | Rivers            | Mean stage | Highest stage | Date  | Lowest stage | Date  | Flood stage |
|------------------|-------------------|------------|---------------|-------|--------------|-------|-------------|
| Port Jervis..... | Delaware.....     | 2.3        | 3.1           | 9     | 1.7          | 3     | 18          |
| Phillipsburg.... | Delaware.....     | 1.4        | 2.4           | 7     | 0.6          | 5     | 22          |
| Mauch Chunk....  | Lehigh.....       | 1.0        | 1.3           | 6     | 0.8          | 1     | 17          |
| Wilkes-Barre.... | Susquehanna.....  | 1.7        | 2.1           | 12    | 1.3          | 3     | 20          |
| Williamsport.... | Susquehanna.....  | .....      | 0.4           | 31    | .....        | ..... | 20          |
| Harrisburg.....  | Susquehanna.....  | 3.2        | 3.6           | 30    | .....        | ..... | 17          |
| Greensboro.....  | Monongahela.....  | 12.8       | 15.1          | 29    | 11.3         | 19    | 30          |
| West Newton....  | Youghiogheny..... | .....      | .....         | ..... | .....        | ..... | 20          |
| Lock No. 4.....  | Monongahela.....  | 13.6       | 16.0          | 30    | 12.5         | 4     | 31          |
| Pittsburgh.....  | Ohio.....         | 10.5       | 12.2          | 29    | 9.8          | 1     | 25          |
| Beaver Dam.....  | Ohio.....         | 7.8        | 9.0           | 30    | 7.3          | 22    | 30          |



## Climatological Data for January, 1931

| Stations              | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                 |                 |                 | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|-----------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                       |                   |                 |                         | Mean                         | Departure from the normal | Highest         | Date            | Lowest          | Date            | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage.    |                   |                 |                         |                              |                           |                 |                 |                 |                 |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown.....        | Lehigh.....       | 254             | 19                      | 29.3                         | .....                     | 54              | 27              | 12              | 16              | 35                       | 2.04  | -1.47                     | 1.08                 | 1.5                       | 5                            | 20    | 10                           | 1         | sw.        | John A. Frick.              |
| Altoona.....          | Blair.....        | 1,615           | 44                      | 31.0                         | +4.0                      | 58              | 25              | 4               | 22              | 35                       | 1.45  | -1.12                     | 0.61                 | 2.5                       | 8                            | 22    | 6                            | 3         | w.         | F. E. Rooney.               |
| Arendtsville.....     | Adams.....        | 700             | 9                       | 32.0                         | .....                     | 58              | 27              | 9               | 16              | 37                       | 1.63  | .....                     | 0.90                 | 3.3                       | 4                            | 10    | 15                           | 6         | w.         | Dr. S. W. Frost.            |
| Bellefonte.....       | Center.....       | 1,050           | 23                      | 28.0                         | +0.3                      | 51              | 25              | 1               | 3               | 42                       | 1.01  | -1.76                     | 0.46                 | 4.6                       | 9                            | 4     | 12                           | 15        | sw.        | U. S. Weather Bureau.       |
| Bethlehem.....        | Northampton.....  | 364             | 46                      | 32.0                         | +2.0                      | 54              | 27              | 12              | 15              | 26                       | 1.81  | -1.70                     | 0.83                 | 1.8                       | 5                            | 22    | 1                            | 8         | w.         | Lehigh University.          |
| Carlisle.....         | Cumberland.....   | 467             | 65                      | 31.8                         | +1.3                      | 58              | 27              | 10              | 3               | 38                       | 1.44  | -1.68                     | 0.68                 | 6.0                       | 5                            | 16    | 10                           | 5         | nw.        | Prof. C. E. Miller.         |
| Catawissa.....        | Columbia.....     | 520             | 35                      | 28.4                         | +0.7                      | 56              | 27              | 0               | 2               | 37                       | 1.06  | -2.10                     | 0.53                 | 2.2                       | 4                            | 22    | 3                            | 6         | .....      | W. L. Gearhart.             |
| Center Hall.....      | Center.....       | 1,272           | 35                      | 26.5                         | +0.7                      | 51              | 4               | 6               | 1               | 30                       | 1.79  | -0.77                     | 0.75                 | 8.0                       | 4                            | 21    | 6                            | 4         | .....      | S. W. Smith.                |
| Chambersburg.....     | Franklin.....     | 580             | 32                      | 33.8                         | +4.9                      | 57              | 27              | 12              | 2               | 34                       | 1.27  | -1.47                     | 0.57                 | 2.7                       | 5                            | 7     | 15                           | 9         | nw.        | William B. Spear.           |
| Clearfield.....       | Clearfield.....   | 1,120           | 24                      | 30.7                         | +3.9                      | 60              | 25              | 2               | 2               | 44                       | 1.06  | -2.56                     | 0.67                 | 10.8                      | 8                            | 17    | 12                           | 2         | sw.        | E. W. Hess.                 |
| Coatesville.....      | Chester.....      | 380             | 44                      | 32.2                         | +2.3                      | 57              | 27              | 11              | 15              | 26                       | 2.49  | -1.48                     | 1.30                 | 2.0                       | 4                            | 18    | 3                            | 10        | nw.        | Howard L. Pyle.             |
| Colebrook.....        | Lebanon.....      | 560             | 20                      | 28.6                         | +1.6                      | 50              | 27              | 3               | 16              | 31                       | 1.73  | -1.62                     | 0.74                 | 2.8                       | 4                            | 15    | 6                            | 10        | w.         | Wm. A. Rorer.               |
| Emporium.....         | Cameron.....      | 1,050           | 44                      | 28.0                         | +2.5                      | 54              | 25              | -2              | 2               | 42                       | 1.46  | -2.08                     | 0.65                 | 6.7                       | 8                            | 8     | 13                           | 10        | w.         | T. B. Lloyd.                |
| Ephrata.....          | Lancaster.....    | 380             | 39                      | 32.3                         | +2.7                      | 56              | 27              | 12              | 15              | 29                       | 1.71  | -1.33                     | 0.70                 | 2.4                       | 4                            | 11    | 11                           | 9         | w.         | Ira J. Keath.               |
| Freeland.....         | Luzerne.....      | 1,970           | 38                      | 26.0                         | +2.1                      | 50              | 27              | 2               | 15              | 26                       | 1.79  | -1.82                     | 0.72                 | 7.7                       | 9                            | 12    | 6                            | 13        | nw.        | Theo. Reichmann.            |
| George School.....    | Bucks.....        | 190             | 25                      | 32.9                         | +2.3                      | 60              | 27              | 12              | 15              | 34                       | 1.95  | -1.21                     | 0.70                 | 0.9                       | 4                            | 18    | 6                            | 7         | nw.        | Prof. N. W. Swayne.         |
| Gettysburg.....       | Adams.....        | 553             | 58                      | 33.9                         | +4.5                      | 60              | 27              | 10              | 16              | 34                       | 1.96  | -1.16                     | 1.29                 | 2.0                       | 4                            | 9     | 14                           | 8         | w.         | Dr. Henry Stewart.          |
| Gordon.....           | Schuylkill.....   | 840             | 27                      | 27.0                         | -0.7                      | 55              | 27              | -2              | 14              | 43                       | 1.52  | -2.26                     | 0.60                 | 7.0                       | 4                            | 18    | 5                            | 8         | w.         | Capt. J. G. Johnson.        |
| Goldsboro.....        | Wayne.....        | 1,875           | 16                      | 21.0                         | .....                     | 45              | 27              | -12             | 23              | 42                       | 1.47  | -1.72                     | 0.45                 | 11.0                      | 8                            | 18    | 4                            | 9         | nw.        | Gustav Holtz.               |
| Hamburg.....          | Berks.....        | 535             | 38                      | 30.2                         | +1.9                      | 53              | 28              | 7               | 14              | 28                       | 2.02  | -1.57                     | 0.93                 | 4.0                       | 6                            | 18    | 7                            | 5         | w.         | State Sanatorium.           |
| Hanover.....          | York.....         | 600             | 27                      | 35.0                         | +2.9                      | 59              | 27              | 12              | 16              | 29                       | 1.45  | -1.76                     | 0.64                 | 2.1                       | 5                            | 14    | 9                            | 8         | s.         | Thomas Y. Cooper.           |
| Harrisburg.....       | Dauphin.....      | 361             | 62                      | 33.1                         | +4.1                      | 56              | 27              | 14              | 15              | 25                       | 1.82  | -1.27                     | 1.13                 | 1.5                       | 5                            | 10    | 12                           | 9         | w.         | U. S. Weather Bureau.       |
| Hawley.....           | Wayne.....        | 900             | 13                      | 24.6                         | 0.0                       | 48              | 27              | -5              | 2               | 42                       | 1.82  | -1.18                     | 1.16                 | 6.2                       | 10                           | 15    | 10                           | 6         | w.         | Mrs. Della M. Pennell.      |
| Holtwood.....         | Lancaster.....    | 200             | 16                      | 32.2                         | +2.1                      | 57              | 28              | 12              | 16              | 25                       | 1.34  | -1.91                     | 0.70                 | 1.5                       | 5                            | 8     | 16                           | 7         | .....      | H. W. Lowy, C. E.           |
| Huntingdon.....       | Huntingdon.....   | 650             | 44                      | 32.2                         | -3.7                      | 57              | 26              | 2               | 2               | 45                       | 1.32  | -1.91                     | 0.54                 | 2.0                       | 5                            | 15    | 8                            | 8         | w.         | Prof. Paul R. Yoder.        |
| Hyndman.....          | Bedford.....      | 977             | 19                      | 34.5                         | +4.4                      | 65              | 25              | 7               | 16              | 41                       | 1.12  | -2.01                     | 0.44                 | 0.6                       | 6                            | 2     | 6                            | 23        | .....      | Horace A. Sheavly.          |
| Lancaster.....        | Lancaster.....    | 255             | 44                      | 28.2                         | -1.5                      | 51              | 28              | 8               | 2               | 31                       | 1.81  | -1.43                     | 0.80                 | 1.0                       | 4                            | 21    | 7                            | 3         | nw.        | Supt. of Water Works.       |
| Lawrenceville.....    | Tioga.....        | 1,000           | 34                      | 27.3                         | +2.7                      | 53              | 27              | 0               | 2               | 39                       | 1.09  | -0.88                     | 0.52                 | 7.0                       | 6                            | 15    | 7                            | 9         | .....      | C. P. Darling.              |
| Lebanon.....          | Lebanon.....      | 469             | 47                      | 32.2                         | +3.4                      | 57              | 27              | 11              | 15              | 29                       | 1.85  | -1.60                     | 0.95                 | 2.1                       | 4                            | 15    | 11                           | 5         | nw.        | S. B. Benzing.              |
| Lewisburg.....        | Union.....        | 450             | 55                      | 30.0                         | +3.7                      | 57              | 27              | 7               | 3               | 32                       | 1.38  | -1.62                     | 0.45                 | 3.5                       | 4                            | 12    | 11                           | 8         | w.         | Prof. W. G. Owens.          |
| Lock Haven.....       | Clinton.....      | 560             | 41                      | 31.1                         | +3.7                      | 52              | 28              | 5               | 15              | 32                       | 1.04  | -2.10                     | 0.38                 | 6.0                       | 6                            | 10    | 11                           | 10        | sw.        | Joseph Beaver.              |
| Lykens.....           | Dauphin.....      | 680             | 16                      | 29.8                         | +2.1                      | 58              | 27              | 0               | 2               | 42                       | 1.43  | -1.76                     | 0.70                 | 2.5                       | 4                            | 19    | 6                            | 6         | nw.        | Susquehanna Collieries Co.  |
| Marcus Hook.....      | Delaware.....     | 50              | 4                       | 36.2                         | .....                     | 54 <sup>c</sup> | 4 <sup>c</sup>  | 15 <sup>c</sup> | 15              | 29 <sup>c</sup>          | 2.35  | .....                     | 1.06                 | T.                        | 5                            | 15    | 11                           | 5         | w.         | Sun Oil Co.                 |
| Mauch Chunk.....      | Carbon.....       | 600             | 42                      | 30.2                         | -2.9                      | 58              | 27              | 10              | 15              | 30                       | 1.80  | -1.94                     | 0.92                 | 5.0                       | 5                            | 18    | 4                            | 9         | w.         | R. K. Wintermute.           |
| Midbinton.....        | Juniata.....      | 445             | 27                      | 31.4                         | +3.5                      | 56              | 27              | 8               | 2               | 37                       | 0.97  | -1.96                     | 0.46                 | 3.0                       | 5                            | 16    | 7                            | 8         | w.         | Wellington Smith.           |
| Montrose.....         | Susquehanna.....  | 1,720           | 27                      | 21.6                         | +0.6                      | 43              | 4 <sup>c</sup>  | -7              | 22              | 32                       | 0.80  | -1.79                     | 0.20                 | 8.0                       | 5                            | 11    | 8                            | 12        | w.         | Silas Jagger.               |
| Mt. Pocono.....       | Monroe.....       | 1,658           | 25                      | 26.7                         | +3.9                      | 48              | 5               | 5               | 8 <sup>c</sup>  | 25                       | 2.08  | -1.19                     | 1.00                 | 15.8                      | 9                            | 13    | 7                            | 11        | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley.....     | Sullivan.....     | 1,045           | 19                      | 24.7                         | +0.1                      | 48              | 27              | -3              | 22              | 38                       | 1.48  | -1.72                     | 0.76                 | 6.7                       | 5                            | 19    | 2                            | 10        | sw.        | H. O. Hacker.               |
| Narberth.....         | Montgomery.....   | 300             | 12                      | 31.0                         | -0.2                      | 56              | 27              | 10              | 15              | 27                       | 2.37  | -1.22                     | .....                | 1.4                       | 4                            | 15    | 7                            | 9         | nw.        | Charles Decker.             |
| Neshaminy Falls.....  | Bucks.....        | 60              | 42                      | 30.4                         | +0.9                      | 60              | 27              | 10              | 23              | 45                       | 2.21  | -1.22                     | 1.03                 | T.                        | 7                            | 12    | 10                           | 9         | s.         | North Springfield Water Co. |
| Palmerston.....       | Carbon.....       | 398             | 13                      | 29.6                         | .....                     | 54              | 27              | 6               | 22              | 32                       | 1.44  | -0.95                     | 0.67                 | 3.1                       | 4                            | 11    | 12                           | 8         | w.         | New Jersey Zinc Co.         |
| Philadelphia.....     | Philadelphia..... | 114             | 60                      | 36.2                         | +3.6                      | 56              | 27              | 16              | 15              | 19                       | 2.17  | -1.13                     | 0.89                 | 0.1                       | 4                            | 11    | 8                            | 12        | nw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn..... | Philadelphia..... | 113             | 7                       | 35.0                         | .....                     | 57              | 27              | 15              | 15              | 21                       | 2.26  | .....                     | 1.05                 | 0.5                       | 4                            | 11    | 10                           | 10        | .....      | Julius Bernstein.           |
| Phila. Navy Yard..... | Philadelphia..... | 12              | 15                      | 34.2                         | +2.5                      | 54              | 4               | 14              | 15              | 21                       | 2.12  | -0.99                     | 0.88                 | 0.1                       | 6                            | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |
| Phoenixville.....     | Chester.....      | 100             | 21                      | 32.8                         | +2.7                      | 60              | 27              | 11              | 16              | 33                       | 2.20  | -1.51                     | 0.78                 | 2.0                       | 4                            | 20    | 8                            | 3         | w.         | North Springfield Water Co. |
| Quakertown.....       | Bucks.....        | 496             | 46                      | 29.4                         | +3.5                      | 55              | 27              | 5               | 14              | 33                       | 1.94  | -1.54                     | 0.83                 | 2.7                       | 4                            | 13    | 9                            | 9         | nw.        | John E. Benner.             |
| Reading.....          | Berks.....        | 325             | 59                      | 33.2                         | +3.8                      | 56              | 27              | 13              | 15              | 24                       | 2.16  | -1.41                     | 1.05                 | 0.3                       | 4                            | 11    | 12                           | 8         | nw.        | U. S. Weather Bureau.       |
| Scranton.....         | Lackawanna.....   | 805             | 37                      | 27.8                         | +1.2                      | 50              | 27              | 7               | 2               | 26                       | 1.37  | -1.66                     | 0.63                 | 4.5                       | 10                           | 4     | 15                           | 12        | sw.        | U. S. Weather Bureau.       |
| Selinsgrove.....      | Snyder.....       | 455             | 41                      | 29.7                         | +1.3                      | 56              | 27              | 7               | 16              | 35                       | 1.80  | -1.24                     | 0.88                 | 6.5                       | 5                            | 11    | 11                           | 9         | w.         | Dr. George E. Fisher.       |
| Shawmont.....         | Philadelphia..... | 51              | 35                      | 32.5                         | .....                     | 57              | 27              | 14              | 15 <sup>c</sup> | 29                       | 2.17  | -1.11                     | 0.66                 | 1.5                       | 4                            | 12    | 10                           | 9         | nw.        | W. S. Guiles.               |
| State College.....    | Center.....       | 1,217           | 47                      | 30.8                         | +4.5                      | 53              | 25 <sup>c</sup> | 7               | 15              | 33                       | 1.00  | -1.99                     | 0.43                 | 4.8                       | 5                            | 6     | 17                           | 8         | w.         | C. A. Kern.                 |
| Stroudsburg.....      | Monroe.....       | 500             | 17                      | 25.8                         | -0.7                      | 55              | 4 <sup>c</sup>  | 1               | 16 <sup>c</sup> | 39                       | 2.39  | -0.72                     | 1.50                 | 5.0                       | 5                            | 17    | 7                            | 7         | nw.        | State Normal School.        |
| Towanda.....          | Bradford.....     | 754             | 37                      | 25.6                         | +0.5                      | 50              | 27              | -4              | 2               | 36                       | 1.50  | -0.56                     | 0.58                 | 7.4                       | 9                            | 8     | 12                           | 11        | sw.        | Hiram E. Bull, C. E.        |
| Wellsboro.....        | Tioga.....        | 1,419           | 61                      | 26.1                         | +2.3                      | 53              | 27              | 1               | 23              | 34                       | 1.11  | -1.38                     | 0.47                 | 8.7                       | 8                            | 16    | 5                            | 9         | w.         | George W. Hill.             |
| West Chester.....     | Chester.....      | 455             | 82                      | 34.0                         | +3.8                      | 57              | 27              | 11              | 15              | 24                       | 1.73  | -2.06                     | 0.82                 | 1.8                       | 4                            | 13    | 11                           | 7         | nw.        | Joseph W. Belt.             |
| Williamsport.....     | Lycoming.....     | 521             | 45                      | 28.0                         | +0.7                      | 51              | 27              | 7               | 14 <sup>c</sup> | 29                       | 1.43  | -1.52                     | 0.62                 | 7.6                       | 9                            | 19    | 0                            | 12        | w.         | Miss Veronica E. April.     |
| York.....             | York.....         | 400             | 43                      | 32.0                         | +2.4                      | 62              | 4               | 7               | 21              | 38                       | 1.67  | -1.25                     | 0.88                 | 3.0                       | 4                            | 20    | 6                            | 5         | e.         | York Water Co.              |
| Ohio Drainage.        |                   |                 |                         |                              |                           |                 |                 |                 |                 |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam.....       | Beaver.....       | 700             | 39                      | 32.0                         | +2.2                      | 60              | 25              | 7               | 22              | 35                       | 1.10  | -1.78                     | 0.21                 | 4.0                       | 10                           | 7     | 17                           | 7         | sw.        | U. S. Engineer.             |
| Bradford.....         | McKean.....       | 1,460           | 12                      | 25.8                         | +2.6                      | 50              | 25 <sup>c</sup> | 0               | 8 <sup>c</sup>  | 36                       | 1.36  | -2.00                     | 0.32                 | 11.0                      | 8                            | 7     | 12                           | 12        | sw.        | Supt. Timber Pres. Plant.   |
| Brookville.....       | Jefferson.....    | 1,173           | 41                      | 25.2 <sup>a</sup>            | +1.2                      | 56 <sup>a</sup> | 25              | -9 <sup>a</sup> | 2               | 46 <sup>a</sup>          | 1.03  | -0.26                     | 0.27                 | 8.0                       | 9                            | 18    | 4                            | 9         | .....      | John Fawcett.               |
| Butler.....           | Butler.....       | 1,152           | 17                      | 31.2                         | .....                     | 58              | 25              | 3               | 22              | 36                       | 1.00  | -1.93                     | 0.33                 | 5.5                       |                              |       |                              |           |            |                             |



## Daily Precipitation for January, 1931

| Stations           | Drainage Basin | Day of month |   |   |   |        |     |     |   |    |    |        |     |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      | Total |      |  |  |
|--------------------|----------------|--------------|---|---|---|--------|-----|-----|---|----|----|--------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|--|--|
|                    |                | 1            | 2 | 3 | 4 | 5      | 6   | 7   | 8 | 9  | 10 | 11     | 12  | 13 | 14 | 15 | 16 | 17 | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |  |  |
| Atlantic Drainage. |                |              |   |   |   |        |     |     |   |    |    |        |     |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |  |  |
| Allentown\|\|\| | Lehigh         |              |   |   |   | 1.08   |     |     |   |    |    | .08    | .18 |    |    |    |    |    |     | .55 | .15 |     |     |     |     |     |     |     |     |     |     | 2.04 |       |      |  |  |
| Altoona.           | Juniata        | .01          |   |   |   | .20    | .28 |     |   |    |    | .17    |     | T. |    |    |    |    |     | .61 | .03 | .12 |     |     |     |     |     |     |     | .03 | T.  | 1.45 |       |      |  |  |
| Ansonia\|\|\| | W. Br. Susq.   |              |   |   |   | .53    |     |     |   |    |    | .11    | .01 | T. |    |    |    |    |     | .16 | .10 |     | .01 |     | T.  |     |     |     |     | .08 | T.  | .05  | 1.05  |      |  |  |
| Arendtsville\|\|\| | Lower Susq.    |              |   |   |   | .90    |     |     |   |    |    | .30    | .03 |    |    |    |    |    |     | .40 |     |     |     |     |     |     |     |     |     |     |     | 1.63 |       |      |  |  |
| Baker's Summit.    | Juniata        |              |   |   |   | .45    | .09 |     |   |    |    | .15    |     |    |    |    |    |    |     | .54 |     |     |     |     |     |     |     |     |     | .03 |     | 1.32 |       |      |  |  |
| Bellefonte***      | W. Br. Susq.   | T.           |   |   |   | .38    | .08 | T.  |   | T. | T. | .15    | T.  | T. | T. | T. |    |    | .01 | .31 | .02 | .02 | T.  | T.  |     |     |     | .06 | .03 | .01 | T.  | 1.01 |       |      |  |  |
| Bethlehem          | Lehigh         |              |   |   |   | .13    | .70 |     |   |    |    | .32    |     |    |    |    |    |    |     | .65 | .01 |     |     |     |     |     |     |     |     |     |     | 1.81 |       |      |  |  |
| Blosserville       | Lower Susq.    |              |   |   |   | .45    |     |     |   |    |    | .26    |     |    |    |    |    |    |     | .35 |     |     |     |     |     |     |     |     | .02 | T.  |     | 1.08 |       |      |  |  |
| Carlisle.          | Lower Susq.    |              |   |   |   | .30    | .38 |     |   |    |    | .22    |     |    |    |    |    |    |     | .50 | T.  |     |     |     |     |     |     | .04 |     |     | T.  | 1.44 |       |      |  |  |
| Catawissa.         | N. Br. Susq.   |              |   |   |   | .45    | .08 |     |   |    |    | .20    |     |    |    |    |    |    |     | .33 |     |     |     |     |     |     |     |     |     |     |     | 1.06 |       |      |  |  |
| Center Hall        | Susquehanna    |              |   |   |   | .20    | .32 |     |   |    |    | .52    |     |    |    |    |    |    |     | .75 |     |     |     |     |     |     |     |     |     |     |     | 1.79 |       |      |  |  |
| Chambersburg       | Potomac        |              |   |   |   | .30    | .27 |     |   |    |    | .25    |     |    |    |    |    |    |     | .43 |     |     |     |     |     |     |     |     |     |     |     | 1.27 |       |      |  |  |
| Clearfield.        | W. Br. Susq.   | T.           |   |   |   | .03    | T.  |     |   |    |    | .17    |     |    |    |    |    |    |     | .67 | .02 | .03 |     |     |     |     |     |     | .05 | .06 | T.  | .03  | 1.06  |      |  |  |
| Coatesville.       | Lower Del.     |              |   |   |   | .70    | .60 |     |   |    |    | .46    |     |    |    |    |    |    |     | .73 |     |     |     |     |     |     |     |     |     |     |     | 2.49 |       |      |  |  |
| Colebrook          | Lower Susq.    |              |   |   |   | .36    | .31 |     |   |    |    | .32    |     |    |    |    |    |    |     | .74 | T.  | T.  |     |     |     |     |     |     |     |     | T.  | T.   | 1.73  |      |  |  |
| Conshohocken.      | Schuylkill.    |              |   |   |   | .73    | .01 |     |   |    |    | .04    |     |    |    |    |    |    |     | .12 |     |     |     |     |     |     |     |     |     | T.  |     | 0.90 |       |      |  |  |
| Cresson.           | Juniata        |              |   |   |   | .60    | .13 |     |   |    |    | .14    |     |    |    |    |    |    |     | .44 | .09 | .03 |     |     |     |     |     |     |     |     | .09 |      | 1.52  |      |  |  |
| Doylestown         | Lower Del.     |              |   |   |   | .23    | .58 |     |   |    |    | .45    |     |    |    |    |    |    |     | .50 |     |     |     |     |     |     |     |     |     |     | T.  |      | 1.76  |      |  |  |
| Driftwood\|\|\| | W. Br. Susq.   | T.           |   |   |   | .08    | .10 |     |   |    |    | .11    | T.  | T. |    |    |    |    |     | .30 | T.  |     |     |     |     |     |     |     |     |     | T.  |      | 0.59  |      |  |  |
| Emporium           | do.            |              |   |   |   | .13    | .28 |     |   |    | T. |        |     |    |    |    |    |    |     | .65 | .05 | .05 |     |     | T.  |     |     |     |     | .10 | .10 | T.   | 1.46  |      |  |  |
| Ephrata.           | Lower Susq.    |              |   |   |   | .29    | .38 |     |   |    |    | .34    |     |    |    |    |    |    |     | .70 |     |     |     |     |     |     |     |     |     |     | T.  |      | 1.71  |      |  |  |
| Forest City.       | N. Br. Susq.   |              |   |   |   | T.     | .98 |     |   |    |    | .11    | .09 |    | T. |    |    | T. |     | .47 | .16 | T.  | .03 |     |     |     |     |     |     | .11 |     | .16  | 2.11  |      |  |  |
| Freeland\|\|\| | Lehigh         |              |   |   |   | .72    | T.  |     |   |    |    | .16    | .15 |    | T. |    |    |    |     | .52 | .08 | .10 |     |     | T.  |     | .01 |     |     | .04 | T.  | .01  | 1.79  |      |  |  |
| George School      | Lower Del.     |              |   |   |   | .22    | .58 |     |   |    |    | .45    | T.  |    |    |    |    |    |     | .70 |     | T.  |     |     |     |     |     |     |     |     |     |      | 1.95  |      |  |  |
| Gettysburg         | Potomac        |              |   |   |   | .52    | .77 |     |   |    |    | .24    |     |    |    |    |    |    |     | .43 |     | T.  |     |     |     |     |     |     | T.  |     | T.  | T.   | 1.96  |      |  |  |
| Girardville\|\|\| | Lower Susq.    |              |   |   |   | .59    |     |     |   |    |    | .42    |     |    |    |    |    |    |     | .50 |     | .02 |     |     |     |     |     |     |     |     | .01 |      | 1.54  |      |  |  |
| Gordon.            | Lower Susq.    |              |   |   |   | .26    | .41 |     |   |    |    | .25    |     |    |    |    |    |    |     | .60 |     |     |     |     |     |     |     |     |     |     | T.  |      | 1.52  |      |  |  |
| Gouldsboro\|\|\| | Lehigh         |              |   |   |   | .18    |     | .13 |   |    |    |        | .27 |    |    |    |    |    |     |     | .45 | .19 |     |     |     | .05 |     |     |     |     | .10 | .05  |       | 1.47 |  |  |
| Graterford.        | Schuylkill.    |              |   |   |   | .08    | .12 |     |   |    |    | .18    |     |    |    |    |    |    |     | .58 |     |     |     |     |     |     |     |     |     |     |     |      | 1.96  |      |  |  |
| Hamburg.           | Schuylkill.    |              |   |   |   | .90    | .03 |     |   |    |    | .41    |     |    |    |    |    |    |     | .65 |     |     |     |     |     |     |     |     |     | .02 | .01 |      | 2.02  |      |  |  |
| Hanover.           | Schuylkill.    |              |   |   |   | .15    | .49 |     |   |    |    | .28    |     |    |    |    |    |    |     | .52 |     | T.  |     |     |     |     |     | T.  |     |     | T.  | .01  | 1.45  |      |  |  |
| Harrisburg**       | do.            |              |   |   |   | 1.05   | .08 |     |   |    |    | .25    |     |    | T. |    |    |    | T.  | .43 | T.  |     |     |     |     |     | T.  |     |     | T.  | T.  | .01  | 1.82  |      |  |  |
| Hawley\|\|\| | Upper Del.     |              |   |   |   | 1.08   | .08 |     |   |    |    | .04    | .04 |    |    |    |    |    |     | .20 | .20 | .02 | T.  |     |     | .02 | T.  |     |     |     | T.  | .01  | .13   | 1.82 |  |  |
| Hollisterville.    | Upper Del.     | T.           |   |   |   | .83    | T.  | T.  |   |    |    | .14    | .07 |    |    |    |    |    |     | .19 | .19 | .06 |     |     |     | .02 | .01 |     |     |     | T.  |      | .06   | 1.61 |  |  |
| Holtwood\|\|\| | Lower Susq.    |              |   |   |   | .70    |     |     |   |    |    | .20    | .11 |    |    |    |    |    |     | .30 | .09 |     |     |     |     |     |     |     | T.  |     |     | T.   | 1.34  |      |  |  |
| Huntingdon.        | Juniata        |              |   |   |   | .19    | .35 |     |   |    |    | .20    |     |    | T. |    |    |    |     | .48 |     | T.  |     |     |     |     |     |     |     | .10 | T.  |      | 1.32  |      |  |  |
| Hyndman.           | Potomac        | T.           |   |   |   | .44    | .13 |     |   |    |    | .11    |     |    | T. |    |    |    |     | .32 |     | T.  |     |     |     |     |     |     |     |     | T.  |      | 1.12  |      |  |  |
| Kylertown.         | W. B. Susq.    | T.           |   |   |   | T.     | T.  |     |   |    |    | .20    | T.  | T. | T. |    |    |    |     | .60 | T.  | T.  | .24 |     |     |     |     |     |     |     | T.  | T.   | 1.04  |      |  |  |
| Lakeville\|\|\| | Upper Del.     |              |   |   |   | .94    | .03 |     |   |    |    | .08    | .04 |    |    |    |    |    |     | .15 | .18 | .03 |     |     |     | .02 |     |     |     | .01 | .01 | .16  | 1.65  |      |  |  |
| Laucaster.         | Lower Susq.    |              |   |   |   | .20    | .55 |     |   |    |    | .26    |     |    |    |    |    |    |     | .80 |     |     |     |     |     |     |     |     |     |     |     |      | 1.81  |      |  |  |
| Lansford\|\|\| | Lehigh         |              |   |   |   | .72    |     |     |   |    |    | .17    | .10 |    |    |    |    |    |     | .16 | .11 |     |     |     |     |     |     |     |     |     |     |      | 1.26  |      |  |  |
| Lawrenceville.     | N. Br. Susq.   | T.           |   |   |   | T.     | .52 |     |   |    |    | .05    |     |    |    |    |    |    |     | .22 | T.  |     |     |     |     | .20 |     |     |     |     | T.  | .05  | .05   | 1.09 |  |  |
| Lebanon.           | Lower Susq.    |              |   |   |   | .32    | .63 |     |   |    |    | .28    | T.  |    |    |    |    |    |     | .67 | T.  | T.  | T.  |     |     | T.  |     |     |     |     | T.  | T.   | 1.85  |      |  |  |
| Lewisburg.         | W. Br. Susq.   |              |   |   |   | .30    | .45 |     |   |    |    | .19    |     |    |    |    |    |    |     | .44 |     |     |     |     |     |     |     |     |     |     | T.  |      | 1.38  |      |  |  |
| Lloyd.             | do.            |              |   |   |   |        |     |     |   |    |    |        |     |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |  |  |
| Lock Haven.        | do.            |              |   |   |   | .07    | .31 |     |   |    |    | .22    |     |    |    |    |    |    |     | .36 |     |     |     |     |     |     |     |     |     | .05 | .03 |      | 1.04  |      |  |  |
| Lykens.            | Susquehanna.   |              |   |   |   | .09    | .61 |     |   |    |    | .25    |     |    |    |    |    |    |     | .48 | T.  | T.  |     |     |     |     |     |     |     |     | T.  | T.   |       | 1.43 |  |  |
| Marcus Hook.       | Lower Del.     |              |   |   |   | * 1.06 |     |     |   |    |    | * 1.06 |     |    |    |    |    |    |     | .77 |     |     |     |     |     |     |     |     |     |     |     |      | 2.35  |      |  |  |
| Mauch Chunk.       | Lehigh         |              |   |   |   | .55    | .37 |     |   |    |    | .31    |     |    |    |    |    |    |     | .56 |     |     |     |     |     |     |     |     |     |     | T.  |      | .06   | 1.80 |  |  |
| Midlinton.         | Juniata.       |              |   |   |   | .16    | .30 |     |   |    |    | .16    |     |    |    |    |    |    |     | .34 |     | T.  |     |     |     |     |     |     |     |     | .01 | T.   |       | 0.97 |  |  |
| Montrose.          | N. Br. Susq.   |              |   |   |   | .20    |     |     |   |    |    | .20    |     |    |    |    |    |    |     |     | .20 |     |     |     |     | .10 |     |     |     |     | .20 |      | .10   | 0.80 |  |  |
| Morris Run.        | N. Br. Susq.   |              |   |   |   | .10    | .32 |     |   |    |    | .21    |     |    |    |    |    |    |     | .36 | .05 |     |     |     |     |     |     |     |     |     | .13 |      | .09   | 1.30 |  |  |
| Mount Pocono.      | Upper Del.     |              |   |   |   | .10    | .20 |     |   |    |    | 1.00   |     |    |    |    |    |    |     | .40 | .10 |     | .12 | .08 |     |     |     |     |     |     | .05 | .03  | 2.08  |      |  |  |
| Muncy Valley.      | W. Br. Susq.   |              |   |   |   | .08    | .68 |     |   |    |    | .31    |     |    |    |    |    |    |     | .29 |     |     |     |     |     |     |     |     |     |     | .12 |      |       | 1.48 |  |  |
| Narberth.          | Lower Del.     |              |   |   |   | .30    | .81 |     |   |    |    | .45    |     |    |    |    |    |    |     | .81 |     |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.37 |  |  |
| Neshaminy\|\|\| | Lower Del.     |              |   |   |   | 1.03   | .06 |     |   |    |    | .01    | .32 |    |    |    |    |    |     | .47 | .30 |     |     |     |     |     |     |     |     |     | T.  | .02  |       | 2.21 |  |  |
| New Park.          | Lower Susq.    |              |   |   |   | .48    | .42 |     |   |    |    | .32    |     |    |    |    |    |    |     | .68 |     |     |     |     |     |     |     |     |     |     |     |      |       | 1.90 |  |  |
| Newport\|\|\| | Juniata.       |              |   |   |   | .72    | .01 |     |   |    |    | .18    |     |    |    |    |    |    |     | .55 |     |     |     |     |     |     |     |     |     |     |     |      |       | 1.46 |  |  |
| Palmertont.        | Lehigh         |              |   |   |   | .62    | .05 |     |   |    |    | .28    |     |    |    |    |    |    |     | .49 |     |     |     |     |     |     |     |     |     |     |     |      | .08   | 1.44 |  |  |
| Paupack\|\|\| | Upper Del.     |              |   |   |   | 1.02   |     |     |   |    |    | .14    |     |    |    |    |    |    |     | .31 | .13 | .05 |     |     | .02 |     |     |     |     |     |     |      |       | 1.75 |  |  |
| Philadelphia***    | Lower Del.     |              |   |   |   | .88    | .02 |     |   |    |    | .54    |     |    |    |    |    |    |     | .73 | T.  |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.17 |  |  |
| Philadelphia-Gtn.  | do.            |              |   |   |   | .54    | .51 |     |   |    |    | .54    | T.  |    |    |    |    |    |     | .67 |     |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.26 |  |  |
| Phila. Navy Yard\|\|\| | do.            |              |   |   |   | .84    | .04 |     |   |    |    | .04    | .46 |    |    |    |    |    |     | .54 | .20 |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.12 |  |  |
| Phila-P'nt Breeze. | Lower Del.     |              |   |   |   | .20    | .61 |     |   |    |    | .54    |     |    |    |    |    |    |     | .69 |     |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.04 |  |  |
| Phoenixville.      | Schuylkill.    |              |   |   |   | .22    | .78 |     |   |    |    | .44    |     |    |    |    |    |    |     | .76 |     |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.20 |  |  |
| Pine Grove\|\|\| | Lower Susq.    |              |   |   |   | .33    | .15 |     |   |    |    | .35    |     |    |    |    |    |    |     | .66 |     |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 1.49 |  |  |
| Pleasant Mount.    | Upper Del.     |              |   |   |   | .71    |     |     |   |    |    | .44    |     |    |    |    |    |    |     | .81 |     | .11 |     |     | T.  |     |     |     |     |     | .28 | .31  |       | 2.66 |  |  |
| Pottstown.         | Schuylkill.    |              |   |   |   | .18    | .10 |     |   |    |    | .39    |     |    |    |    |    |    |     | .78 |     |     |     |     |     |     |     |     |     |     | T.  | T.   |       | 2.45 |  |  |
| Pottsville.        | do.            |              |   |   |   | .34    | .48 |     |   |    |    | .34    |     |    |    |    |    |    |     | .75 |     | T.  |     |     |     |     |     |     |     |     |     |      |       | 1.91 |  |  |
| Quakertown.        | Lower Del.     |              |   |   |   | .28    | .55 |     |   |    |    | .33    |     |    |    |    |    |    |     | .73 |     |     |     |     |     |     |     |     |     |     |     |      |       | 1.94 |  |  |
| Reading***         | Schuylkill.    |              |   |   |   | .97    | .08 |     |   |    |    | .29    |     |    |    |    |    |    | </  |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |  |  |

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## Daily Precipitation for January, 1931—Continued from page 3

| Stations        | Drainage Basin | Day of month |     |     |    |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |     |     |      | Total |      |
|-----------------|----------------|--------------|-----|-----|----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                 |                | 1            | 2   | 3   | 4  | 5   | 6   | 7   | 8   | 9  | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Ohio Drainage.  |                |              |     |     |    |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |     |     |      |       |      |
| Beaver Dam\|\|\| | Ohio           |              |     |     |    | .21 | .16 |     |     |    |    |     | .21 |     | .03 | .05 |     |    |     | .17 | .03 | .16 |     |    |     |     |     |     |     | .03 | .05 |      | 1.10  |      |
| Beaver Falls\|\|\| | Beaver         | T.           | T.  |     |    | .18 | .16 | T.  |     |    |    |     | .11 | .05 | .04 | .01 |     |    |     | .19 | .03 | .06 | T.  |    |     |     |     |     |     | .01 | .02 | .01  | 0.87  |      |
| Bradford        | Allegheny      | .10          |     |     |    | .32 | .16 |     |     |    |    |     | .08 | T.  | T.  |     |     |    |     | .30 | T.  | .10 |     |    |     | .06 |     |     |     | .24 | T.  | 1.36 |       |      |
| Brookville      | do             | T.           |     |     |    | .20 | T.  | T.  |     |    |    |     | .27 | T.  | .02 |     |     |    |     | .22 | .17 | T.  |     |    |     |     |     |     | .05 | .04 | .08 | .03  | 1.08  |      |
| Butler          | Ohio           |              |     |     |    | .10 | .18 |     |     |    |    |     | .33 | T.  | T.  | T.  |     |    |     | .22 | .05 | .06 |     |    |     |     |     |     |     | .03 | .03 |      | 1.00  |      |
| Chambersville   | Allegheny      |              |     |     |    |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |     |     |      |       |      |
| Clairton        | Monongahela    |              |     |     |    | .14 | .33 |     |     | T. |    | .69 | .04 | .01 | T.  | .01 |     |    | .04 | .20 | .03 | .05 |     |    |     | T.  |     |     |     | .04 | .02 | .01  | 1.01  |      |
| Claysville      | Ohio           |              |     |     |    | T.  | .29 |     |     |    |    |     | .15 |     | T.  | .01 |     |    |     | .23 | T.  | .02 |     |    |     |     |     |     | T.  |     | .06 |      | 0.76  |      |
| Clymer\|\|\| | Conemaugh      | T.           | T.  |     |    |     |     | T.  | T.  |    |    |     | .36 | T.  |     |     | T.  |    |     | .36 |     |     | T.  |    | .16 |     |     | T.  |     |     |     | T.   | 0.88  |      |
| Confluence\|\|\| | Youghiogheny   | .04          |     |     |    |     | .28 | .22 |     |    |    |     | .09 | .06 |     | .06 |     |    |     | .20 | .05 | .09 | T.  |    |     |     |     | .10 |     | .08 | T.  | .04  | 1.31  |      |
| Corry           | Allegheny      | .08          |     |     |    | .03 | .38 |     |     |    |    |     | .15 | .02 | .02 | .01 |     |    |     | .31 | .22 | .13 | .02 |    |     |     |     |     |     | .18 | .03 | .12  | 1.70  |      |
| Coudersport     | Allegheny      | T.           |     |     |    | .38 |     |     |     |    |    | .11 | .07 | T.  |     |     |     |    | .23 | .60 | .03 |     | .01 |    | .01 |     |     |     | .10 | .04 | .17 |      | 1.74  |      |
| Derry           | Conemaugh      |              |     |     |    | .15 | .37 |     |     |    |    |     | .11 |     | T.  | T.  |     |    |     | .36 | .03 | .03 |     |    |     |     | T.  |     |     | .12 | T.  | T.   | 1.17  |      |
| Donora\|\|\| | Monongahela    |              |     |     |    | .04 | .59 | T.  |     |    |    |     | .10 | T.  | T.  | T.  | T.  |    | T.  | .23 | .02 | T.  |     |    |     | T.  |     |     |     | .03 | T.  | T.   | 1.01  |      |
| Ebensburg       | Conemaugh      |              |     |     |    | T.  | .26 |     |     |    |    |     | .07 |     | T.  |     |     |    |     | .22 | T.  | .15 |     |    |     |     |     | .02 |     | .06 |     | T.   | 0.78  |      |
| Elk Lick        | Youghiogheny   |              |     |     |    | .25 |     |     |     |    |    |     | .10 | .10 | .10 | .30 |     |    |     | .40 | .10 | .10 |     |    |     |     |     |     |     | .32 |     |      | 1.77  |      |
| Falls Creek     | Allegheny      | .03          |     |     |    |     | .10 |     |     |    |    |     | .20 | .02 |     |     |     |    |     | .54 | .05 | .20 |     |    |     |     |     |     |     | .09 |     | .08  | 1.31  |      |
| Franklin\|\|\| | Allegheny      |              |     |     |    | .13 | .38 |     |     |    |    |     | .20 |     | .03 |     |     |    |     | .32 | .14 | .21 |     |    |     |     |     |     |     | .07 | .04 | .02  | 1.64  |      |
| Freeport\|\|\| | do             | T.           |     |     |    | .01 | .60 | T.  |     |    |    |     | .28 | T.  | .01 | T.  | T.  |    |     | .25 | .07 | .02 |     |    |     |     |     |     |     | .02 | .01 | .01  | 1.28  |      |
| Greensburg      | Monongahela    | .01          |     |     |    |     | .50 | .06 |     |    |    |     | .03 | T.  | T.  | T.  | T.  |    |     | .14 | .03 | T.  | T.  |    |     |     |     | T.  | .04 | .03 | .02 | T.   | 1.06  |      |
| Greensburg      | Youghiogheny   | .04          |     |     |    | .13 | .35 | .01 |     | T. | T. |     | .09 | T.  | T.  | T.  | .02 |    |     | .28 | .04 | .05 |     |    |     | T.  | T.  |     |     | .12 | .02 | .04  | 1.19  |      |
| Greenville      | Beaver         |              |     |     |    | .39 | .18 | T.  |     |    |    |     | .22 | T.  | T.  | T.  |     |    |     | .25 | .07 | .05 |     |    |     |     |     |     |     | .03 | T.  | .03  | 1.22  |      |
| Grove City      | do             | .02          |     |     |    | .21 | .03 | T.  | T.  |    |    |     | .25 | T.  | T.  | T.  | T.  |    |     | .28 | .06 | .11 |     |    |     |     |     |     |     | .05 | .05 | T.   | 1.06  |      |
| Herrs Isl. Dam\|\|\| | Ohio           | .03          |     |     |    | T.  | .52 | T.  |     |    |    |     | .24 | T.  | .02 | .02 | T.  |    |     | .17 | .02 | .14 | T.  |    |     |     |     |     |     | .03 | .04 | T.   | 1.28  |      |
| Ingram          | Ohio           | .01          |     |     |    | .04 | .43 | T.  |     |    |    |     | .20 | .01 | .02 | T.  |     |    |     | .28 | .03 | .04 |     |    |     |     |     |     |     | .06 | .02 | .02  | 1.16  |      |
| Irwin           | Youghiogheny   |              |     |     |    | .20 | .22 |     |     |    |    |     | .21 | T.  | T.  | T.  |     |    |     | .29 | T.  | T.  |     |    |     |     | T.  |     |     | .08 | .02 | T.   | 1.02  |      |
| Johnstown       | Conemaugh      | .04          |     |     |    |     | .35 | .02 |     | T. |    |     | .18 | .02 |     | .01 |     |    |     | .34 | .05 | .08 |     |    |     |     | T.  |     |     | .19 | .01 | .05  | 1.34  |      |
| Kregar\|\|\| | Youghiogheny   | T.           |     |     |    | .49 | .12 | T.  |     |    |    | .08 | .05 |     | .03 | .01 |     |    |     | .07 | .08 | .03 |     |    |     |     | .03 | T.  | .07 | T.  | T.  | .07  | 1.18  |      |
| Lake Lynn\|\|\| | do             | .05          |     |     |    |     | .45 | .30 |     |    |    |     | .08 |     | .04 | .05 |     | T. | .12 | .02 | .03 |     |     |    |     |     |     |     |     | .03 |     |      | 1.11  |      |
| Linesville\|\|\| | Beaver         | .15          |     |     |    |     | .58 | .12 |     |    |    |     | .15 | .04 |     | .20 |     |    |     | .27 | .08 | .19 |     |    |     |     |     |     |     | .04 |     |      | 1.82  |      |
| Lock No. 2\|\|\| | Ohio           | T.           |     |     |    | .11 | .40 | T.  |     |    |    |     | .21 | T.  | .01 | .02 | T.  |    |     | .17 | .03 | .02 | T.  |    |     |     |     |     |     | .05 | .03 | T.   | 1.05  |      |
| Lock No. 4\|\|\| | Monongahela    | T.           |     |     |    |     | .50 | .05 |     |    |    |     | .11 | .02 |     | .02 |     |    |     | .17 | .10 | .02 |     |    |     |     |     | T.  | .02 |     | .06 | .01  | 1.08  |      |
| Lycippus        | Conemaugh      |              |     |     |    | .27 | .55 |     |     |    |    |     | .10 |     | T.  | T.  | T.  | T. |     | .15 | .05 |     | .04 |    |     |     |     |     |     | .13 | T.  |      | 1.29  |      |
| McKeesport\|\|\| | Monongahela    | T.           |     |     |    |     | .39 | T.  |     |    |    |     | .03 | T.  | T.  | T.  | T.  |    |     | .03 | .01 | .01 |     |    |     |     |     |     |     | .01 | T.  | T.   | 0.49  |      |
| Meadville       | Allegheny      | .04          |     |     |    | .21 | .12 |     |     | T. |    |     | .14 |     | .04 |     |     |    |     | .26 | .12 | .15 |     |    |     |     |     |     |     | .10 | .04 |      | 1.22  |      |
| Mount Lebanon   | Ohio           |              |     |     |    | .03 | .30 |     |     |    |    |     | .13 | T.  | T.  |     |     |    |     | .24 | T.  | .04 |     |    |     |     |     |     |     | .01 | .01 | .02  | 0.78  |      |
| Natrona\|\|\| | Allegheny      | .01          |     |     |    | T.  | .51 | .01 | T.  |    |    |     | .29 | .02 | T.  | .01 | T.  |    |     | .21 | .05 | .01 | T.  |    |     |     |     |     |     | .03 | .02 | .03  | 1.20  |      |
| New Castle\|\|\| | Beaver         | .03          | .03 | .01 |    | .17 | .18 |     |     |    |    |     | .19 | .02 | .02 | .02 | .01 |    |     | .22 | .01 | .13 | .03 |    |     |     |     |     |     | .04 | .04 | .01  | 1.16  |      |
| Newell          | Monongahela    |              |     |     |    | .09 |     |     |     |    |    |     | .05 | .01 |     | .04 |     |    |     | .22 |     | .02 |     |    |     |     |     |     | .01 | .01 | .01 | .03  | 0.49  |      |
| Parkers Landing\|\|\| | Allegheny      | .03          | T.  |     |    | T.  | .14 | T.  | T.  |    |    |     | .42 | T.  | T.  |     |     |    |     | .18 | .13 | .30 | T.  |    |     |     |     |     |     | .17 | .05 | T.   | 1.42  |      |
| Pennline\|\|\| | Beaver         | .04          | T.  |     |    | .11 | .71 | .03 |     |    |    |     | .12 | T.  |     | .05 | T.  |    |     | .25 | .08 | .13 | T.  | T. |     |     |     |     | .14 | .07 | T.  |      | 1.73  |      |
| Pittsburgh***   | Ohio           | T.           |     |     | T. | .13 | .31 | T.  |     | T. |    | T.  | .17 | .01 | .02 | .01 |     |    |     | .18 | .10 | .03 |     |    |     |     |     |     |     | .06 | .02 | .02  | 1.16  |      |
| Punxsutawney\|\|\| | Allegheny      |              |     |     |    |     | .05 |     |     |    |    |     | .10 | T.  | T.  |     |     |    |     | .40 | .20 | .30 |     |    |     |     |     |     |     | T.  | .10 | T.   | 1.15  |      |
| Ridgway         | do             | .05          |     |     |    |     | .29 |     |     |    |    |     | .10 | T.  | .05 | T.  | T.  | T. |     | .32 | .25 | .02 | T.  |    |     |     |     |     |     | .09 |     | .12  | 1.29  |      |
| Saltsburg\|\|\| | Conemaugh      | .02          |     |     |    |     | .37 | .03 |     |    |    |     | .11 | .01 | T.  | T.  | T.  |    |     | .21 | .09 | .08 |     |    |     |     |     |     |     | .06 | .06 | .04  | .02   | 1.10 |
| Sharon\|\|\| | Beaver         | T.           | T.  |     |    | .17 | .39 | T.  |     |    |    |     | .20 |     | .02 | T.  |     |    |     | .15 | .02 | T.  |     |    |     |     |     |     |     | .09 | .07 |      | 1.11  |      |
| Somerset        | Youghiogheny   |              |     |     |    | .25 | .21 | T.  |     |    |    |     | .12 | T.  |     | .02 |     |    |     | .35 | T.  | .05 |     |    |     |     |     |     | .08 |     | .18 | T.   | .02   | 1.28 |
| Springdale\|\|\| | Allegheny      |              |     |     |    | T.  | .59 | .02 | T.  |    |    |     | .22 | .02 | .01 | .02 | T.  |    |     | .15 | .09 | .08 |     |    |     |     |     |     |     | .04 | .05 | .03  | 1.32  |      |
| Uniontown       | Monongahela    | T.           |     |     |    | .20 | .65 |     |     |    |    |     | .07 | T.  | .02 | .01 |     |    |     | .16 | .01 | .03 |     |    |     |     |     |     | T.  |     | .10 |      | .02   | 1.27 |
| Unity Reservoir\|\|\| | Youghiogheny   | T.           |     |     |    | .14 | .50 |     |     |    |    |     | .17 |     |     |     |     |    |     | .24 | .05 | .08 |     |    |     |     |     |     |     | .17 | .03 | .02  | 1.40  |      |
| Vandergrift\|\|\| | Conemaugh      |              |     |     |    | .22 | .20 |     |     |    |    | .01 | .40 | .10 |     |     |     |    |     | .30 | .20 | .12 |     |    |     |     |     |     |     |     | .10 | .05  | .05   | 1.34 |
| Warren          | Allegheny      | .09          |     |     |    | .18 | .15 | T.  | .05 |    |    |     | .22 |     |     | .03 |     |    |     | .30 | .20 | .12 |     |    |     |     |     |     |     |     | .10 | .05  | .05   | 1.54 |
| Westford\|\|\| | Beaver         | .10          |     |     |    | .20 | .15 | T.  |     |    |    |     | .06 |     |     |     |     |    |     | .20 | .08 |     |     |    |     |     |     |     |     | .04 |     |      | 0.83  |      |
| West Newton\|\|\| | Youghiogheny   |              |     |     |    |     | .48 | .05 |     |    |    |     | .09 | T.  |     | T.  | T.  |    |     | .10 | .16 | .01 |     |    |     |     |     |     |     | .04 | .06 |      | 0.99  |      |
| Zellenople      | Ohio           |              |     |     |    |     | .16 |     |     |    |    |     |     | .35 | .08 | T.  |     |    |     |     |     |     |     |    | .46 |     |     |     |     |     |     |      | 1.05  |      |
| Lake Drainage.  |                |              |     |     |    |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |     |     |      |       |      |
| Erie***         | Lake Erie      | .02          |     |     |    | .60 | .17 |     |     | T. |    | .03 | .96 | .03 | .01 | .03 |     |    |     | .26 | .21 | .10 | .01 | T. | T.  |     |     |     | T.  | .01 | .08 | .02  | .04   | 1.68 |
| Genesee         | do             | .05          |     |     |    | .02 | .20 |     |     |    |    |     | .20 |     |     | T.  |     |    |     | .30 | .10 |     |     |    |     |     |     |     |     | .40 | .05 |      | 1.32  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville  
Newville; of Clymer, Indiana; of Driftwood, Sinnemahoning; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah † Mdt. to mdt.



## Daily Temperatures for January, 1931

| Stations           | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |      |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Allentown.....     | Maximum | 28    | 36    | 44    | 52    | 41    | 37    | 32    | 35    | 37    | 40    | 43    | 33    | 36    | 33    | 24    | 30    | 41    | 42    | 39    | 39    | 28    | 24    | 35    | 33    | 35    | 47    | 54    | 41    | 42    | 40    | 29    | 37.2  |      |
|                    | Minimum | 21    | 17    | 16    | 17    | 30    | 34    | 26    | 18    | 14    | 16    | 25    | 27    | 25    | 17    | 13    | 12    | 15    | 25    | 28    | 32    | 22    | 14    | 14    | 19    | 20    | 20    | 26    | 32    | 27    | 20    | 20    | 21.4  |      |
| Altoona.....       | Maximum | 30    | 42    | 46    | 51    | 40    | 37    | 30    | 27    | 40    | 38    | 43    | 38    | 30    | 30    | 25    | 10    | 10    | 30    | 25    | 31    | 28    | 15    | 4     | 13    | 24    | 23    | 35    | 30    | 32    | 29    | 21    | 23    | 22.3 |
|                    | Minimum | 15    | 15    | 25    | 32    | 33    | 30    | 21    | 11    | 12    | 28    | 21    | 30    | 25    | 10    | 10    | 10    | 30    | 25    | 31    | 28    | 15    | 4     | 13    | 24    | 23    | 35    | 30    | 32    | 29    | 21    | 23    | 22.3  |      |
| Beaver Dam.....    | Maximum | 33    | 41    | 43    | 49    | 50    | 48    | 34    | 34    | 32    | 39    | 42    | 41    | 36    | 29    | 29    | 35    | 43    | 43    | 42    | 35    | 32    | 29    | 37    | 52    | 60    | 59    | 58    | 52    | 35    | 51    | 50    | 41.5  |      |
|                    | Minimum | 17    | 10    | 20    | 30    | 35    | 32    | 21    | 15    | 16    | 24    | 19    | 32    | 25    | 14    | 14    | 12    | 27    | 22    | 34    | 30    | 12    | 7     | 14    | 27    | 25    | 34    | 27    | 28    | 29    | 26    | 24    | 22.6  |      |
| Bellefonte.....    | Maximum | 28    | 39    | 43    | 48    | 42    | 35    | 30    | 29    | 35    | 38    | 42    | 38    | 32    | 35    | 24    | 34    | 35    | 42    | 39    | 35    | 25    | 24    | 38    | 34    | 51    | 49    | 51    | 40    | 38    | 43    | 36    | 37.2  |      |
|                    | Minimum | 11    | 2     | 1     | 30    | 28    | 27    | 19    | 12    | 10    | 28    | 23    | 31    | 22    | 12    | 8     | 5     | 24    | 26    | 31    | 24    | 11    | 10    | 8     | 22    | 15    | 27    | 25    | 28    | 22    | 21    | 20    | 18.8  |      |
| Brookville.....    | Maximum | 22    | 37    | 41    | 47    | 42    | 36    | 29    | 34    | 36    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                    | Minimum | -6    | -9    | 0     | 21    | 30    | 23    | 8     | 4     | 5     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Butler.....        | Maximum | 33    | 40    | 45    | 54    | 50    | 44    | 31    | 34    | 36    | 44    | 43    | 41    | 36    | 31    | 30    | 33    | 42    | 44    | 41    | 39    | 31    | 29    | 36    | 49    | 58    | 56    | 52    | 51    | 34    | 49    | 46    | 41.4  |      |
|                    | Minimum | 16    | 4     | 15    | 30    | 35    | 29    | 22    | 8     | 12    | 24    | 18    | 32    | 26    | 13    | 14    | 10    | 27    | 20    | 32    | 28    | 14    | 3     | 11    | 27    | 26    | 32    | 25    | 24    | 30    | 23    | 19    | 20.9  |      |
| Carlisle.....      | Maximum | 29    | 42    | 48    | 52    | 41    | 38    | 36    | 32    | 43    | 47    | 46    | 39    | 35    | 33    | 33    | 32    | 46    | 39    | 37    | 40    | 40    | 29    | 41    | 45    | 38    | 53    | 58    | 52    | 45    | 36    | 35    | 40.6  |      |
|                    | Minimum | 23    | 11    | 10    | 30    | 27    | 34    | 27    | 16    | 14    | 30    | 26    | 29    | 30    | 16    | 12    | 11    | 22    | 21    | 32    | 31    | 22    | 15    | 15    | 24    | 26    | 23    | 24    | 30    | 33    | 24    | 28    | 23.1  |      |
| Catawissa.....     | Maximum | 33    | 37    | 35    | 45    | 46    | 40    | 34    | 28    | 32    | 41    | 45    | 38    | 35    | 32    | 26    | 32    | 39    | 46    | 38    | 40    | 33    | 26    | 35    | 31    | 35    | 48    | 56    | 47    | 40    | 35    | 40    | 37.7  |      |
|                    | Minimum | 12    | 0     | 4     | 25    | 25    | 31    | 19    | 10    | 7     | 24    | 20    | 28    | 23    | 11    | 8     | 9     | 27    | 27    | 33    | 32    | 11    | 13    | 11    | 22    | 22    | 24    | 22    | 28    | 25    | 17    | 20    | 19.0  |      |
| Chambersburg.....  | Maximum | 32    | 41    | 49    | 52    | 42    | 39    | 38    | 34    | 42    | 46    | 46    | 40    | 36    | 38    | 31    | 32    | 52    | 40    | 41    | 45    | 36    | 32    | 40    | 54    | 51    | 57    | 51    | 43    | 41    | 45    | 42.3  |       |      |
|                    | Minimum | 19    | 12    | 15    | 35    | 29    | 29    | 25    | 19    | 16    | 33    | 24    | 31    | 30    | 20    | 14    | 31    | 26    | 31    | 34    | 23    | 15    | 20    | 26    | 25    | 37    | 32    | 37    | 31    | 24    | 30    | 25.4  |       |      |
| Chambersville..... | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                    | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Claysville.....    | Maximum | 30    | 44    | 44    | 52    | 50    | 44    | 32    | 35    | 36    | 40    | 43    | 38    | 35    | 28    | 27    | 35    | 45    | 44    | 42    | 35    | 29    | 29    | 41    | 55    | 60    | 55    | 55    | 51    | 40    | 51    | 41.8  |       |      |
|                    | Minimum | 14    | 13    | 26    | 34    | 36    | 30    | 19    | 13    | 15    | 26    | 20    | 33    | 24    | 16    | 13    | 14    | 26    | 24    | 32    | 27    | 19    | 6     | 14    | 24    | 42    | 34    | 30    | 30    | 30    | 27    | 25    | 23.6  |      |
| Clearfield.....    | Maximum | 38    | 43    | 48    | 47    | 43    | 43    | 45    | 37    | 37    | 43    | 47    | 43    | 37    | 37    | 28    | 28    | 37    | 46    | 46    | 40    | 32    | 27    | 39    | 40    | 60    | 56    | 53    | 46    | 39    | 47    | 46    | 41.9  |      |
|                    | Minimum | 12    | 2     | 12    | 26    | 28    | 28    | 21    | 8     | 8     | 27    | 17    | 26    | 18    | 9     | 5     | 27    | 32    | 30    | 30    | 12    | 3     | 3     | 30    | 16    | 32    | 22    | 28    | 21    | 27    | 18    | 19    | 19.5  |      |
| Coatesville.....   | Maximum | 29    | 39    | 46    | 52    | 42    | 42    | 36    | 30    | 41    | 41    | 43    | 35    | 38    | 32    | 26    | 32    | 42    | 41    | 39    | 41    | 35    | 24    | 38    | 41    | 39    | 51    | 54    | 49    | 45    | 38    | 40    | 39.5  |      |
|                    | Minimum | 21    | 14    | 20    | 36    | 31    | 34    | 28    | 20    | 17    | 29    | 27    | 30    | 26    | 17    | 11    | 14    | 25    | 25    | 33    | 31    | 22    | 15    | 17    | 28    | 24    | 32    | 31    | 32    | 29    | 23    | 28    | 24.8  |      |
| Corry.....         | Maximum | 17    | 27    | 41    | 44    | 44    | 20    | 18    | 36    | 31    | 39    | 43    | 38    | 31    | 25    | 20    | 34    | 33    | 42    | 40    | 29    | 26    | 25    | 27    | 39    | 49    | 47    | 41    | 36    | 33    | 39    | 39    | 35.9  |      |
|                    | Minimum | 15    | 17    | 27    | 28    | 32    | 12    | 8     | 5     | 6     | 22    | 15    | 31    | 21    | 10    | 12    | 11    | 26    | 27    | 26    | 24    | 9     | 8     | 9     | 23    | 28    | 30    | 28    | 19    | 22    | 12    | 12    | 18.5  |      |
| Emporium.....      | Maximum | 31    | 35    | 42    | 45    | 42    | 38    | 28    | 30    | 35    | 38    | 38    | 38    | 35    | 30    | 23    | 33    | 37    | 40    | 38    | 35    | 30    | 21    | 35    | 36    | 54    | 50    | 50    | 45    | 36    | 42    | 40    | 37.1  |      |
|                    | Minimum | 16    | -2    | 5     | 25    | 30    | 28    | 20    | 6     | 5     | 31    | 20    | 30    | 25    | 15    | 1     | 6     | 32    | 30    | 33    | 30    | 13    | 6     | 0     | 22    | 28    | 22    | 30    | 25    | 18    | 20    | 18    | 18.8  |      |
| Erie.....          | Maximum | 22    | 38    | 39    | 44    | 41    | 31    | 27    | 30    | 33    | 37    | 43    | 36    | 32    | 25    | 21    | 36    | 34    | 39    | 40    | 32    | 21    | 26    | 29    | 39    | 52    | 38    | 42    | 32    | 34    | 42    | 30    | 34.2  |      |
|                    | Minimum | 17    | 19    | 34    | 33    | 31    | 23    | 21    | 16    | 21    | 27    | 30    | 32    | 25    | 14    | 14    | 18    | 28    | 32    | 31    | 22    | 14    | 14    | 21    | 21    | 30    | 32    | 30    | 22    | 23    | 21    | 14    | 23.4  |      |
| Franklin.....      | Maximum | 22    | 39    | 38    | 50    | 43    | 35    | 30    | 38    | 32    | 42    | 45    | 36    | 30    | 30    | 25    | 36    | 42    | 44    | 41    | 32    | 22    | 23    | 36    | 51    | 55    | 48    | 51    | 42    | 36    | 47    | 34    | 37.9  |      |
|                    | Minimum | 12    | 1     | 5     | 15    | 31    | 30    | 22    | 7     | 7     | 10    | 15    | 18    | 24    | 13    | 10    | 7     | 17    | 25    | 28    | 28    | 14    | 10    | 6     | 12    | 25    | 32    | 23    | 21    | 20    | 19    | 17    | 16.9  |      |
| Freeland.....      | Maximum | 24    | 36    | 42    | 47    | 39    | 36    | 27    | 24    | 35    | 38    | 41    | 32    | 32    | 30    | 18    | 25    | 37    | 42    | 34    | 33    | 29    | 20    | 32    | 31    | 27    | 43    | 50    | 44    | 36    | 33    | 25    | 33.6  |      |
|                    | Minimum | 15    | 10    | 25    | 30    | 32    | 26    | 16    | 7     | 14    | 21    | 22    | 26    | 21    | 12    | 2     | 6     | 23    | 25    | 25    | 28    | 10    | 4     | 7     | 18    | 26    | 41    | 27    | 24    | 8     | 11    | 18.3  |       |      |
| Genesee.....       | Maximum | 30    | 35    | 40    | 45    | 42    | 40    | 32    | 27    | 33    | 35    | 40    | 40    | 33    | 25    | 20    | 30    | 32    | 35    | 37    | 35    | 30    | 21    | 30    | 27    | 51    | 48    | 46    | 45    | 35    | 29    | 28    | 34.7  |      |
|                    | Minimum | 15    | 3     | 15    | 20    | 27    | 20    | 20    | -3    | -1    | 15    | 19    | 27    | 23    | 6     | -2    | 5     | 29    | 28    | 24    | 27    | 12    | 9     | -1    | 16    | 17    | 30    | 22    | 20    | 21    | 2     | 10    | 15.3  |      |
| Gettysburg.....    | Maximum | 32    | 43    | 51    | 56    | 47    | 40    | 36    | 31    | 44    | 42    | 46    | 38    | 34    | 35    | 31    | 30    | 47    | 41    | 43    | 41    | 37    | 29    | 41    | 50    | 42    | 54    | 60    | 54    | 43    | 39    | 44    | 42.0  |      |
|                    | Minimum | 23    | 13    | 17    | 35    | 32    | 35    | 26    | 20    | 16    | 34    | 27    | 32    | 30    | 19    | 15    | 10    | 25    | 25    | 32    | 34    | 24    | 16    | 20    | 27    | 28    | 30    | 34    | 39    | 29    | 22    | 30    | 25.8  |      |
| Greensburg.....    | Maximum | 30    | 40    | 45    | 53    | 48    | 42    | 31    | 35    | 37    | 39    | 44    | 39    | 35    | 28    | 27    | 32    | 44    | 45    | 44    | 36    | 30    | 27    | 41    | 53    | 61    | 54    | 52    | 47    | 39    | 52    | 50    | 41.3  |      |
|                    | Minimum | 17    | 15    | 31    | 34    | 36    | 30    | 21    | 14    | 19    | 29    | 23    | 33    | 25    | 21    | 15    | 13    | 26    | 34    | 28    | 17    | 8     | 18    | 28    | 40    | 35    | 33    | 28    | 28    | 25    | 23    | 25.0  |       |      |
| Grove City.....    | Maximum | 27    | 38    | 44    | 51    | 42    | 54    | 40    | 40    | 38    | 40    | 44    | 42    | 36    | 32    | 26    | 34    | 40    | 41    | 40    | 33    | 30    | 30    | 36    | 48    | 53    | 55    | 52    | 44    | 35    | 48    | 44    | 40.5  |      |
|                    | Minimum | 13    | 5     | 4     | 25    | 34    | 13    | 21    | 7     | 12    | 20    | 18    | 41    | 21    | 23    | 12    | 16    | 22    | 21    | 30    | 26    | 12    | 5     | 9     | 25    | 29    | 31    | 27    | 21    | 23    | 19    | 16    | 19.1  |      |
| Hamburg.....       | Maximum | 37    | 36    | 43    | 50    | 46    | 42    | 39    | 34    | 33    | 42    | 46    | 40    | 35    | 33    | 31    | 27    | 36    | 44    | 38    | 39    | 33    | 30    | 34    | 37    | 32    | 47    | 52    | 53    | 44    | 41    | 43    | 39.3  |      |
|                    | Minimum | 17    | 15    | 17    | 26    | 27    | 32    | 26    | 20    | 17    | 20    | 22    | 28    | 18    | 7     | 10    | 8     | 17    | 24    | 31    | 26    | 9     | 12    | 15    | 26    | 23    | 28    | 24    | 31    | 28    | 19    | 28    | 21.0  |      |
| Harrisburg.....    | Maximum | 31    | 41    | 46    | 51    | 40    | 40    | 35    | 29    | 41    | 42    | 45    | 40    | 37    | 34    | 28    | 30    | 45    | 40    | 41    | 40    | 30    | 26    | 39    | 42    | 34    | 52    | 56    | 47    | 44    | 38    | 42    | 39.5  |      |
|                    | Minimum | 22    | 17    | 21    | 37    | 36    | 33    | 28    | 23    | 20    | 33    | 38    | 38    | 36    | 35    | 31    | 25    | 32    | 35    | 36    | 33    | 21    | 33    | 31    | 32    | 40    | 48    | 46    | 38    | 35    | 26    | 34.6  |       |      |
| Hawley.....        | Maximum | 30    | 33    | 43    | 44    | 37    | 36    | 26    | 30    | 33    | 38    | 38    | 36    | 35    | 31    | 25    | 32    | 35    | 38    | 35    | 36    | 33    | 21    | 33    | 31    | 32    | 40    | 48    | 46    | 38    | 35    | 34    | 34.6  |      |
|                    | Minimum | 11    | -5    | 1     | 24    | 22    | 25    | 18    | 7     | -1    | 26    | 11    | 19    | 16    | 2     | 7     | 2     | 17    | 20    | 19    | 13    | 19    | 5     | -1    | 18    | 15    | 27    | 13    | 28    | 18    | 12    | 15    | 14.5  |      |
| Huntingdon.....    | Maximum | 32    | 47    | 49    | 54    | 45    | 41    | 36    | 30    | 41    | 42    | 46    | 44    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVI.

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No. 2

GENERAL SUMMARY.

February was an unusually pleasant and agreeable winter month. The temperatures averaged well above the normal without the usual extremes. Last year the highest February temperature for the State was 80°, and the lowest was 18° below zero. This year the highest was 66°, and the lowest was 16° below zero. The maximum temperature was recorded at most stations on the 28th, while the minima occurred on the 3d or the 11th. There was no general cold wave during the month. The precipitation averaged exactly two-thirds of the February normal, and had the effect of further intensifying the water shortage. The moisture was generally enough to keep the top soil in good condition, but it did not penetrate deeply enough to help the wells and springs. Ponds and small streams were replenished to some extent. Most of the precipitation occurred during the middle portion of the month, there being very little in the first six days or during the last week. In the southeastern counties the precipitation was mostly in the form of rain, the snowfall being very light. The fields were bare of snow cover the greater portion of the month. There was not much frost in the ground, especially across the southern half of the State, and a large amount of plowing was done. Outdoor work of all kinds made fair to good progress. The temperatures were high enough a large part of the time to permit concrete construction. The winter grains were mostly reported as being poor to fair. A large acreage was sown so late last autumn that the grain did not become well rooted before cold weather stopped its growth. Some early sown fields were in fairly good condition, but the ground was so dry that most of the early seedings came up spotted.

TEMPERATURE.

The mean temperature for the State, as deduced from observations taken at 88 stations, was 31.9°, which is 3.8° in excess of the February normal. The highest monthly mean was 37.4°, at Philadelphia Weather Bureau, and the lowest was 21.8°, at Montrose. Extremes of temperature for the month ranged from a maximum of 66° at Claysville, Donora and Uniontown on the 28th, to a minimum of -16° at Hawley on the 11th. The greatest daily range of temperature was 54° at Genesee on the 3d.

PRECIPITATION.

The average precipitation for the State, as determined from reports of 142 well-distributed stations, was 1.98 inches, which is 0.99 inch less than the normal for the month. The greatest monthly amount was 3.61 inches at Elk Lick, while Erie, with 0.87 inch, reported the smallest total. The greatest amount recorded in any 24 consecutive hours was 1.40 inches at New Park on the 9th. Snowfall for the month averaged 5.2 inches, which is less than half the normal February total of 10.9 inches. The greatest monthly snowfall was 23.4 inches at Pleasant Mount, and the greatest 24-hour snowfall was 9.0 inches, at Hawley on the 9th.

SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | * Highest | Direction |
| Erie.....         | 106.7                   | 296.6                    | 36                     | 82               | 76       | 79      | 6,964                    | 10.4                        | 32        | sw.       |
| Harrisburg.....   | 159.2                   | 299.7                    | 53                     | 68               | 56       | 58      | 4,140                    | 6.2                         | 25        | nw.       |
| Philadelphia..... | 183.8                   | 299.7                    | 61                     | 64               | 50       | 55      | 8,843                    | 13.2                        | 34        | nw.       |
| Pittsburgh.....   | 122.3                   | 298.2                    | 41                     | 82               | 72       | 71      | 5,304                    | 7.9                         | 27        | sw.       |
| Reading.....      | 177.5                   | 299.7                    | 59                     | 74               | 57       | 64      | 4,098                    | 6.1                         | 23        | nw.       |
| Scranton.....     | 145.7                   | 298.2                    | 49                     | 81               | 67       | 68      | 4,066                    | 6.1                         | 22        | nw.       |

\* For any five-minute period.

† By 3-cup anemometer.

COMPARATIVE DATA FOR FEBRUARY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888..... | 28.4        | 63      | -31    | 2.50          | 4.97     | 0.89  | 7           | 11            | 11     | 9                      |
| 1889..... | 23.0        | 60      | -27    | 1.96          | 3.87     | 0.97  | 7           | 9             | 12     | 9                      |
| 1890..... | 37.0        | 79      | 0      | 4.32          | 6.39     | 2.28  | 6           | 8             | 14     | 11                     |
| 1891..... | 34.8        | 70      | -7     | 4.61          | 8.29     | 2.13  | 6           | 8             | 14     | 12                     |
| 1892..... | 31.6        | 62      | -18    | 1.75          | 4.48     | 0.43  | 7           | 7             | 15     | 9                      |
| 1893..... | 27.3        | 60      | -16    | 5.92          | 9.28     | 2.92  | 6           | 8             | 14     | 14                     |
| 1894..... | 27.6        | 64      | -24    | 3.53          | 5.59     | 1.62  | 8           | 9             | 11     | 11                     |
| 1895..... | 20.2        | 60      | -26    | 1.22          | 3.47     | 0.17  | 10          | 10            | 8      | 5                      |
| 1896..... | 29.4        | 65      | -21    | 4.90          | 9.08     | 1.94  | 9           | 7             | 13     | 11                     |
| 1897..... | 30.6        | 67      | -14    | 3.28          | 6.67     | 1.04  | 7           | 8             | 13     | 9                      |
| 1898..... | 29.4        | 72      | -16    | 2.23          | 4.05     | 0.96  | 8           | 8             | 12     | 9                      |
| 1899..... | 22.7        | 67      | -39    | 4.05          | 10.22    | 0.98  | 8           | 7             | 13     | 12                     |
| 1900..... | 27.1        | 81      | -17    | 4.22          | 7.75     | 1.00  | 8           | 6             | 14     | 11                     |
| 1901..... | 21.7        | 57      | -22    | 0.96          | 2.75     | 0.27  | 10          | 9             | 9      | 8                      |
| 1902..... | 23.9        | 64      | -24    | 3.99          | 7.43     | 0.45  | 9           | 7             | 12     | 10                     |
| 1903..... | 30.5        | 68      | -17    | 4.49          | 6.13     | 1.30  | 10          | 7             | 11     | 10                     |
| 1904..... | 21.8        | 68      | -27    | 2.41          | 4.80     | 0.92  | 10          | 7             | 12     | 11                     |
| 1905..... | 20.8        | 59      | -25    | 1.70          | 2.83     | 0.44  | 10          | 8             | 10     | 8                      |
| 1906..... | 28.0        | 79      | -21    | 1.70          | 3.80     | 0.36  | 12          | 7             | 9      | 7                      |
| 1907..... | 22.8        | 56      | -20    | 1.91          | 4.37     | 0.66  | 12          | 7             | 9      | 8                      |
| 1908..... | 24.8        | 64      | -29    | 4.65          | 8.15     | 2.51  | 10          | 7             | 12     | 11                     |
| 1909..... | 35.8        | 73      | -9     | 4.84          | 9.86     | 2.40  | 6           | 7             | 15     | 14                     |
| 1910..... | 26.6        | 65      | -22    | 3.59          | 5.39     | 1.41  | 9           | 7             | 12     | 11                     |
| 1911..... | 31.0        | 66      | -8     | 2.27          | 3.76     | 0.85  | 7           | 6             | 15     | 10                     |
| 1912..... | 23.7        | 69      | -27    | 2.20          | 4.05     | 0.37  | 11          | 8             | 10     | 8                      |
| 1913..... | 27.4        | 67      | -9     | 1.84          | 4.61     | 0.88  | 12          | 5             | 11     | 9                      |
| 1914..... | 21.8        | 65      | -27    | 2.78          | 6.20     | 1.30  | 11          | 6             | 11     | 10                     |
| 1915..... | 33.3        | 73      | -9     | 3.90          | 6.95     | 1.85  | 9           | 5             | 14     | 9                      |
| 1916..... | 25.7        | 67      | -22    | 3.08          | 5.86     | 1.30  | 8           | 7             | 14     | 12                     |
| 1917..... | 25.6        | 68      | -29    | 1.46          | 3.37     | 0.35  | 9           | 9             | 10     | 10                     |
| 1918..... | 28.2        | 69      | -34    | 2.46          | 4.82     | 0.55  | 10          | 8             | 10     | 9                      |
| 1919..... | 32.0        | 66      | -7     | 2.23          | 4.27     | 1.03  | 12          | 6             | 10     | 11                     |
| 1920..... | 25.6        | 62      | -20    | 2.44          | 5.23     | 0.70  | 9           | 8             | 12     | 11                     |
| 1921..... | 32.8        | 76      | -15    | 2.59          | 4.79     | 1.41  | 8           | 8             | 12     | 10                     |
| 1922..... | 33.0        | 74      | -19    | 1.99          | 3.61     | 0.67  | 9           | 9             | 10     | 10                     |
| 1923..... | 24.6        | 58      | -20    | 2.16          | 4.80     | 0.65  | 8           | 8             | 12     | 12                     |
| 1924..... | 26.9        | 70      | -25    | 2.94          | 5.16     | 1.27  | 11          | 7             | 11     | 10                     |
| 1925..... | 35.6        | 71      | -11    | 2.16          | 4.61     | 0.55  | 11          | 7             | 10     | 8                      |
| 1926..... | 28.7        | 65      | -13    | 4.06          | 7.29     | 1.34  | 7           | 6             | 15     | 12                     |
| 1927..... | 35.0        | 69      | -8     | 3.48          | 5.94     | 1.25  | 7           | 8             | 13     | 13                     |
| 1928..... | 30.3        | 65      | -11    | 3.42          | 5.39     | 1.62  | 10          | 7             | 12     | 11                     |
| 1929..... | 28.0        | 69      | -20    | 2.87          | 5.17     | 1.36  | 10          | 8             | 10     | 9                      |
| 1930..... | 35.1        | 80      | -18    | 2.69          | 4.88     | 0.93  | 9           | 6             | 13     | 11                     |
| 1931..... | 31.9        | 66      | -16    | 1.98          | 3.61     | 0.87  | 11          | 5             | 12     | 9                      |

RIVER CONDITIONS

| Stations          | Rivers            | Mean stage |       | Highest stage |       | Lowest stage |       | Flood stage |       |
|-------------------|-------------------|------------|-------|---------------|-------|--------------|-------|-------------|-------|
|                   |                   | Date       | Stage | Date          | Stage | Date         | Stage | Date        | Stage |
| Port Jervis.....  | Delaware.....     | 2.5        | 3.3   | 21            | 1.7   | 18           | 18    |             |       |
| Phillipsburg..... | Delaware.....     | 2.5        | 4.5   | 18            | 1.1   | 16           | 22    |             |       |
| Mauch Chunk.....  | Lehigh.....       | 1.1        | 1.8   | 18            | 0.7   | 5            | 17    |             |       |
| Wilkes-Barre..... | Susquehanna.....  | 2.7        | 5.0   | 22            | 1.5   | 3            | 20    |             |       |
| Williamsport..... | Susquehanna.....  | 2.6        | 2.6   | 22            | -0.2  | 8            | 20    |             |       |
| Harrisburg.....   | Susquehanna.....  | 3.8        | 4.5   | 20            | 3.2   | 3            | 17    |             |       |
| Greensboro.....   | Monongahela.....  | 13.5       | 17.3  | 20            | 11.5  | 8            | 30    |             |       |
| West Newton.....  | Youghiogheny..... | 1.8        | 3.8   | 15            | 0.5   | 8            | 20    |             |       |
| Lock No. 4.....   | Monongahela.....  | 15.2       | 18.7  | 20            | 13.0  | 9            | 31    |             |       |
| Pittsburgh.....   | Ohio.....         | 11.9       | 14.4  | 21            | 10.3  | 7            | 25    |             |       |
| Beaver Dam.....   | Ohio.....         | 8.8        | 12.2  | 21            | 7.0   | 7            | 30    |             |       |



## Climatological Data for February, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |      |                  |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |                 |                             |               |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|------|------------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|-----------------|-----------------------------|---------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date | Lowest           | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy      | Cloudy                      |               |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |      |                  |      |                          |       |                           |                      |                           |                              |       |                              |           |                 |                             |               |
| Allentown          | Lehigh       | 254             | 19                      | 30.9                         |                           | 54              | 28   | 10               | 1†   | 32                       | 2.15  | -0.96                     | 0.81                 | 3.6                       | 8                            | 19    | 3                            | 6         | nw.             | John A. Frick.              |               |
| Altoona            | Blair        | 1,615           | 44                      | 32.2                         | +5.0                      | 56              | 28   | 8                | 11   | 36                       | 1.91  | -0.30                     | 0.62                 | 5.1                       | 8                            | 18    | 4                            | 6         | w.              | F. E. Rooney.               |               |
| Arendtsville       | Adams        | 700             | 9                       | 33.5                         |                           | 57              | 28   | 13               | 3    | 35                       | 1.59  |                           | 0.60                 | 3.4                       | 8                            | 13    | 8                            | 7         | w.              | Dr. S. W. Frost.            |               |
| Bellefonte         | Center       | 1,050           | 23                      | 30.0                         | +2.7                      | 54              | 28   | -14              | 11   | 46                       | 1.59  | -0.83                     | 0.51                 | 8.8                       | 9                            | 9     | 6                            | 13        | sw.             | U. S. Weather Bureau.       |               |
| Bethlehem          | Northampton  | 364             | 46                      | 33.1                         | +2.0                      | 56              | 28   | 10               | 3    | 29                       | 1.72  | -1.64                     | 0.63                 | 3.3                       | 10                           | 15    | 1                            | 12        | nw.             | Lehigh University.          |               |
| Carlisle           | Cumberland   | 467             | 65                      | 34.6                         | +2.1                      | 59              | 28   | 10               | 3    | 42                       | 1.92  | -1.15                     | 0.90                 | 5.0                       | 10                           | 14    | 2                            | 12        | ne.             | Prof. C. E. Miller.         |               |
| Catawissa          | Columbia     | 520             | 35                      | 32.2                         | +2.6                      | 57              | 28   | -5               | 11   | 38                       | 1.46  | -1.23                     | 0.50                 | 6.0                       | 5                            | 16    | 1                            | 11        |                 | W. L. Gearhart.             |               |
| Center Hall        | Center       | 1,272           | 35                      | 29.6                         | +2.3                      | 60              | 28   | 0                | 11   | 36                       | 1.80  | -0.66                     | 0.55                 | 7.5                       | 6                            | 15    | 3                            | 10        |                 | S. W. Smith.                |               |
| Chambersburg       | Franklin     | 580             | 32                      | 36.2                         | +4.8                      | 60              | 28   | 15               | 11   | 37                       | 1.64  | -1.23                     | 0.83                 | 1.1                       | 9                            | 9     | 9                            | 10        | nw.             | William B. Spear.           |               |
| Clearfield         | Clearfield   | 1,120           | 24                      | 33.4 <sup>a</sup>            | +5.0                      | 61 <sup>a</sup> | 28   | 0                | 11   | 45 <sup>a</sup>          | 1.86  | -0.87                     | 0.50                 | 14.0                      | 9                            | 14    | 7                            | 7         | w.              | E. W. Hess.                 |               |
| Coatesville        | Chester      | 380             | 44                      | 34.2                         | +3.8                      | 61              | 28   | 13               | 3    | 29                       | 1.92  | -2.04                     | 0.93                 | 0.8                       | 7                            | 14    | 3                            | 11        | sw.             | Howard L. Pyle.             |               |
| Colebrook          | Lebanon      | 560             | 20                      | 32.3                         | +2.0                      | 53              | 28   | 9                | 5    | 35                       | 1.57  | -1.49                     | 0.82                 | 2.0                       | 9                            | 15    | 2                            | 11        | nw.             | Wm. A. Rorer.               |               |
| Emporium           | Cameron      | 1,050           | 44                      | 30.4                         | +4.8                      | 55              | 25   | -3               | 11   | 41                       | 2.10  | -0.90                     | 0.52                 | 4.8                       | 9                            | 10    | 6                            | 12        | w.              | T. B. Lloyd.                |               |
| Ephrata            | Lancaster    | 380             | 39                      | 35.2                         | +5.5                      | 55              | 28   | 15               | 15   | 3†                       | 31    | 1.37                      | -1.72                | 0.67                      | 1.6                          | 6     | 15                           | 2         | 11              | w.                          | Ira J. Keath. |
| Freeland           | Luzerne      | 1,970           | 38                      | 27.2                         | +2.5                      | 53              | 28   | 1                | 11   | 36                       | 2.28  | -0.92                     | 0.62                 | 17.2                      | 13                           | 9     | 7                            | 12        | nw.             | Theo. Reichmann.            |               |
| George School      | Bucks        | 190             | 25                      | 34.7                         | +3.5                      | 58              | 28   | 12               | 3    | 31                       | 1.88  | -1.21                     | 0.86                 | 1.3                       | 8                            | 15    | 3                            | 10        | nw.             | Prof. N. W. Swayne          |               |
| Gettysburg         | Adams        | 553             | 58                      | 35.8                         | +4.7                      | 56              | 28   | 15               | 3    | 32                       | 1.63  | -1.18                     | 0.91                 | 0.9                       | 8                            | 13    | 2                            | 13        | nw.             | Dr. Henry Stewart           |               |
| Gordon             | Schuylkill   | 840             | 27                      | 30.2                         | +3.2                      | 54              | 28   | 0                | 11   | 40                       | 1.92  | -1.45                     | 0.53                 | 9.0                       | 8                            | 16    | 0                            | 12        | w.              | Capt. J. G. Johnson         |               |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 22.6                         |                           | 45              | 28   | -13              | 3    | 44                       | 1.87  | -1.23                     | 0.51                 | 8.7                       | 9                            | 14    | 3                            | 11        | nw.             | Gustav Holtz.               |               |
| Hamburg            | Berks        | 535             | 38                      | 32.6                         | +3.4                      | 54              | 28   | 8                | 3    | 34                       | 1.79  | -1.62                     | 0.45                 | 4.0                       | 9                            | 16    | 6                            | 6         | w.              | State Sanatorium.           |               |
| Hanover            | York         | 600             | 27                      | 36.8                         | +3.9                      | 59              | 28   | 16               | 11   | 33                       | 1.65  | -1.03                     | 0.76                 | 1.0                       | 9                            | 14    | 2                            | 12        | n.              | Thomas Y. Cooper.           |               |
| Harrisburg         | Dauphin      | 361             | 62                      | 35.0                         | +4.8                      | 55              | 28   | 15               | 11   | 29                       | 1.44  | -1.52                     | 0.73                 | 2.8                       | 10                           | 14    | 2                            | 12        | nw.             | U. S. Weather Bureau.       |               |
| Hawley             | Wayne        | 900             | 13                      | 26.2                         | -0.2                      | 52              | 28   | -16              | 11   | 47                       | 2.56  | -0.43                     | 0.75                 | 22.4                      | 10                           | 13    | 5                            | 10        | w.              | Mrs. Della M. Pennell.      |               |
| Holtwood           | Lancaster    | 200             | 16                      | 34.2                         | +1.1                      | 50              | 17†  | 16               | 3    | 27                       | 1.75  | -0.93                     | 0.48                 | 1.0                       | 8                            | 12    | 6                            | 10        |                 | H. W. Lowy, C. E.           |               |
| Huntingdon         | Huntingdon   | 650             | 44                      | 33.0                         | +3.8                      | 58              | 28   | 2                | 11   | 42                       | 2.06  | -0.79                     | 0.75                 | 3.5                       | 9                            | 10    | 6                            | 12        | nw.             | Prof. Paul R. Yoder.        |               |
| Hyndman            | Bedford      | 977             | 19                      | 35.2                         | +3.7                      | 60              | 28   | 14               | 3†   | 42                       | 1.72  | -0.96                     | 0.98                 | 0.1                       | 8                            | 9     | 1                            | 18        |                 | Horace A. Sheavly.          |               |
| Lancaster          | Lancaster    | 255             | 44                      | 32.0                         | +1.0                      | 52              | 28   | 10               | 3†   | 35                       | 1.65  | -1.04                     | 0.91                 | 1.0                       | 6                            | 16    | 1                            | 11        | nw.             | Supt. of Water Works.       |               |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 26.6 <sup>d</sup>            | +2.1                      | 50 <sup>d</sup> | 28   | -15 <sup>d</sup> | 11   | 50 <sup>d</sup>          | 1.85  | +0.02                     | 0.80                 | 14.0                      | 6                            | 11    | 5                            | 12        |                 | C. P. Darling.              |               |
| Lebanon            | Lebanon      | 469             | 47                      | 34.6                         | +5.0                      | 55              | 28   | 12               | 11   | 31                       | 1.48  | -1.86                     | 0.75                 | 1.0                       | 12                           | 15    | 6                            | 7         | nw.             | S. B. Benzing.              |               |
| Lewisburg          | Union        | 450             | 55                      | 32.3                         | +5.0                      | 54              | 28   | -3               | 11   | 34                       | 2.12  | -0.71                     | 0.60                 | 6.5                       | 10                           | 14    | 3                            | 11        | w.              | Prof. W. G. Owens.          |               |
| Lock Haven         | Clinton      | 560             | 41                      | 32.7                         | +4.7                      | 50              | 27†  | -2               | 11   | 38                       | 1.56  | -1.22                     | 0.36                 | 2.0                       | 8                            | 11    | 6                            | 11        | ne.             | Joseph Beaver.              |               |
| Lykens             | Dauphin      | 680             | 16                      | 32.6                         | +1.9                      | 55              | 28   | 3                | 3    | 42                       | 1.59  | -1.17                     | 0.31                 | 4.5                       | 12                           | 17    | 4                            | 7         | nw.             | Susquehanna Collieries Co.  |               |
| Marcus Hook        | Delaware     | 50              | 4                       |                              |                           | 59†             | 28   | 17 <sup>s</sup>  | 12   | 29†                      | 1.87  |                           | 0.75                 | 0.9                       | 5                            | 16    | 7                            | 5         | nw.             | Sun Oil Co.                 |               |
| Mauch Chunk        | Carbon       | 600             | 42                      | 31.8 <sup>t</sup>            | +4.0                      | 58              | 28   | 6 <sup>d</sup>   | 3    | 35 <sup>d</sup>          | 2.12  | -1.62                     | 0.79                 | 8.2                       | 7                            | 14    | 2                            | 12        | n.              | R. K. Wintermute.           |               |
| Mifflintown        | Juniata      | 445             | 27                      | 32.9                         | +4.1                      | 55              | 28   | 10               | 11   | 36                       | 1.47  | -0.96                     | 0.63                 | 3.7                       | 10                           | 15    | 1                            | 12        | w.              | Wellington Smith.           |               |
| Montrose           | Susquehanna  | 1,720           | 27                      | 21.8                         | -0.4                      | 44              | 18   | -9               | 3    | 41                       | 1.00  | -1.00                     | 0.20                 | 10.0                      | 6                            | 8     | 7                            | 13        | w.              | Silas Jagger.               |               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 26.8                         | +5.5                      | 40              | 17   | -2               | 3    | 34                       | 1.65  | -1.32                     | 0.60                 | 12.5                      | 8                            | 7     | 3                            | 18        | nw.             | Cecil J. Hoskinson.         |               |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 27.2                         | +0.8                      | 50              | 17†  | -7               | 11   | 37                       | 2.05  | -0.42                     | 0.33                 | 9.0                       | 9                            | 14    | 4                            | 10        | nw.             | H. O. Hacker.               |               |
| Narberth           | Montgomery   | 300             | 12                      | 32.6                         | -0.6                      | 54              | 28   | 11               | 3†   | 28                       | 2.01  | -1.38                     | 1.08                 | 2.2                       | 10                           | 14    | 5                            | 9         | nw.             | Charles Decker.             |               |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 32.6                         | +1.9                      | 58              | 28   | 10               | 1†   | 40                       | 2.04  | -1.41                     | 0.96                 | 1.0                       | 8                            | 14    | 1                            | 13        | n.              | North Springfield Water Co. |               |
| Palmerston         | Carbon       | 398             | 13                      | 31.0                         |                           | 52              | 28   | 7                | 3†   | 31                       | 1.54  | -0.69                     | 0.65                 | 6.7                       | 8                            | 11    | 6                            | 11        | n.              | New Jersey Zinc Co.         |               |
| Philadelphia       | Philadelphia | 114             | 60                      | 37.4                         | +3.5                      | 55              | 28   | 18               | 11   | 25                       | 1.92  | -1.40                     | 1.19                 | 1.1                       | 8                            | 10    | 7                            | 11        | nw.             | U. S. Weather Bureau.       |               |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 36.6                         |                           | 56              | 28   | 16               | 11   | 25                       | 1.74  |                           | 1.09                 | 1.8                       | 7                            | 11    | 7                            | 6         |                 | Julius Bernstein.           |               |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 35.2                         | +1.5                      | 53              | 28   | 16               | 11   | 26                       | 1.76  | -1.60                     | 0.89                 | 1.5                       | 7                            |       |                              |           |                 | Commandant, Navy Yard.      |               |
| Phoenixville       | Chester      | 100             | 21                      | 35.5                         | +3.2                      | 57              | 28   | 14               | 3    | 30                       | 2.03  | -1.27                     | 0.85                 | 1.4                       | 6                            | 13    | 8                            | 7         | w.              | North Springfield Water Co. |               |
| Quakertown         | Bucks        | 496             | 46                      | 32.2                         | +3.4                      | 54              | 28   | 8                | 3    | 30                       | 1.44  | -2.20                     | 0.80                 | 1.8                       | 8                            | 12    | 5                            | 11        | nw.             | John E. Benner.             |               |
| Reading            | Berks        | 325             | 59                      | 35.4                         | +6.6                      | 55              | 28   | 15               | 11   | 28                       | 1.90  | -1.52                     | 0.71                 | 1.6                       | 9                            | 13    | 4                            | 11        | n.              | U. S. Weather Bureau.       |               |
| Scranton           | Lackawanna   | 805             | 37                      | 29.4                         | +2.1                      | 52              | 28   | 2                | 3    | 37                       | 1.45  | -1.59                     | 0.60                 | 11.8                      | 10                           | 7     | 9                            | 12        | n.              | U. S. Weather Bureau.       |               |
| Selinsgrove        | Snyder       | 455             | 41                      | 32.6                         | +4.5                      | 54              | 28   | -3               | 11   | 37                       | 1.94  | -0.97                     | 0.62                 | 1.5                       | 10                           | 12    | 4                            | 12        | sw.             | Dr. George E. Fisher.       |               |
| Shawmont           | Philadelphia | 51              | 35                      | 34.8                         |                           | 54              | 28   | 15               | 8†   | 29                       | 1.71  | -1.56                     | 0.77                 | 1.2                       | 7                            | 13    | 7                            | 8         | nw.             | W. S. Guiles.               |               |
| State College      | Center       | 1,217           | 47                      | 31.8                         | +5.3                      | 54              | 28   | 4                | 11   | 32                       | 1.96  | -0.78                     | 0.56                 | 6.5                       | 10                           | 10    | 8                            | 16        | w.              | C. A. Kern.                 |               |
| Stroudsburg        | Monroe       | 500             | 17                      | 28.2                         | +1.0                      | 54              | 28   | -7               | 11   | 46                       | 2.63  | -0.36                     | 0.92                 | 8.3                       | 6                            | 11    | 2                            | 15        | nw.             | State Normal School.        |               |
| Towanda            | Bradford     | 754             | 37                      | 27.2                         | +2.4                      | 46              | 17   | -5               | 3    | 42                       | 1.90  | -0.09                     | 0.40                 | 13.3                      | 12                           | 10    | 6                            | 12        | e.              | Hiram E. Bull, C. E.        |               |
| Wellsboro          | Tioga        | 1,419           | 61                      | 27.7                         | +2.7                      | 55              | 28   | -13              | 11   | 51                       | 1.90  | -0.38                     | 0.45                 | 13.5                      | 10                           | 15    | 6                            | 7         | w.              | George W. Hill.             |               |
| West Chester       | Chester      | 455             | 82                      | 34.6                         | +3.5                      | 52              | 16   | 14               | 3†   | 26                       | 2.17  | -1.64                     | 1.9                  | 7                         | 12                           | 9     | 7                            | n.        | Joseph W. Belt. |                             |               |
| Williamsport       | Lycoming     | 521             | 45                      | 31.4                         | +3.7                      | 50              | 25   | 3                | 11   | 31                       | 2.05  | -0.55                     | 0.35                 | 11.8                      | 9                            | 15    | 1                            | 12        | se.             | Miss Veronica E. April.     |               |
| York               | York         | 400             | 43                      | 35.0                         | +4.0                      | 62              | 28   | 12               | 3    | 43                       | 1.32  | -1.57                     | 0.76                 | 1.0                       | 8                            | 15    | 3                            | 10        | w.              | York Water Co.              |               |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |      |                  |      |                          |       |                           |                      |                           |                              |       |                              |           |                 |                             |               |
| Beaver Dam         | Beaver       | 700             | 39                      | 34.1                         | +1.3                      | 60              | 28   | 8                | 11   | 39                       | 1.93  | -0.47                     | 0.51                 | 4.1                       | 12                           | 7     | 4                            | 17        | sw.             | U. S. Engineer.             |               |
| Bradford           | McKean       | 1,460           | 12                      | 28.0                         | +1.5                      | 54              | 28   | -2               | 1†   | 42                       | 1.68  | -0.95                     | 0.50                 | 3.5                       | 10                           | 7     | 6                            | 15        | nw.             | Supt. Timber Pres. Plant.   |               |
| Brookville         | Jefferson    | 1,173           | 41                      | 28.4                         | +3.1                      | 60              | 28   | -1               | 10   | 46                       | 2.22  | -0.18                     | 0.48                 | 4.5                       | 9                            | 16    | 0                            | 12        |                 | John Fawcett.               |               |
| Butler             | Butler       | 1,152           | 17                      | 32.4                         |                           | 62              | 28   | 4                | 11   | 46                       | 2.34  | -0.08                     | 0.75                 | 8.8                       | 10                           | 7     | 13                           | 8         | w.              | William C. Faust.           |               |
| Chambersville      | Indiana      | 1,047           | 1                       |                              |                           |                 |      |                  |      |                          |       |                           |                      |                           |                              |       |                              |           |                 | John E. Lewis               |               |



Daily Precipitation for February, 1931

| Stations           | Drainage Basin | Day of month |     |     |    |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    | Total |
|--------------------|----------------|--------------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-------|
|                    |                | 1            | 2   | 3   | 4  | 5  | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17   | 18  | 19  | 20  | 21  | 22  | 23  | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |       |
| Atlantic Drainage. |                |              |     |     |    |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |       |
| Allentown          | Lehigh         |              |     |     |    |    |     |     | .31 | .18 | .73 |     | .01 |     | .08 |     |     |      | .81 | T.  | .02 | .01 | T.  |     |    |    |    |    |    |    |    |    | 2.15  |
| Altoona            | Juniata        |              |     |     |    |    | .25 | T.  | .62 | .03 |     |     | .25 |     |     |     |     | .13  | .18 | .30 | .15 |     |     |     |    |    |    |    |    |    |    |    | 1.91  |
| Ansonia            | W. Br. Susq.   |              | .01 | T.  |    |    |     |     | .15 | .12 | .15 |     |     |     | .35 |     |     |      | .28 | .26 | .29 | .08 |     |     |    |    |    |    |    |    |    |    | 1.69  |
| Arendtsville       | Lower Susq.    |              |     |     |    |    | .13 | .20 | .60 |     |     |     |     | .06 |     |     |     | .30  | .25 | .01 | .04 |     |     |     |    |    |    |    |    |    |    |    | 1.59  |
| Baker's Summit     | Juniata        |              |     |     |    |    | .27 |     | .94 |     |     |     | .22 |     |     |     |     | .22  | .31 | .25 |     |     |     |     |    |    |    |    |    |    |    |    | 2.31  |
| Bellefonte         | W. Br. Susq.   | T.           | T.  |     | T. |    | .18 | .01 | .51 | T.  | T.  | T.  | .19 | T.  | T.  | T.  |     | .29  | .05 | .21 | .15 | .01 | T.  |     |    |    |    |    |    |    |    |    | 1.59  |
| Bethlehem          | Lehigh         |              |     |     |    |    | .03 | .25 | .50 | .05 |     |     | T.  |     | .11 |     |     | .11  | .63 | .01 | .02 | .01 |     |     |    |    |    |    |    |    |    |    | 1.72  |
| Blossville         | Lower Susq.    |              |     |     |    |    | .05 |     | .40 |     |     |     |     | .05 |     |     |     | .22  | .05 | .27 |     |     |     |     |    |    |    |    |    |    |    |    | 1.04  |
| Carlisle           | Lower Susq.    |              |     |     |    |    | .08 | .06 | .90 | .10 |     |     |     |     | .02 |     |     | .34  | .08 | .19 | .13 | .02 |     |     |    |    |    |    |    |    |    |    | 1.92  |
| Catawissa          | N. Br. Susq.   |              |     |     |    |    | .38 | T.  | .40 |     |     | T.  |     |     |     |     |     | .50  |     | .08 | .10 |     |     |     |    |    |    |    |    |    |    |    | 1.46  |
| Center Hall        | Susquehanna    |              |     |     |    |    | .18 |     | .45 |     |     |     |     |     |     | .18 |     | .20  |     | .55 | .24 |     |     |     |    |    |    |    |    |    |    |    | 1.80  |
| Chambersburg       | Potomac        |              | T.  |     |    |    | .11 | .10 | .83 |     |     |     | .09 |     |     |     |     | .20  | .11 | .14 | .03 | .03 |     |     |    |    |    |    |    |    |    |    | 1.64  |
| Clearfield         | W. Br. Susq.   |              |     |     |    |    | .10 | .45 | .50 | .03 |     | .02 |     |     |     | .30 | T.  | .20  | .24 | .02 | T.  | T.  |     |     |    |    |    |    |    |    |    |    | 1.86  |
| Coatesville        | Lower Del.     |              |     |     |    |    | .08 | .02 | .93 |     |     | T.  | .07 | .10 |     |     |     | .66  | .06 |     | T.  | T.  |     |     |    |    |    |    |    |    |    |    | 1.92  |
| Colebrook          | Lower Susq.    |              | T.  |     |    |    | .16 | .02 | .82 | T.  |     |     | T.  | .04 |     |     |     | .42  | .04 | .05 | .01 | .01 |     |     |    |    |    |    |    |    |    |    | 1.57  |
| Conshohocken       | Schuylkill     |              |     |     |    |    | .08 | .07 | .99 | .20 |     |     | T.  | .05 |     | .01 |     | .50  | .08 | .02 |     | T.  | T.  |     |    |    |    |    |    |    |    |    | 2.00  |
| Cresson            | Juniata        |              |     |     |    |    | .10 | .17 | .72 |     |     |     |     | .41 |     |     |     | .18  | .14 | .26 | .18 |     |     |     |    |    |    |    |    |    |    |    | 2.16  |
| Doylestown         | Lower Del.     |              |     |     |    |    | .12 | .23 | .95 |     |     |     |     | .10 |     |     |     | .25  | .36 | .03 |     |     |     |     |    |    |    |    |    |    |    |    | 2.04  |
| Driftwood          | W. Br. Susq.   |              | T.  |     |    |    | .30 | .38 | .08 |     |     |     | .50 | .04 |     |     |     | .26  |     | .27 | .30 |     |     |     |    |    |    |    |    |    |    |    | 2.13  |
| Emporium           | do.            |              | T.  |     | T. |    | .25 |     | .20 |     | T.  | .03 | .52 | .16 |     |     |     | .28  | .03 | .48 | .15 | T.  | T.  |     |    |    |    |    |    |    |    |    | 2.10  |
| Ephrata            | Lower Susq.    |              |     |     |    |    | .11 | .04 | .67 | T.  |     |     | T.  | .02 |     |     |     | .52  | T.  |     | .01 |     |     |     |    |    |    |    |    |    |    |    | 1.37  |
| Forest City        | N. Br. Susq.   |              | .10 | T.  |    |    | .22 | .17 |     |     | .23 |     | .14 |     |     |     |     | 1.35 | T.  | .07 | .09 | .03 |     |     |    |    |    | T. |    |    |    |    | 2.40  |
| Freeland           | Lehigh         |              | .01 | .01 |    |    | .40 | .21 | .62 | T.  |     | .02 | .03 | .15 |     |     |     | .51  | .02 | .20 | .08 | .02 |     |     |    |    |    |    |    |    |    |    | 2.28  |
| George School      | Lower Del.     |              |     |     |    |    | .03 | .12 | .86 | .16 |     |     |     | .04 |     |     |     | .13  | .51 | .03 | T.  | T.  |     |     |    |    |    |    |    |    |    |    | 1.88  |
| Gettysburg         | Potomac        |              |     |     |    |    | .12 | .03 | .88 |     |     |     | T.  | .05 |     |     |     | .25  | .08 | .14 | .08 | T.  |     |     |    |    |    |    |    |    |    |    | 1.63  |
| Girardville        | Lower Susq.    |              |     |     |    |    | .34 | .72 |     |     |     | .04 | .19 |     |     |     |     | .45  | .18 |     | .10 |     |     |     |    |    |    |    |    |    |    |    | 2.02  |
| Gordon             | Lower Susq.    |              |     |     |    |    | .25 | .32 | .53 |     |     |     | .17 |     |     |     |     | .15  | .32 | T.  | .10 | .08 |     |     |    |    |    |    |    |    |    |    | 1.92  |
| Gouldsboro         | Lehigh         |              | .10 |     |    |    | .18 | .09 | .38 |     |     |     |     | .35 |     |     |     | .51  | .12 |     | .10 |     |     | .04 |    |    |    |    |    |    |    |    | 1.87  |
| Graterford         | Schuylkill     |              |     |     |    |    | .04 | .16 | .04 | .03 |     |     |     | .09 |     |     |     | .18  | .55 | T.  |     |     |     |     |    |    |    |    |    |    |    |    | 1.99  |
| Hamburg            | Schuylkill     |              |     |     |    |    | .35 |     | .45 |     |     |     | .01 | .23 |     |     |     | .23  | .35 | .08 | .03 | .01 |     |     |    |    |    |    |    |    |    |    | 1.79  |
| Hanover            | Lower Susq.    |              | T.  |     |    |    | .02 | .25 | .76 |     |     |     |     | .10 |     |     |     | .27  | .10 | .08 | .06 | .01 |     |     |    |    |    |    |    |    |    |    | 1.65  |
| Harrisburg         | do.            |              |     |     |    |    | .15 | .01 | .72 |     |     | T.  | .05 | .02 |     |     |     | .32  | .05 | .05 | .06 | .01 |     |     |    |    |    |    |    |    |    |    | 1.44  |
| Hawley             | Upper Del.     |              | .07 | T.  |    |    |     | .52 | .28 | .55 |     |     |     | .07 |     |     |     | .75  | .05 | .11 | .13 | T.  | .03 |     |    |    |    |    |    |    |    |    | 2.56  |
| Hollisterville     | Upper Del.     |              | .05 |     |    |    | .49 | .31 | .46 |     |     |     |     | .14 |     |     |     | .56  | .04 | .18 | .11 | .01 | T.  |     |    |    |    |    |    |    |    |    | 2.35  |
| Holtwood           | Lower Susq.    |              |     |     |    |    | .21 | .14 | .78 |     |     |     | .02 | .04 |     |     |     | T.   | .48 | .06 | .02 | T.  | T.  |     |    |    |    |    |    |    |    |    | 1.75  |
| Huntingdon         | Juniata        |              |     |     |    |    | .23 | .02 | .75 |     |     |     | .03 | .10 |     |     |     | .09  | .22 | .39 | .23 |     |     |     |    |    |    |    |    |    |    |    | 2.06  |
| Hyndman            | Potomac        |              | T.  |     |    |    | .16 | T.  | .98 | T.  |     |     |     | .06 |     |     |     | .22  | .13 | .07 | .03 | T.  |     |     |    |    |    |    |    |    |    |    | 1.72  |
| Kylertown          | W. B. Susq.    |              |     |     |    |    | .05 | .25 | .52 |     |     | .30 | .15 |     |     | .13 |     | .12  | .27 | .44 | T.  |     |     |     |    |    |    |    |    |    |    |    | 2.23  |
| Lakeville          | Upper Del.     |              | .05 |     |    |    | .58 | .22 | .49 |     |     |     |     | .05 |     |     |     | .66  | .04 | .15 | .15 | .03 | .02 |     |    |    |    |    |    |    |    |    | 2.44  |
| Lancaster          | Lower Susq.    |              |     |     |    |    | .10 | .02 | .91 |     |     |     |     | .08 |     |     |     | .52  |     | .02 |     |     |     |     |    |    |    |    |    |    |    |    | 1.65  |
| Lansford           | Lehigh         |              |     |     |    |    |     | *   | .49 | .45 |     | T.  |     | .08 |     |     |     | .48  | T.  | .07 | .02 | T.  |     |     |    |    |    |    |    |    |    |    | 1.59  |
| Lawrenceville      | N. Br. Susq.   |              | .10 | T.  | T. |    | .30 | T.  | .35 | T.  |     | T.  | .10 |     |     |     | .20 |      | .80 |     |     |     |     |     |    |    |    |    |    |    |    |    | 1.85  |
| Lebanon            | Lower Susq.    |              | T.  |     |    |    | .03 | .04 | .75 | .01 | T.  | .02 | .01 | .09 |     |     |     | .27  | .17 | .05 | .02 | .02 |     |     |    |    |    |    |    |    |    |    | 1.48  |
| Lewisburg          | W. Br. Susq.   |              |     |     |    |    | .40 | .14 | .60 |     |     |     |     | .04 | .03 |     |     | .21  | .36 | .18 | .14 | .02 |     |     |    |    |    |    |    |    |    |    | 2.12  |
| Lloyd              | do.            |              |     |     |    |    | .21 | .08 | .38 |     |     |     |     | .23 | .03 |     |     | .20  |     | .62 | .31 |     |     |     |    |    |    |    |    |    |    |    | 2.06  |
| Lock Haven         | do.            |              |     |     |    |    | .27 |     | T.  |     |     |     |     | .06 | .20 |     |     | .13  | .36 | .33 | .16 | .05 |     |     |    |    |    |    |    |    |    |    | 1.56  |
| Lykens             | Susquehanna    |              |     |     |    |    | .08 | .06 | .81 | .05 |     | .01 | .01 | .13 |     |     |     | .05  | .24 | .08 | .05 | .02 |     |     |    |    |    |    |    |    |    |    | 1.59  |
| Marcus Hook        | Lower Del.     |              |     |     |    |    | .30 |     | .75 |     |     |     |     | .65 |     |     |     |      | .65 |     | .02 |     |     |     |    |    |    |    |    |    |    |    | 1.87  |
| Mauch Chunk        | Lehigh         |              |     |     |    |    | .39 | .05 | .79 |     |     |     |     | .18 |     |     |     | .32  | .29 |     | .10 |     |     |     |    |    |    |    |    |    |    |    | 2.12  |
| Millintown         | Juniata        |              |     |     |    |    | .15 | .05 | .63 |     |     |     | .04 | .09 |     |     |     | .20  | .05 | .12 | .12 | .02 |     |     |    |    |    |    |    |    |    |    | 1.47  |
| Montrose           | N. Br. Susq.   |              | T.  | .20 |    | T. |     | .20 | .20 | T.  |     |     |     |     |     |     |     |      |     | .20 | .10 | .10 |     |     |    |    |    |    |    |    |    |    | 1.00  |
| Morris Run         | N. Br. Susq.   |              | .05 |     | T. |    | .26 | .05 | .43 |     |     |     | .21 | .11 |     |     |     | .13  | .21 | .30 | .25 | .10 |     |     |    |    |    |    |    |    |    |    | 2.10  |
| Mount Pocono       | Upper Del.     |              |     |     |    |    | .12 | .21 | .60 | .08 |     |     |     |     |     | .30 |     | .12  | .12 | .10 |     |     |     |     |    |    |    |    |    |    |    |    | 1.65  |
| Muncy Valley       | W. Br. Susq.   |              |     |     |    |    | .13 | .14 | .58 |     |     |     | .03 | .08 |     |     |     | .33  | .33 | .08 | .35 |     |     |     |    |    |    |    |    |    |    |    | 2.05  |
| Narberth           | Lower Del.     |              |     |     |    |    | .07 | .05 | .80 | .28 |     | T.  | .01 | .11 |     |     |     | .60  | .06 | .02 | T.  | .01 |     |     |    |    |    |    |    |    |    |    | 2.01  |
| Neshaminy          | Lower Del.     |              |     |     |    |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |       |



## Daily Precipitation for February, 1931—Continued from page 8

| Stations          | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    | Total |      |      |
|-------------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|----|----|-------|------|------|
|                   |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24 | 25  | 26 | 27 | 28 | 29  | 30 | 31 |       |      |      |
| Ohio Drainage.    |                |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    |       |      |      |
| Beaver Dam\|\|\| | Ohio           |              |     |     |     |     |     | .13 | .33 | .26 | .04 |     | .05 | .05 | .46 |     |     | .04 | .36 | .16 | .04 | .01 |     |     |    |     |    |    |    |     |    |    |       | 1.93 |      |
| Beaver Falls\|\|\| | Beaver         | .03          |     |     |     |     |     | .11 | .37 | .23 | .02 |     | .05 | .03 | .46 | T   |     | .08 | .32 | .12 | .07 | T   | T   |     |    |     |    |    |    |     |    |    |       | 1.89 |      |
| Bradford          | Allegheny      |              | T   | .05 | T   |     |     | .25 | .10 | .05 |     | .05 | .02 | .50 | .05 | .02 |     | .25 | .05 | .27 |     | .02 |     |     |    |     |    |    |    |     |    |    |       | 1.68 |      |
| Brookville        | do             | T            |     |     |     |     |     | .48 |     | .37 |     | .05 | T   | .48 | .05 |     |     | .12 | .20 | .22 | .25 | T   | T   |     |    |     |    |    |    |     |    |    | 2.22  |      |      |
| Butler            | Ohio           | .03          |     |     |     |     |     | .30 |     | .47 |     |     | .09 | *   | .75 |     |     | .17 | .23 | .22 | .08 |     |     |     |    |     |    |    |    |     |    |    |       | 2.34 |      |
| Chambersville     | Allegheny      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    |       |      |      |
| Clairton†         | Monongahela    |              |     |     |     |     |     | .38 | .01 | .44 |     | T   | T   | .69 | T   |     | T   | .34 | .19 | .12 | .09 | T   |     |     |    |     |    |    |    |     |    |    |       | 2.26 |      |
| Claysville        | Ohio           |              |     |     |     |     |     | .42 | .02 | .50 |     |     | .03 | .68 | T   |     |     | .23 | .18 | .28 | .10 | .02 |     |     |    |     |    |    |    |     |    |    |       | 2.73 |      |
| Clymer††          | Conemaugh      | T            |     |     |     |     |     | .34 |     | .80 |     |     |     |     | .80 | T   | T   | .26 |     | .28 | .12 |     |     |     |    |     |    |    |    | .22 |    |    |       | 2.82 |      |
| Confluence\|\|\| | Youghiogheny   |              |     |     |     |     |     | T   | .38 | .50 | .46 | .04 | .05 |     | .36 |     |     |     | .22 | .12 | T   | .06 |     |     |    |     |    |    |    |     |    |    |       | 2.19 |      |
| Corry             | Allegheny      |              | .10 |     | .02 |     |     | .04 |     |     |     |     | .17 | .30 |     |     |     | .31 | .09 | .41 |     |     | .03 |     |    |     |    |    |    |     |    |    |       | 1.47 |      |
| Coudersport       | Allegheny      | .03          |     |     |     |     |     | .30 | .10 | .14 |     | .01 |     | .48 |     |     |     | .21 | .30 | .26 |     | .01 |     |     |    |     |    |    |    |     |    |    |       | 1.84 |      |
| Derry             | Conemaugh      |              |     |     |     |     |     | .37 | T   | .70 |     |     |     | .38 | .27 |     |     | .14 | .17 | .28 | .23 | .06 |     |     |    |     |    |    |    |     |    |    |       | 2.60 |      |
| Donora\|\|\| | Monongahela    |              | T   |     |     | T   |     | .27 |     | .65 | T   |     | .05 | .07 | .70 |     |     | .08 | .38 | .13 | .10 | .01 |     |     |    |     |    |    |    |     |    |    |       | 2.44 |      |
| Ebensburg         | Conemaugh      | T            |     |     |     |     |     | .16 | .15 | .62 |     |     | .05 | .33 | .18 | T   |     | .12 | .05 | .50 | T   | T   | T   | T   |    |     |    |    |    |     |    |    |       | 2.16 |      |
| Elk Lick          | Youghiogheny   |              |     |     |     |     |     | .50 |     | .68 | .30 | .10 |     | .75 | .30 |     |     | .44 | .24 | .10 | .20 |     |     |     |    |     |    |    |    |     |    |    |       | 3.61 |      |
| Falls Creek       | Allegheny      |              |     |     |     |     |     | .53 |     | .36 |     |     |     | .42 | .28 |     |     | .30 | .04 | .38 | .09 |     |     |     |    |     |    |    |    |     |    |    |       | 2.40 |      |
| Franklin\|\|\| | Allegheny      |              |     |     |     |     |     |     | .58 | .09 | .02 |     |     | .13 | .68 |     |     | .05 | .24 | .22 | .03 |     |     |     |    |     |    |    |    |     |    |    |       | 2.04 |      |
| Freeport\|\|\| | do             | T            |     |     |     |     |     | .01 | .43 | .37 | .12 |     | .05 | .08 | .67 | T   |     | .01 | .31 | .18 | .15 | .04 | .01 |     |    |     |    |    |    |     |    |    |       | 2.43 |      |
| Greensboro        | Monongahela    | T            |     |     |     |     |     | .05 | .15 | .63 | .29 |     |     | T   | .52 |     |     | .03 | .31 | .28 | .09 | .05 | T   |     |    |     |    |    |    |     |    |    |       | 2.40 |      |
| Greensburg        | Youghiogheny   | .01          |     |     |     |     |     | .41 | .02 | .58 | T   |     | .08 | .31 | .27 | T   | T   | .22 | .19 | .17 | .12 | .01 |     |     |    |     |    |    |    |     |    |    |       | 2.39 |      |
| Greenville        | Beaver         |              |     |     |     |     |     | .55 |     | T   |     |     | T   | .83 | .03 |     |     | .25 | .03 | .30 | T   | T   |     |     |    |     |    |    |    |     |    |    |       | 1.99 |      |
| Grove City        | do             | .01          |     |     |     |     |     | .49 | T   |     |     | .02 | .20 | .58 | .16 |     |     | .27 | .21 | .06 |     |     |     |     |    |     |    |    |    |     |    |    |       | 2.00 |      |
| Herr's Isl. Dam\|\|\| | Ohio           | .03          |     |     |     |     |     | .13 | .32 | .40 | .12 |     | .09 | .11 | .55 | T   |     | .04 | .38 | .12 | .06 | .06 | .02 |     |    |     |    |    |    |     |    |    |       | 2.43 |      |
| Ingram            | Ohio           |              |     |     |     |     |     | .50 |     | .51 |     |     | .17 | .52 | .11 |     |     | .35 | .09 | .16 | .08 | .01 |     |     |    |     |    |    |    |     |    |    |       | 2.50 |      |
| Irwin             | Youghiogheny   |              |     |     |     |     |     | .43 | .02 | .40 | T   |     | .11 | .34 | .15 |     |     | .35 | .16 | .18 | .14 | T   |     |     |    |     |    |    |    |     |    |    |       | 2.28 |      |
| Johnstown         | Conemaugh      | .02          |     |     |     |     |     | .49 | .05 | .62 |     | .02 | .08 | .35 | .09 |     |     | .20 | .10 | .08 | .07 | .15 |     |     |    |     |    |    |    |     |    |    |       | 2.32 |      |
| Kegonsa\|\|\| | Youghiogheny   | .05          |     |     |     | T   |     | .25 | .50 | .32 | T   | .09 | T   | .52 | T   |     |     | .19 | .27 | .08 | .14 | T   |     |     |    |     |    |    |    |     |    |    |       | 2.41 |      |
| Lake Lynn\|\|\| | Monongahela    |              |     |     |     |     |     | .02 | .55 | .62 |     |     | .01 |     | .52 |     |     | .01 | .30 | .08 | .05 |     |     |     |    |     |    |    |    |     |    |    |       | 2.16 |      |
| Linesville\|\|\| | Beaver         |              | T   |     |     |     |     | .05 | .49 |     |     |     | .04 | .40 | .47 | T   |     | .12 | .18 | .20 |     | T   | T   |     |    |     |    |    |    |     |    |    |       | 1.95 |      |
| Lock No. 2\|\|\| | Ohio           | T            |     |     |     |     |     | .12 | .45 | .44 | .06 |     | .07 | .13 | .50 | T   |     | .06 | .38 | .18 | .08 | T   | T   |     |    |     |    |    |    |     |    |    |       | 2.47 |      |
| Lock No. 4\|\|\| | Monongahela    |              |     |     |     |     |     | .10 | .18 | .37 | .21 |     | .06 | .02 | .62 |     |     | .05 | .32 | .18 | .17 | .06 |     |     |    |     |    |    |    |     |    |    |       | 2.34 |      |
| Lycippus          | Conemaugh      |              |     |     |     |     |     | .21 |     |     | .84 |     | .08 | .33 | .16 |     |     | .17 | .45 | .36 | .17 |     |     |     |    |     |    |    |    |     |    |    |       | 2.77 |      |
| McKeesport\|\|\| | Monongahela    |              |     |     |     |     |     | .28 | .13 | T   |     |     | T   | .80 | .05 |     |     | .25 | .04 | .25 | .03 | T   | T   |     |    |     |    |    |    |     |    |    |       | 1.87 |      |
| Meadville         | Allegheny      | .04          |     |     |     |     |     | .41 |     | .51 |     |     | .13 | .53 | .10 |     |     | .33 | .12 | .18 | .12 | T   |     |     |    |     |    |    |    |     |    |    |       | 2.43 |      |
| Mount Lebanon     | Ohio           |              |     |     |     |     |     | .04 | .41 | .35 | .12 |     | .07 | .07 | .69 |     |     | .02 | .30 | .16 | .20 | .03 | .01 |     |    |     |    |    |    |     |    |    |       | 2.48 |      |
| Natrona\|\|\| | Allegheny      | .01          |     |     |     |     |     | .06 | .43 | .23 | .02 |     | .07 | .14 | .16 | .20 |     | .18 | .27 | .34 | .05 | .01 |     | .02 |    | .01 |    |    |    |     |    |    |       | 2.23 |      |
| New Castle\|\|\| | Beaver         | T            | .01 | .01 | .01 |     |     | .07 |     | .01 |     |     | .08 | .30 |     |     | .42 | .38 | .07 |     |     |     |     |     |    |     |    |    |    |     |    |    |       | 1.79 |      |
| Newell            | Monongahela    |              |     |     |     | .20 | .07 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    |       | 2.39 |      |
| Parkers Landing\|\|\| | Allegheny      | .05          | T   |     |     |     |     | .53 | .20 | .05 | T   |     | .10 | .12 | .66 | T   |     | .08 | .32 | .22 | .06 | T   | T   |     |    |     |    |    |    |     |    |    |       |      |      |
| Pennline\|\|\|†† | Beaver         | .04          |     |     |     |     |     |     | .35 |     | T   | T   |     | .27 | .41 | T   |     | .13 | .08 | .15 |     | .02 | T   |     |    |     |    |    |    |     |    |    |       | 1.45 |      |
| Pittsburgh***     | Ohio           | T            |     |     |     |     |     | .44 | .02 | .36 |     | .02 | .15 | .44 | T   |     | .03 | .27 | .07 | .07 | .06 | T   |     |     |    |     |    |    |    |     |    |    |       |      | 1.93 |
| Punxsutawney\|\|\| | Allegheny      | T            |     |     |     |     |     |     |     | T   | .30 | .20 | T   | T   | .66 |     | T   | .30 | T   |     |     |     |     |     |    |     |    |    |    |     |    |    |       | 1.46 |      |
| Ridgway           | do             | .07          |     |     |     |     |     | .41 | .17 | .02 | T   | .05 | T   | .55 | T   |     |     | .05 | .20 | .19 | .15 |     | T   |     |    |     |    |    |    |     |    |    |       | 1.81 |      |
| Saltsburg\|\|\| | Conemaugh      | .01          |     |     |     |     |     | .01 | .29 | .30 | .19 |     | .25 | T   | .36 | T   |     | T   | .19 | .15 | T   | .02 | T   |     |    |     |    |    |    |     |    |    |       | 1.77 |      |
| Sharon\|\|\| | Beaver         |              |     |     |     |     |     | T   | T   | .45 | T   |     | .03 | .14 | .52 |     |     | T   | .32 | .18 | .02 |     |     |     |    |     |    |    |    |     |    |    |       | 1.66 |      |
| Somerset          | Youghiogheny   | T            |     |     |     |     |     | .41 | .02 | .96 | T   |     | .02 | .19 | .11 |     |     | .16 | .17 | .12 | .11 | .04 |     |     |    |     |    |    |    |     |    |    |       | 2.31 |      |
| Springdale\|\|\| | Allegheny      | .01          |     |     |     |     |     | .06 | .41 | .38 | .10 |     | .08 | .10 | .68 | .01 |     | .03 | .34 | .13 | .14 | .04 | T   |     |    |     |    |    |    |     |    |    |       | 2.51 |      |
| Uniontown         | Monongahela    |              |     |     |     |     |     | .22 | .05 | .87 |     |     | .02 | .22 | T   |     |     | .18 | .31 | .28 | .07 | .02 |     |     |    |     |    |    |    |     |    |    |       | 2.24 |      |
| Unity Reservoir†† | Youghiogheny   | T            |     |     |     |     |     | .30 | T   | .72 |     |     | .12 | .29 | .30 | T   |     | .25 | .18 | .25 | .18 |     |     |     |    |     |    |    |    |     |    |    |       | 2.59 |      |
| Vandergrift†      | Conemaugh      |              |     |     |     |     |     | .50 |     | .42 |     | .03 | .10 | .66 |     |     | .01 | .23 | .16 | .22 | .13 |     |     |     |    |     |    |    |    |     |    |    |       | 2.46 |      |
| Warren            | Allegheny      | .02          | .02 |     |     |     |     | .24 |     | .05 |     |     |     | .45 | .17 |     |     | .24 | .30 | .11 |     |     | .03 |     |    |     |    |    |    |     |    |    |       | 1.63 |      |
| Westford\|\|\| | Beaver         |              |     |     |     |     |     | .28 |     |     |     |     | .56 | .03 |     |     |     | .02 | .07 |     |     |     |     |     |    |     |    |    |    |     |    |    |       | 0.94 |      |
| West Newton\|\|\| | Youghiogheny   | .04          |     |     |     |     |     | .02 | .35 | .34 | .28 |     | .03 | .02 | .58 | .10 |     | .03 | .38 | .34 | .12 | .06 |     |     |    |     |    |    |    |     |    |    |       | 2.69 |      |
| Zelienople        | Ohio           |              |     |     |     | .15 |     | .30 |     | .12 |     |     |     |     | .36 | .09 |     |     |     |     | .31 | .08 |     |     |    |     |    |    |    |     |    |    |       | 1.41 |      |
| Lake Drainage.    |                |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    |       |      |      |
| Erie***           | Lake Erie      | T            |     |     | T   |     |     | .16 | T   | T   | .01 |     | T   | .20 | T   |     | .10 | .24 | .12 | .04 |     | T   |     |     |    |     |    |    |    |     |    |    |       | 0.87 |      |
| Genesee           | do             |              |     |     |     |     |     | .30 |     | .20 |     |     |     | .50 | .05 |     |     | .07 | .15 | .24 | .12 | .05 |     |     |    |     |    |    |    |     |    |    |       | 1.68 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

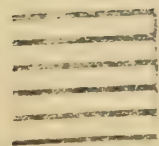
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville  
Newville; of Clymer, Indiana; of Driftwood, Sinnemahoning; of Penn



## Daily Temperatures for February, 1931

| Stations           | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |       |      |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Allentown.....     | Maximum | 31    | 42    | 35    | 44    | 40    | 45    | 24    | 32    | 34    | 29    | 30    | 38    | 46    | 34    | 41    | 44    | 41    | 44    | 36    | 33    | 38    | 42    | 41    | 44    | 48    | 47    | 44    | 54    | ..... | ..... | 39.3  |       |       |      |
|                    | Minimum | 10    | 16    | 10    | 12    | 12    | 16    | 18    | 19    | 22    | 24    | 11    | 12    | 24    | 32    | 16    | 20    | 31    | 35    | 33    | 29    | 29    | 31    | 31    | 27    | 26    | 27    | 31    | 25    | ..... | ..... | 22.5  |       |       |      |
| Altoona.....       | Maximum | 28    | 41    | 41    | 42    | 47    | 44    | 38    | 33    | 39    | 32    | 33    | 40    | 43    | 42    | 37    | 45    | 43    | 36    | 37    | 37    | 36    | 35    | 39    | 43    | 51    | 47    | 45    | 56    | ..... | ..... | 40.4  |       |       |      |
|                    | Minimum | 18    | 28    | 12    | 27    | 17    | 29    | 22    | 24    | 32    | 20    | 8     | 20    | 31    | 14    | 11    | 28    | 33    | 32    | 33    | 31    | 31    | 28    | 27    | 25    | 18    | 26    | 23    | 20    | ..... | ..... | 23.9  |       |       |      |
| Beaver Dam.....    | Maximum | 33    | 41    | 51    | 50    | 45    | 52    | 42    | 42    | 41    | 34    | 35    | 36    | 41    | 41    | 41    | 45    | 44    | 42    | 41    | 37    | 37    | 40    | 40    | 35    | 47    | 46    | 47    | 60    | ..... | ..... | 42.4  |       |       |      |
|                    | Minimum | 23    | 32    | 16    | 30    | 14    | 26    | 27    | 36    | 31    | 19    | 8     | 29    | 32    | 16    | 16    | 31    | 34    | 36    | 32    | 33    | 33    | 31    | 29    | 28    | 18    | 22    | 18    | 21    | ..... | ..... | 25.8  |       |       |      |
| Bellefonte.....    | Maximum | 32    | 41    | 40    | 39    | 43    | 44    | 28    | 32    | 36    | 30    | 32    | 38    | 43    | 35    | 37    | 43    | 42    | 40    | 36    | 38    | 34    | 36    | 42    | 45    | 49    | 44    | 44    | 54    | ..... | ..... | 39.2  |       |       |      |
|                    | Minimum | 14    | 17    | 10    | 19    | 10    | 23    | 20    | 28    | 25    | -1    | -14   | 25    | 31    | 14    | 13    | 25    | 33    | 32    | 31    | 30    | 30    | 27    | 24    | 19    | 22    | 25    | 19    | ..... | ..... | 20.8  |       |       |       |      |
| Brookville.....    | Maximum | 31    | 39    | 46    | 40    | 42    | 41    | 33    | 37    | 33    | 33    | 35    | 37    | 40    | 27    | 39    | 43    | 42    | 40    | 37    | 38    | 33    | 35    | 39    | 26    | 48    | 43    | 44    | 60    | ..... | ..... | 38.6  |       |       |      |
|                    | Minimum | 17    | 13    | 6     | 9     | 5     | 18    | 23    | 31    | 24    | -1    | -1    | 27    | 26    | 5     | 11    | 18    | 32    | 33    | 32    | 30    | 29    | 29    | 23    | 17    | 13    | 16    | 12    | 14    | ..... | ..... | 18.2  |       |       |      |
| Butler.....        | Maximum | 34    | 42    | 49    | 45    | 42    | 45    | 42    | 41    | 39    | 34    | 34    | 38    | 40    | 39    | 39    | 46    | 46    | 42    | 41    | 38    | 38    | 37    | 42    | 49    | 48    | 45    | 45    | 62    | ..... | ..... | 42.2  |       |       |      |
|                    | Minimum | 18    | 32    | 11    | 30    | 9     | 27    | 24    | 30    | 30    | 18    | 4     | 27    | 32    | 13    | 12    | 27    | 33    | 36    | 31    | 28    | 29    | 27    | 26    | 18    | 19    | 14    | 14    | 16    | ..... | ..... | 22.7  |       |       |      |
| Carlisle.....      | Maximum | 35    | 46    | 44    | 49    | 48    | 50    | 42    | 30    | 36    | 36    | 36    | 45    | 42    | 38    | 45    | 54    | 47    | 45    | 43    | 37    | 41    | 47    | 48    | 50    | 54    | 54    | 52    | 59    | ..... | ..... | 44.8  |       |       |      |
|                    | Minimum | 22    | 28    | 10    | 20    | 20    | 18    | 21    | 23    | 29    | 20    | 12    | 20    | 32    | 22    | 18    | 28    | 34    | 34    | 33    | 31    | 31    | 33    | 30    | 25    | 20    | 24    | 30    | 17    | ..... | ..... | 24.5  |       |       |      |
| Catawissa.....     | Maximum | 29    | 43    | 42    | 44    | 41    | 44    | 29    | 31    | 34    | 33    | 33    | 39    | 47    | 40    | 41    | 46    | 47    | 50    | 51    | 52    | 36    | 41    | 43    | 47    | 51    | 49    | 47    | 57    | ..... | ..... | 42.4  |       |       |      |
|                    | Minimum | 14    | 16    | 7     | 27    | 11    | 19    | 20    | 27    | 30    | 10    | -5    | 12    | 34    | 17    | 14    | 27    | 35    | 35    | 33    | 30    | 30    | 32    | 30    | 25    | 19    | 20    | 28    | 20    | ..... | ..... | 22.0  |       |       |      |
| Chambersburg.....  | Maximum | 38    | 43    | 41    | 49    | 46    | 52    | 40    | 31    | 36    | 38    | 40    | 53    | 42    | 43    | 48    | 56    | 48    | 45    | 41    | 38    | 40    | 45    | 50    | 53    | 55    | 55    | 60    | ..... | ..... | 45.8  |       |       |       |      |
|                    | Minimum | 24    | 31    | 16    | 24    | 18    | 24    | 26    | 24    | 30    | 26    | 15    | 26    | 30    | 26    | 18    | 30    | 34    | 35    | 33    | 32    | 32    | 32    | 30    | 29    | 24    | 24    | 26    | 23    | ..... | ..... | 26.5  |       |       |      |
| Chambersville..... | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |       |       |      |
|                    | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |       |      |
| Claysville.....    | Maximum | 36    | 39    | 52    | 49    | 47    | 47    | 53    | 53    | 42    | 33    | 36    | 43    | 44    | 45    | 41    | 47    | 47    | 46    | 44    | 37    | 34    | 39    | 38    | 39    | 50    | 46    | 50    | 66    | ..... | ..... | 44.4  |       |       |      |
|                    | Minimum | 24    | 30    | 16    | 29    | 14    | 18    | 30    | 40    | 30    | 9     | 3     | 25    | 35    | 12    | 15    | 28    | 34    | 40    | 30    | 31    | 29    | 29    | 29    | 26    | 17    | 19    | 16    | 24    | ..... | ..... | 24.4  |       |       |      |
| Clearfield.....    | Maximum | ..... | 45    | 50    | 41    | 49    | 50    | 40    | 40    | 38    | 35    | 39    | 38    | 37    | 39    | 48    | 47    | 46    | 48    | 59    | 60    | 55    | 39    | 45    | 42    | 48    | 47    | 50    | 61    | ..... | ..... | 45.8a |       |       |      |
|                    | Minimum | ..... | 25    | 9     | 16    | 7     | 21    | 20    | 25    | 30    | 13    | 0     | 21    | 20    | 24    | 26    | 24    | 26    | 22    | 30    | 32    | 27    | 25    | 21    | 21    | 18    | 20    | 16    | ..... | ..... | ..... | ..... | 21.1a |       |      |
| Coatesville.....   | Maximum | 31    | 44    | 37    | 45    | 40    | 47    | 36    | 34    | 34    | 34    | 29    | 45    | 49    | 47    | 43    | 50    | 42    | 50    | 40    | 37    | 40    | 48    | 44    | 44    | 47    | 51    | 45    | 54    | ..... | ..... | 42.4  |       |       |      |
|                    | Minimum | 21    | 28    | 13    | 22    | 15    | 23    | 22    | 25    | 32    | 23    | 14    | 20    | 31    | 23    | 17    | 28    | 37    | 36    | 34    | 31    | 29    | 33    | 30    | 28    | 28    | 29    | 25    | ..... | ..... | ..... | ..... | 25.9  |       |      |
| Corry.....         | Maximum | 27    | 31    | 43    | 40    | 41    | 35    | 34    | ..... | ..... | ..... | -35   | 35    | 39    | 35    | 32    | 40    | 42    | 37    | 38    | 34    | 35    | 32    | 35    | 36    | 40    | 41    | 42    | ..... | ..... | ..... | ..... | 36.6a |       |      |
|                    | Minimum | -1    | 12    | 5     | 19    | 7     | 26    | 25    | ..... | ..... | ..... | -1    | 20    | 27    | 21    | 5     | 24    | 32    | 33    | 29    | 29    | 29    | 26    | 24    | 23    | 19    | 17    | 19    | ..... | ..... | ..... | ..... | 19.5a |       |      |
| Emporium.....      | Maximum | 29    | 36    | 43    | 44    | 41    | 38    | 29    | 41    | 39    | 30    | 33    | 38    | 42    | 37    | 38    | 44    | 45    | 44    | 38    | 40    | 35    | 37    | 42    | 42    | 48    | 43    | 42    | 55    | ..... | ..... | ..... | ..... | 39.8  |      |
|                    | Minimum | 5     | 21    | 3     | 21    | 5     | 21    | 16    | 28    | 29    | 16    | -3    | 28    | 36    | 13    | 13    | 22    | 35    | 33    | 34    | 32    | 32    | 31    | 22    | 25    | 13    | 18    | 22    | 14    | ..... | ..... | ..... | ..... | 20.9  |      |
| Erie.....          | Maximum | 32    | 35    | 47    | 41    | 41    | 39    | 34    | 36    | 35    | 29    | 35    | 42    | 44    | 26    | 37    | 43    | 43    | 35    | 33    | 36    | 32    | 35    | 32    | 30    | 33    | 38    | 36    | 52    | ..... | ..... | ..... | ..... | 36.8  |      |
|                    | Minimum | 12    | 17    | 17    | 18    | 17    | 19    | 19    | 30    | 29    | 14    | 12    | 32    | 26    | 13    | 17    | 30    | 35    | 31    | 31    | 31    | 30    | 32    | 28    | 26    | 23    | 24    | 29    | 29    | ..... | ..... | ..... | ..... | 24.0  |      |
| Franklin.....      | Maximum | 35    | 37    | 48    | 33    | 45    | 42    | 38    | 42    | 35    | 26    | 36    | 41    | 40    | 29    | 42    | 45    | 43    | 39    | 35    | 37    | 34    | 38    | 38    | 45    | 48    | 43    | 49    | 63    | ..... | ..... | ..... | ..... | 40.2  |      |
|                    | Minimum | 13    | 16    | 10    | 11    | 10    | 11    | 20    | 21    | 29    | 17    | 4     | 8     | 31    | 12    | 10    | 20    | 33    | 32    | 31    | 31    | 30    | 28    | 27    | 26    | 19    | 19    | 15    | 16    | ..... | ..... | ..... | ..... | 19.6  |      |
| Freeland.....      | Maximum | 23    | 35    | 35    | 40    | 41    | 38    | 26    | 32    | 32    | 31    | 25    | 35    | 42    | 43    | 35    | 39    | 41    | 38    | 36    | 30    | 28    | 35    | 36    | 36    | 39    | 41    | 39    | 53    | ..... | ..... | ..... | ..... | 35.9  |      |
|                    | Minimum | 4     | 17    | 6     | 22    | 5     | 24    | 11    | 15    | 27    | 11    | 1     | 14    | 30    | 14    | 6     | 23    | 34    | 31    | 30    | 23    | 23    | 24    | 22    | 19    | 18    | 19    | 22    | 20    | ..... | ..... | ..... | ..... | 18.4  |      |
| Genesee.....       | Maximum | 30    | 31    | 40    | 40    | 38    | 37    | 26    | 40    | 34    | 29    | 30    | 35    | 40    | 36    | 33    | 40    | 44    | 37    | 38    | 35    | 35    | 35    | 33    | 35    | 38    | 38    | 34    | 50    | ..... | ..... | ..... | ..... | 36.1  |      |
|                    | Minimum | -13   | 21    | -14   | 21    | -3    | 19    | 8     | 25    | 20    | 10    | -12   | 17    | 30    | 9     | 9     | 18    | 32    | 32    | 32    | 30    | 25    | 25    | 17    | 19    | 15    | 12    | 23    | 10    | ..... | ..... | ..... | ..... | 15.6  |      |
| Gettysburg.....    | Maximum | 36    | 44    | 40    | 47    | 44    | 49    | 45    | 31    | 37    | 37    | 38    | 42    | 48    | 46    | 48    | 46    | 54    | 46    | 45    | 42    | 47    | 42    | 46    | 46    | 49    | 48    | 53    | 51    | 56    | ..... | ..... | ..... | ..... | 44.6 |
|                    | Minimum | 25    | 29    | 15    | 25    | 18    | 25    | 25    | 30    | 25    | 17    | 26    | 31    | 24    | 18    | 31    | 35    | 35    | 34    | 33    | 32    | 33    | 30    | 29    | 25    | 25    | 29    | 24    | ..... | ..... | ..... | ..... | 26.9  |       |      |
| Greensburg.....    | Maximum | 30    | 40    | 49    | 45    | 45    | 45    | 49    | 50    | 41    | 31    | 32    | 39    | 44    | 44    | 39    | 47    | 45    | 48    | 43    | 37    | 34    | 37    | 38    | 38    | 51    | 46    | 46    | 64    | ..... | ..... | ..... | ..... | 42.8  |      |
|                    | Minimum | 23    | 30    | 18    | 30    | 16    | 25    | 30    | 41    | 31    | 18    | 11    | 27    | 33    | 15    | 15    | 26    | 35    | 39    | 32    | 32    | 31    | 29    | 29    | 26    | 21    | 23    | 20    | 25    | ..... | ..... | ..... | ..... | 26.2  |      |
| Grove City.....    | Maximum | 28    | 39    | 48    | 43    | 44    | 41    | 37    | 39    | 38    | 32    | 34    | 40    | 44    | 40    | 38    | 44    | 43    | 46    | 38    | 38    | 35    | 37    | 37    | 38    | 46    | 44    | 44    | 61    | ..... | ..... | ..... | ..... | 40.6  |      |
|                    | Minimum | 15    | 26    | 15    | 26    | 12    | 27    | 23    | 34    | 29    | 20    | 2     | 26    | 32    | 15    | 14    | 25    | 21    | 20    | 18    | 16    | 14    | 13    | 26    | 24    | 18    | 18    | 16    | 17    | ..... | ..... | ..... | ..... | 20.1  |      |
| Hamburg.....       | Maximum | 43    | 42    | 36    | 43    | 42    | 45    | 39    | 33    | 36    | 37    | 30    | 42    | 46    | 42    | 41    | 46    | 43    | 48    | 44    | 35    | 36    | 44    | 45    | 45    | 49    | 47    | 48    | 54    | ..... | ..... | ..... | ..... | 42.2  |      |
|                    | Minimum | 17    | 20    | 8     | 20    | 12    | 18    | 16    | 29    | 22    | 10    | 14    | 31    | 24    | 16    | 28    | 33    | 36    | 33    | 28    | 26    | 27    | 28    | 26    | 27    | 28    | 26    | 27    | 26    | ..... | ..... | ..... | ..... | 22.9  |      |
| Harrisburg.....    | Maximum | 33    | 44    | 38    | 44    | 43    | 47    | 31    | 32    | 36    | 32    | 35    | 44    | 47    | 42    | 45    | 50    | 44    | 46    | 38    | 35    | 38    | 43    | 46    | 45    | 47    | 48    | 48    | 55    | ..... | ..... | ..... | ..... | 42.0  |      |
|                    | Minimum | 23    | 24    | 17    | 28    | 23    | 29    | 23    | 24    | 32    | 22    | 15    | 26    | 35    | 20    | 18    | 31    | 38    | 37    | 33    | 31    | 32    | 34    | 33    | 31    | 31    | 32    | 32    | 26    | ..... | ..... | ..... | ..... | 27.9  |      |
| Hawley.....        | Maximum | 17    | 39    | 38    | 39    | 36    | 38    | 29    | 25    | 34    | 36    | 26    | 36    | 46    | 42    | 35    | 40    | 49    | 39    | 39    | 32    | 33    | 38    | 35    | 36    | 41    | 41    | 37    | 52    | ..... | ..... | ..... | ..... | 36.7  |      |
|                    | Minimum | 4     | 10    | -9    | 15    | 0     | 11    | 5     | 14    | 24    | 18    | -16   | -2    | 32    | 18    | 9     | 19    | 33    | 32    | 31    | 27    | 21    | 28    | 26    | 20    | 17    | 13    | 29    | 13    | ..... | ..... | ..... | ..... | 15.8  |      |
| Huntingdon.....    | Maximum | 33    | 44    | 45    | 42    | 48    | 46    | 41    | 34    | 37    | 37    | 38    | 42    | 45    | 40    | 42    | 50    | 50    | 41    | 41    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

MARCH, 1931.

No. 3

## GENERAL SUMMARY.

The temperatures averaged a little below the normal in nearly all parts of the State, excepting the five southeastern counties. The greatest deficiencies were in the western half of the State. There were no cold waves and no unusual extremes. The precipitation averaged about fifteen percent below the March normal with the greatest deficiencies in the western third of the State, and with a slight to moderate excess at many of the eastern stations. The snowfall averaged close to the normal and was heavier generally than it was during either January or February. Most of the snow in the central and western portions of the State fell from the 8th to the 10th inclusive, while in the eastern counties the heaviest snowfall occurred from the 16th to the 19th inclusive. In the northern tier of counties the ground was snow covered about one-half of the month, but elsewhere it generally melted in from four to six days. In Philadelphia and vicinity it mostly melted as it fell, and the remainder within 24 hours. The melting snow replenished the surface water supply, soaking the top soil quite thoroughly to the depth of a foot or more, and filling the ponds and small streams. In some places it restored springs and shallow wells, but generally speaking it did not penetrate the deep soil. At the close of the month the top soil was in good condition for plowing and seeding, but was not in a condition to withstand a drought. Oats seeding was beginning in a few places. The winter grains were reported as being poor to fair, and the average condition was the poorest for many years. It was evident that many thousands of acres would have to be plowed up and planted to other products. There was much more winter killing of clover than usual, and a large portion of the clover lands were in a condition to be plowed up. The pastures were turning green at the end of the month, but many were patchy and it was evident that considerable grass was also winter killed. Orchard fruits seemed to have come through the winter in generally good condition. Most of them were dormant sprayed during the month of March. The sunshine was somewhat below the March normal. There were no severe or damaging storms, but the total wind movement for the month was high.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 89 stations, was 36.3°; a deficiency of 1.4° from the March nor-

mal. Monthly mean temperatures ranged from 44.0° at Marcus Hook to 29.2° at Elk Lick. The highest temperature recorded during the month was 69°, at Gettysburg on the 27th, and the lowest 10° at Hawley on the 3d, and at Coudersport and Genesee on the 21st. The greatest daily range of temperature was 41°, at Brookville on the 1st.

## PRECIPITATION.

The average precipitation for the State, as determined from observations made at 144 well-distributed stations, was 2.96 inches; or a deficiency of 0.48 inch compared with the normal for March. The greatest monthly amount was 5.72 inches at New Park, while the lowest, 0.70 inch, was recorded at Montrose. The greatest amount recorded in any 24 consecutive hours was 2.10 inches on the 28th at Altoona. Snowfall averaged 6.6 inches, which is 0.3 inch less than normal. The greatest monthly snowfall was 22.0 inches at Elk Lick. The greatest 24-hour snowfall, 11.0 inches, fell at New Park on the 16th.

## COMPARATIVE DATA FOR MARCH

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                       |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|-----------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | Of inch or more prec. |
| 1888.....                | 31.2        | 72      | -6     | 3.55          | 6.39     | 1.70  | 10          | 8             | 13     | 11                    |
| 1889.....                | 39.0        | 76      | 4      | 2.90          | 5.44     | 1.44  | 10          | 8             | 13     | 9                     |
| 1890.....                | 33.2        | 76      | -18    | 5.15          | 8.31     | 2.90  | 6           | 10            | 15     | 16                    |
| 1891.....                | 33.8        | 60      | -14    | 5.10          | 8.39     | 2.44  | 7           | 8             | 16     | 14                    |
| 1892.....                | 31.8        | 66      | -4     | 4.14          | 6.61     | 2.04  | 11          | 7             | 13     | 12                    |
| 1893.....                | 34.8        | 74      | 3      | 2.52          | 5.09     | 0.71  | 9           | 9             | 13     | 11                    |
| 1894.....                | 43.2        | 84      | -2     | 1.63          | 2.90     | 0.24  | 12          | 11            | 8      | 8                     |
| 1895.....                | 33.8        | 70      | -4     | 2.31          | 4.03     | 0.99  | 10          | 10            | 11     | 11                    |
| 1896.....                | 30.6        | 69      | -18    | 4.51          | 7.98     | 1.77  | 11          | 8             | 12     | 11                    |
| 1897.....                | 39.0        | 75      | -5     | 3.22          | 5.86     | 1.01  | 11          | 7             | 13     | 13                    |
| 1898.....                | 44.0        | 83      | 4      | 4.31          | 8.40     | 2.06  | 10          | 8             | 13     | 12                    |
| 1899.....                | 36.3        | 75      | 3      | 4.87          | 10.30    | 1.91  | 5           | 9             | 17     | 14                    |
| 1900.....                | 31.2        | 66      | -23    | 3.61          | 7.31     | 2.25  | 10          | 9             | 12     | 10                    |
| 1901.....                | 37.4        | 80      | -11    | 4.14          | 7.21     | 1.52  | 7           | 10            | 14     | 13                    |
| 1902.....                | 41.3        | 78      | 2      | 3.98          | 7.50     | 0.77  | 10          | 9             | 12     | 11                    |
| 1903.....                | 46.4        | 83      | 14     | 4.52          | 5.81     | 2.82  | 10          | 7             | 14     | 11                    |
| 1904.....                | 36.0        | 80      | -2     | 4.29          | 7.02     | 2.10  | 9           | 8             | 14     | 12                    |
| 1905.....                | 39.0        | 86      | -18    | 3.86          | 6.57     | 1.40  | 12          | 8             | 11     | 11                    |
| 1906.....                | 31.7        | 68      | -13    | 4.46          | 7.37     | 2.76  | 8           | 7             | 16     | 14                    |
| 1907.....                | 41.8        | 92      | -10    | 4.26          | 8.20     | 1.08  | 11          | 8             | 12     | 12                    |
| 1908.....                | 40.7        | 83      | -4     | 4.76          | 10.00    | 1.58  | 11          | 8             | 12     | 12                    |
| 1909.....                | 35.6        | 74      | -5     | 3.07          | 4.90     | 1.33  | 10          | 9             | 12     | 12                    |
| 1910.....                | 44.9        | 88      | 5      | 0.56          | 1.33     | 0.00  | 15          | 10            | 6      | 5                     |
| 1911.....                | 35.0        | 73      | -18    | 2.57          | 4.75     | 1.15  | 11          | 8             | 12     | 13                    |
| 1912.....                | 33.6        | 72      | -8     | 5.05          | 9.71     | 1.80  | 10          | 8             | 13     | 13                    |
| 1913.....                | 42.1        | 81      | -7     | 5.27          | 9.08     | 2.75  | 9           | 8             | 14     | 13                    |
| 1914.....                | 34.2        | 79      | -12    | 2.61          | 5.08     | 0.88  | 10          | 3             | 13     | 10                    |
| 1915.....                | 32.9        | 62      | -4     | 1.28          | 2.80     | 0.57  | 15          | 8             | 8      | 7                     |
| 1916.....                | 30.7        | 84      | -31    | 4.12          | 8.84     | 2.20  | 12          | 8             | 11     | 12                    |
| 1917.....                | 37.3        | 84      | -12    | 3.68          | 6.06     | 1.43  | 11          | 8             | 12     | 14                    |
| 1918.....                | 41.6        | 82      | 0      | 2.34          | 4.98     | 0.87  | 17          | 7             | 7      | 8                     |
| 1919.....                | 41.1        | 79      | 6      | 3.57          | 6.99     | 1.29  | 15          | 7             | 9      | 10                    |
| 1920.....                | 38.7        | 80      | -11    | 2.83          | 9.70     | 1.06  | 16          | 7             | 8      | 9                     |
| 1921.....                | 43.0        | 85      | 7      | 3.33          | 6.15     | 1.05  | 12          | 9             | 10     | 14                    |
| 1922.....                | 40.0        | 81      | -5     | 4.37          | 6.65     | 2.30  | 11          | 6             | 14     | 14                    |
| 1923.....                | 37.0        | 80      | -8     | 2.49          | 5.21     | 0.70  | 13          | 8             | 10     | 11                    |
| 1924.....                | 36.1        | 78      | 3      | 2.83          | 8.97     | 0.59  | 12          | 9             | 10     | 9                     |
| 1925.....                | 40.9        | 79      | -15    | 2.56          | 4.13     | 1.47  | 14          | 6             | 11     | 10                    |
| 1926.....                | 33.1        | 79      | -16    | 1.91          | 3.94     | 0.58  | 14          | 8             | 9      | 10                    |
| 1927.....                | 42.0        | 82      | -6     | 2.61          | 5.43     | 0.69  | 13          | 7             | 11     | 10                    |
| 1928.....                | 37.0        | 82      | -3     | 3.24          | 5.45     | 1.65  | 12          | 9             | 10     | 11                    |
| 1929.....                | 43.7        | 89      | -5     | 2.69          | 4.50     | 1.37  | 12          | 8             | 11     | 12                    |
| 1930.....                | 37.9        | 78      | -9     | 3.03          | 5.05     | 1.04  | 13          | 7             | 11     | 10                    |
| 1931.....                | 36.3        | 69      | 10     | 2.96          | 5.72     | 0.70  | 8           | 7             | 16     | 11                    |
| Normal and Extremes..... | 37.7        | 92      | -31    | 3.44          | 10.30    | 0.00  | 11          | 8             | 12     | 11                    |



## Climatological Data for March, 1931

| Stations               | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                        |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage.     |                   |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown.....         | Lehigh.....       | 254             | 19                      | 37.6                         | .....                     | 58      | 27    | 23     | 3     | 28                       | 2.99  | -0.21                     | 1.12                 | 2.4                       | 9                            | 12    | 11                           | 8         | ne.        | John A. Frick.              |
| Altoona.....           | Blair.....        | 1,615           | 44                      | 33.8                         | -4.0                      | 54      | 23†   | 18     | 11    | 27                       | 4.15  | +1.43                     | 2.10                 | 7.6                       | 14                           | 17    | 6                            | 8         | w.         | F. E. Rooney.               |
| Arendtsville.....      | Adams.....        | 700             | 9                       | 37.6                         | .....                     | 64      | 27    | 20     | 5     | 32                       | 5.44  | .....                     | 1.70                 | 7.0                       | 10                           | 14    | 2                            | 15        | nw.        | Dr. S. W. Frost.            |
| Bellefonte.....        | Center.....       | 1,050           | 23                      | 34.0                         | -6.1                      | 56      | 27    | 19     | 3     | 30                       | 1.61  | -1.81                     | 0.50                 | 4.7                       | 13                           | 0     | 7                            | 24        | w.         | U. S. Weather Bureau.       |
| Bethlehem.....         | Northampton.....  | 364             | 46                      | 39.8                         | -0.8                      | 61      | 27    | 24     | 3     | 26                       | 2.73  | -0.68                     | 1.06                 | 2.5                       | 11                           | 10    | 3                            | 18        | e.         | Lehigh University.          |
| Carlisle.....          | Cumberland.....   | 467             | 65                      | 39.4                         | -2.2                      | 62      | 23    | 19     | 3     | 37                       | 3.54  | +0.16                     | 1.30                 | 7.8                       | 9                            | 9     | 9                            | 13        | ne.        | Prof. C. E. Miller.         |
| Catawissa.....         | Columbia.....     | 520             | 35                      | 38.6                         | +0.2                      | 62      | 27    | 23     | 6†    | 34                       | 2.01  | -0.88                     | 0.65                 | 2.9                       | 8                            | 9     | 3                            | 19        | .....      | W. L. Gearhart.             |
| Center Hall.....       | Center.....       | 1,272           | 35                      | 34.8                         | -1.8                      | 57      | 31    | 16     | 8     | 33                       | 1.67  | -1.39                     | 0.48                 | 5.4                       | 9                            | 15    | 4                            | 12        | .....      | S. W. Smith.                |
| Chambersburg.....      | Franklin.....     | 580             | 32                      | 39.0                         | -0.5                      | 62      | 23    | 23     | 11    | 31                       | 3.84  | +0.85                     | 1.48                 | 3.5                       | 13                           | 2     | 15                           | 14        | ne.        | William B. Spear.           |
| Clearfield.....        | Clearfield.....   | 1,120           | 24                      | 35.0                         | -1.4                      | 62      | 27    | 17     | 14    | 37                       | 2.34  | -1.06                     | 0.95                 | 18.0                      | 10                           | 10    | 11                           | 10        | w.         | E. W. Hess.                 |
| Coatesville.....       | Chester.....      | 380             | 44                      | 38.7                         | -1.3                      | 59      | 27    | 24     | 3     | 24                       | 5.55  | +1.47                     | 1.68                 | 12.5                      | 10                           | 11    | 3                            | 17        | nw.        | Howard L. Pyle.             |
| Colebrook.....         | Lebanon.....      | 560             | 20                      | 36.8                         | -3.3                      | 58      | 27    | 20     | 14    | 31                       | 4.08  | +0.62                     | 1.12                 | 11.2                      | 12                           | 9     | 3                            | 19        | w.         | Wm. A. Rorer.               |
| Emporium.....          | Cameron.....      | 1,050           | 44                      | 34.5                         | -0.9                      | 57      | 27    | 18     | 7†    | 31                       | 2.93  | -0.69                     | 0.72                 | 5.5                       | 11                           | 4     | 7                            | 20        | w.         | T. B. Lloyd.                |
| Ephrata.....           | Lancaster.....    | 380             | 39                      | 39.4                         | -0.6                      | 60      | 27    | 25     | 3     | 29                       | 3.48  | +0.10                     | 1.12                 | 10.9                      | 10                           | 9     | 6                            | 16        | ne.        | Ira J. Keath.               |
| Freeland.....          | Luzerne.....      | 1,970           | 38                      | 32.2                         | -0.7                      | 55      | 27    | 16     | 3     | 27                       | 4.10  | +0.53                     | 1.03                 | 19.4                      | 15                           | 5     | 7                            | 19        | nw.        | Theo. Reichmann.            |
| George School.....     | Bucks.....        | 190             | 25                      | 40.4                         | -0.3                      | 59      | 26†   | 24     | 3     | 27                       | 3.55  | +0.38                     | 1.01                 | 2.6                       | 9                            | 7     | 7                            | 17        | e.         | Prof. N. W. Swayne          |
| Gettysburg.....        | Adams.....        | 553             | 58                      | 39.2                         | -0.9                      | 69      | 27    | 23     | 11    | 36                       | 5.44  | +2.30                     | 1.72                 | 7.0                       | 13                           | 11    | 7                            | 13        | w.         | Dr. Henry Stewart           |
| Gordon.....            | Schuylkill.....   | 840             | 27                      | 35.8                         | -1.1                      | 58      | 27    | 16     | 3     | 34                       | 4.07  | +0.25                     | 1.28                 | 13.0                      | 13                           | 8     | 4                            | 19        | e.         | Capt. J. G. Johnson         |
| Gouldsboro.....        | Wayne.....        | 1,875           | 16                      | 29.8                         | .....                     | 52      | 27    | 11     | 3     | 29                       | 4.07  | +1.03                     | 1.15                 | 13.0                      | 12                           | 12    | 1                            | 18        | w.         | Gustav Holtz.               |
| Hamburg.....           | Berks.....        | 535             | 38                      | 38.4                         | .....                     | 58      | 23†   | 23     | 7     | 29                       | 4.56  | +0.75                     | 1.76                 | 4.7                       | 11                           | 9     | 14                           | 8         | w.         | State Sanatorium.           |
| Hanover.....           | York.....         | 600             | 27                      | 39.7                         | -2.8                      | 59      | 27    | 22     | 11    | 29                       | 3.70  | +0.64                     | 1.09                 | 7.5                       | 13                           | 10    | 4                            | 17        | n.         | Thomas Y. Cooper.           |
| Harrisburg.....        | Dauphin.....      | 361             | 62                      | 38.7                         | -0.2                      | 67      | 23    | 25     | 3     | 20                       | 3.72  | +0.68                     | 1.27                 | 2.9                       | 13                           | 5     | 7                            | 19        | w.         | U. S. Weather Bureau.       |
| Hawley.....            | Wayne.....        | 900             | 13                      | 34.9                         | -0.6                      | 61      | 27    | 10     | 3     | 38                       | 2.65  | -0.05                     | 1.00                 | 6.5                       | 9                            | 8     | 10                           | 13        | w.         | Mrs. Della M. Pennell.      |
| Holtwood.....          | Lancaster.....    | 200             | 16                      | 40.0                         | -2.0                      | 62      | 28    | 27     | 11    | 26                       | 3.74  | +1.08                     | 0.95                 | 7.0                       | 14                           | 8     | 13                           | 10        | .....      | H. W. Lowy, C. E.           |
| Huntingdon.....        | Huntingdon.....   | 650             | 44                      | 36.8                         | -2.1                      | 58      | 27    | 15     | 3     | 34                       | 3.03  | -0.32                     | 1.06                 | 2.0                       | 10                           | 9     | 6                            | 16        | nw.        | Prof. Paul R. Yoder.        |
| Hyndman.....           | Bedford.....      | 977             | 19                      | 38.2                         | -2.2                      | 59      | 27    | 20     | 11    | 35                       | 3.35  | +0.36                     | 0.99                 | 2.1                       | 13                           | 5     | 2                            | 24        | .....      | Horace A. Sheavly.          |
| Lancaster.....         | Lancaster.....    | 255             | 44                      | 38.0                         | -1.7                      | 58      | 23    | 18     | 2     | 32                       | 4.36  | +1.03                     | 1.56                 | 7.0                       | 10                           | 16    | 3                            | 12        | ne.        | Supt. of Water Works.       |
| Lawrenceville.....     | Tioga.....        | 1,000           | 34                      | 34.0                         | -0.8                      | 54      | 24†   | 20     | 2†    | 31                       | 1.60  | -0.71                     | 0.65                 | 7.0                       | 7                            | 8     | 10                           | 13        | .....      | C. P. Darling.              |
| Lebanon.....           | Lebanon.....      | 469             | 47                      | 38.9                         | -0.5                      | 59      | 23    | 24     | 3†    | 29                       | 3.60  | +0.04                     | 1.00                 | 5.0                       | 12                           | 10    | 7                            | 14        | nw.        | S. B. Benzing.              |
| Lewisburg.....         | Union.....        | 450             | 55                      | 38.6                         | +1.6                      | 60      | 24†   | 22     | 3     | 36                       | 3.14  | -0.36                     | 1.11                 | 3.0                       | 5                            | 11    | 4                            | 16        | w.         | Prof. W. G. Owens.          |
| Lock Haven.....        | Clinton.....      | 560             | 41                      | 38.9                         | +0.3                      | 60      | 23†   | 21     | 3†    | 35                       | 2.20  | -1.16                     | 0.71                 | 0.5                       | 11                           | 3     | 12                           | 16        | ne.        | Joseph Beaver.              |
| Lykens.....            | Dauphin.....      | 680             | 16                      | 37.2                         | -2.3                      | 60      | 23    | 12     | 3     | 36                       | 3.54  | +0.75                     | 1.33                 | 5.5                       | 14                           | 14    | 8                            | 9         | uw.        | Susquehanna Collieries Co.  |
| Marcus Hook.....       | Delaware.....     | 50              | 4                       | 44.0                         | .....                     | 65      | 27    | 28     | 9†    | 27                       | 4.10  | .....                     | 1.37                 | 4.0                       | 6                            | 5     | 14                           | 12        | nw.        | Sun Oil Co.                 |
| Mauch Chunk.....       | Carbon.....       | 600             | 42                      | 37.6                         | +0.2                      | 63      | 27    | 20     | 3     | 33                       | 3.78  | -0.41                     | 1.50                 | 7.8                       | 11                           | 9     | 5                            | 17        | nw.        | R. K. Wintermute.           |
| Mifflintown.....       | Juniata.....      | 445             | 27                      | 37.0                         | -2.2                      | 57      | 23    | 19     | 3     | 30                       | 3.05  | +0.17                     | 1.18                 | 4.8                       | 10                           | 13    | 2                            | 16        | w.         | Wellington Smith.           |
| Montrose.....          | Susquehanna.....  | 1,720           | 27                      | 30.2                         | -2.1                      | 45      | 24    | 11     | 6     | 20                       | 0.70  | -1.92                     | 0.20                 | 6.0                       | 5                            | 7     | 10                           | 14        | w.         | Silas Jagger.               |
| Mt. Pocono.....        | Monroe.....       | 1,658           | 25                      | 30.2                         | -2.0                      | 49      | 23    | 18     | 3†    | 24                       | 3.84  | +0.31                     | 1.80                 | 13.5                      | 11                           | 2     | 5                            | 24        | sw.        | Cecil J. Hoskinson.         |
| Muncy Valley.....      | Sullivan.....     | 1,045           | 19                      | 35.2                         | -0.5                      | 58      | 27    | 17     | 3     | 34                       | 3.13  | +0.60                     | 1.04                 | 9.5                       | 10                           | 11    | 7                            | 13        | nw.        | H. O. Hacker.               |
| Narberth.....          | Montgomery.....   | 300             | 12                      | 37.9                         | -4.4                      | 58      | 24    | 24     | 3†    | 25                       | 3.61  | +0.08                     | 1.18                 | 4.5                       | 9                            | 8     | 7                            | 16        | ne.        | Charles Decker.             |
| Neshaminy Falls††..... | Bucks.....        | 60              | 42                      | 39.2                         | -0.1                      | 61      | 27    | 21     | 1     | 33                       | 3.69  | +0.27                     | 1.56                 | 0.2                       | 11                           | 6     | 7                            | 18        | s.         | North Springfield Water Co. |
| Palmerton.....         | Carbon.....       | 398             | 13                      | 37.2                         | .....                     | 58      | 27    | 22     | 3     | 30                       | 3.00  | -0.41                     | 1.14                 | 4.0                       | 9                            | 8     | 8                            | 15        | ne.        | New Jersey Zinc Co.         |
| Philadelphia.....      | Philadelphia..... | 114             | 60                      | 42.3                         | +1.5                      | 61      | 27    | 29     | 11    | 21                       | 3.97  | +0.58                     | 1.40                 | 0.8                       | 12                           | 3     | 9                            | 19        | nw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.....  | Philadelphia..... | 113             | 7                       | 41.6                         | .....                     | 61      | 24†   | 28     | 3†    | 24                       | 3.81  | .....                     | 1.43                 | 2.2                       | 9                            | 5     | 11                           | 15        | .....      | Julius Bernstein.           |
| Phila. Navy Yard.....  | Philadelphia..... | 12              | 15                      | 40.2                         | -2.1                      | 58      | 27    | 28     | 11†   | 20                       | 3.68  | -0.56                     | 1.41                 | 0.6                       | 8                            | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |
| Phoenixville.....      | Chester.....      | 100             | 21                      | 42.3                         | +1.4                      | 66      | 26†   | 25     | 3†    | 34                       | 3.95  | +0.64                     | 1.30                 | 2.7                       | 9                            | 11    | 12                           | 8         | ne.        | North Springfield Water Co. |
| Quakertown.....        | Bucks.....        | 496             | 46                      | 38.5                         | +1.2                      | 59      | 27    | 23     | 3     | 28                       | 2.84  | -0.69                     | 1.26                 | 1.8                       | 9                            | 7     | 7                            | 17        | nw.        | John E. Benner.             |
| Reading.....           | Berks.....        | 325             | 59                      | 39.4                         | -0.6                      | 58      | 27    | 27     | 3     | 23                       | 4.35  | +0.83                     | 1.43                 | 3.2                       | 11                           | 7     | 9                            | 15        | w.         | U. S. Weather Bureau.       |
| Seranton.....          | Lackawanna.....   | 805             | 37                      | 36.7                         | +1.0                      | 60      | 27    | 22     | 3     | 28                       | 2.20  | -1.00                     | 0.62                 | 3.2                       | 11                           | 3     | 8                            | 20        | ne.        | U. S. Weather Bureau.       |
| Selinsgrove.....       | Snyder.....       | 455             | 41                      | 38.5                         | 0.0                       | 59      | 27    | 22     | 3     | 32                       | 2.76  | -0.80                     | 1.26                 | 2.7                       | 10                           | 10    | 9                            | 12        | s.         | Dr. George E. Fisher.       |
| Shawmont††.....        | Philadelphia..... | 51              | 35                      | 40.5                         | .....                     | 59      | 27    | 27     | 3     | 28                       | 3.46  | +0.05                     | 1.25                 | 3.2                       | 10                           | 9     | 7                            | 15        | nw.        | W. S. Guiles.               |
| State College.....     | Center.....       | 1,217           | 47                      | 34.8                         | -1.3                      | 56      | 27    | 19     | 11    | 28                       | 2.13  | -1.05                     | 0.57                 | 4.0                       | 11                           | 4     | 10                           | 17        | w.         | C. A. Kern.                 |
| Stroudsburg.....       | Monroe.....       | 500             | 17                      | 35.9                         | -0.9                      | 60      | 27    | 18     | 3     | 35                       | 3.15  | -0.50                     | 1.50                 | 2.8                       | 8                            | 5     | 9                            | 17        | nw.        | State Normal School.        |
| Towanda.....           | Bradford.....     | 754             | 37                      | 34.8                         | -0.3                      | 57      | 24    | 18     | 3     | 34                       | 1.54  | -1.02                     | 0.64                 | 5.3                       | 11                           | 7     | 10                           | 14        | e.         | Hiram E. Bull, C. E.        |
| Wellsboro.....         | Tioga.....        | 1,419           | 61                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      | George W. Hill.             |
| West Chester.....      | Chester.....      | 455             | 82                      | 39.4                         | +0.5                      | 58      | 27    | 25     | 3†    | 22                       | 3.69  | -0.20                     | 1.25                 | 4.5                       | 11                           | 11    | 6                            | 14        | nw.        | Joseph W. Belt.             |
| Williamsport.....      | Lycoming.....     | 521             | 45                      | 37.4                         | -0.2                      | 58      | 27    | 20     | 3     | 32                       | 3.94  | +0.74                     | 1.56                 | 3.2                       | 14                           | 9     | 5                            | 17        | w.         | Miss Veronica E. April.     |
| York.....              | York.....         | 400             | 43                      | 38.8                         | -1.8                      | 59      | 23    | 21     | 21    | 36                       | 3.87  | +0.71                     | 1.40                 | 5.0                       | 11                           | 12    | 5                            | 14        | w.         | York Water Co.              |
| Ohio Drainage.         |                   |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam††.....      | Beaver.....       | 700             | 39                      | 36.2                         | -5.0                      | 60      | 1     | 18     | 11    | 27                       | 2.29  | -1.26                     | 0.66                 | 3.9                       | 14                           | 1     | 15                           | 15        | ne.        | U. S. Engineer.             |
| Bradford.....          | McKean.....       | 1,460           | 12                      | 32.3                         | -3.8                      | 56      | 27    | 18     | 2     | 28                       | 1.89  | -1.35                     | 0.50                 | 11.0                      | 15                           | 5     | 0                            | 26        | nw.        | Supt. Timber Pres. Plant.   |
| Brookville.....        | Jefferson.....    | 1,173           | 41                      | 32.6                         | -1.2                      | 60      | 1     | 14     | 15    | 41                       | 2.21  | -0.89                     | 0.72                 | 11.0                      | 10                           | 12    | 6                            | 13        | .....      | John Fawcett.               |
| Butler.....            | Butler.....       | 1,152           | 17                      | 34.3                         | .....                     | 60      | 23†   | 17     | 11†   | 36                       | 2.37  | -0.99                     | 0.81                 | 8.5                       |                              |       |                              |           |            |                             |



Daily Precipitation for March, 1931

| Stations           | Drainage Basin | Day of month |     |    |     |     |     |     |      |     |     |     |     |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |      |      |     |      | Total |      |
|--------------------|----------------|--------------|-----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|----|----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|------|-----|------|-------|------|
|                    |                | 1            | 2   | 3  | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14 | 15 | 16  | 17   | 18  | 19  | 20  | 21  | 22 | 23  | 24  | 25  | 26  | 27  | 28   | 29   | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |     |    |     |     |     |     |      |     |     |     |     |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |      |      |     |      |       |      |
| Allentown          | Lehigh         | T.           | .20 |    |     |     |     |     | .46  | .33 | T.  |     | T.  |     |    |    | .01 | .32  |     |     | .31 |     |    |     |     | .22 | .02 |     |      |      |     |      | 2.99  |      |
| Altoona            | Juniata        | .31          |     |    |     |     |     |     | .79  | .10 | .08 | T.  |     |     |    |    | .07 | .03  | .05 |     | .18 | .04 |    |     | .04 | .12 | .30 | T.  |      | 1.54 | .56 |      | 4.15  |      |
| Ansonia            | W. Br. Susq.   |              |     |    |     |     |     |     | .50  |     |     |     |     |     |    |    | .02 | .06  |     |     | .04 |     |    | .06 |     | .35 |     |     | .80  | .10  |     | 2.93 |       |      |
| Arendtsville       | Lower Susq.    |              | .62 |    |     |     |     |     | 1.35 | T.  |     |     |     |     |    |    |     | .42  | .30 |     | .28 |     |    | .05 |     | .12 | .60 |     |      | 1.70 |     | 5.44 |       |      |
| Baker's Summit     | Juniata        | .53          |     |    |     |     |     |     | .79  |     |     |     |     |     |    |    | .10 | .08  | .08 |     | .30 |     |    |     | .37 | .15 |     |     | 1.11 | .09  |     | 3.60 |       |      |
| Bellefonte         | W. Br. Susq.   | .10          |     |    | .01 |     |     | .01 | .41  | .02 | T.  | T.  | T.  | T.  |    |    | .10 | .10  | .01 |     | .07 | T.  |    |     | .06 | .21 |     |     | .45  | .06  | T.  | 1.61 |       |      |
| Bethlehem          | Lehigh         | .15          |     |    |     |     |     |     | .53  | .11 |     | T.  | T.  |     |    |    | T.  | .03  | .25 |     | .14 | .17 |    |     |     | .24 | .01 |     | .04  | 1.06 |     | 2.73 |       |      |
| Blosserville       | Lower Susq.    |              |     |    |     |     |     |     | .50  |     |     |     |     |     |    |    | .02 | .06  |     |     | .04 |     |    | .06 |     | .35 |     |     | .80  | 1.10 |     | 2.93 |       |      |
| Carlisle           | Lower Susq.    | .28          |     |    | T.  |     | T.  | T.  | .90  | T.  |     |     |     |     |    |    | .08 | .30  | .23 |     | .25 |     |    | T.  |     | T.  | .20 |     | .51  | .79  |     | 3.54 |       |      |
| Catawissa          | N. Br. Susq.   |              |     |    | T.  |     |     | T.  | .53  | .08 |     |     |     |     |    |    |     | .34  | .05 |     | .18 |     |    |     | .02 | .16 |     |     | .65  |      |     | 2.01 |       |      |
| Center Hall        | Susquehanna    | .12          |     |    | .18 |     |     |     | .48  | .05 |     | .02 |     |     |    |    | .18 |      |     |     | .20 |     |    |     | .04 |     |     |     | .40  |      |     | 1.67 |       |      |
| Chambersburg       | Potomac        | .71          | .01 | T. |     |     |     |     | .75  |     |     |     |     |     |    |    | .14 | .26  | .12 |     | .21 | .01 | T. | .05 | .02 | .08 |     |     | .66  | .82  |     | 3.84 |       |      |
| Clearfield         | W. Br. Susq.   | .17          |     |    |     | T.  |     |     | .42  | .20 | .10 | .12 | T.  |     |    |    | .04 | T.   |     |     | .04 |     |    |     | .05 |     | .05 |     | .95  | .25  | T.  | 2.34 |       |      |
| Coatesville        | Lower Del.     | .33          |     |    |     |     |     |     | 1.68 | T.  | T.  |     |     |     |    |    | T.  | .45  | .50 |     | .22 |     |    | .03 | .02 | .08 |     |     | .31  | .93  |     | 5.55 |       |      |
| Colebrook          | Lower Susq.    | .19          |     |    |     | T.  |     |     | 1.12 | .01 | T.  |     |     |     |    |    | .09 | *.79 |     | .25 |     |     |    | T.  | .07 | .15 | .01 |     | .72  | .68  |     | 4.08 |       |      |
| Conshohocken       | Schuylkill     | .21          | .06 |    |     |     |     |     | .53  |     |     |     |     |     |    |    | T.  | .84  | .21 |     | .04 | .03 |    |     |     | .28 |     |     | .12  | 1.00 |     | 3.32 |       |      |
| Cresson            | Juniata        | .43          |     |    |     |     |     | .50 | .55  | .10 | .10 | .03 |     |     |    |    | .08 |      | .10 |     | .05 |     |    | .04 |     | .16 |     |     | 1.00 | .68  |     | 3.22 |       |      |
| Doylestown         | Lower Del.     | .17          |     |    | T.  |     |     |     | .96  |     |     |     |     |     |    |    | .15 | .02  |     |     | .09 | .07 |    |     |     | .04 |     |     | .12  | 1.49 |     | 3.11 |       |      |
| Driftwood          | W. Br. Susq.   | .14          |     |    |     |     |     |     | 1.04 | .20 | .02 | .02 |     |     |    |    | .02 |      |     |     | .14 | T.  |    |     | .05 | .33 |     |     | .52  | .15  |     | 2.49 |       |      |
| Emporium           | do.            | .07          |     |    | T.  | T.  | T.  | T.  | .66  | .10 | T.  | T.  | T.  |     |    |    | .05 | .20  |     |     | .14 | T.  |    |     | .25 | .42 | .22 |     | .72  | .10  | T.  | 2.93 |       |      |
| Ephrata            | Lower Susq.    | .29          | .01 |    |     |     |     |     | .17  | T.  |     |     |     |     |    |    | .02 | .22  | .32 |     | .17 |     |    |     | T.  | .34 | T.  |     | .22  | 1.12 |     | 3.48 |       |      |
| Forest City        | N. Br. Susq.   | T.           |     |    | .03 |     |     |     | .04  | .67 | .08 | .06 | .02 | .02 | T. |    |     | .08  | .25 |     | T.  | .17 |    |     |     | .33 | .20 | .03 |      | .62  | .69 | .05  | T.    | 2.41 |
| Freeland           | Lehigh         | .02          |     |    | .18 | T.  |     |     | .70  | .51 | .21 | .25 | T.  | .01 |    |    |     | .08  | .25 |     | T.  | .38 |    |     | .01 | .20 | .25 |     | T.   | 1.03 | .02 |      | 4.10  |      |
| Galeton            | W. Br. Susq.   |              |     |    | T.  | T.  |     |     | 1.34 | .28 | .02 |     |     |     |    |    | .39 |      |     | .28 | T.  |     |    |     | .25 |     |     |     | .70  |      | T.  | 3.26 |       |      |
| George School      | Lower Del.     | .25          |     |    | T.  | T.  |     |     | 1.01 | T.  | T.  |     |     |     |    |    | .17 | .03  |     | .06 | .31 |     |    |     | .15 |     |     |     | .14  | 1.43 |     | 3.55 |       |      |
| Jettysburg         | Potomac        | .77          | .04 |    |     |     |     |     | 1.63 |     |     |     |     |     |    |    | .08 | .45  | .24 |     | .27 |     |    | .03 | .03 | .05 | .13 |     | .63  | 1.09 | T.  |      | 5.44  |      |
| Girardville        | Lower Susq.    | .09          |     |    | .09 |     |     |     | 1.46 | .11 |     |     |     |     |    |    | .35 |      |     |     | .35 |     |    |     | T.  | .30 | .25 |     | .55  | .55  |     | .01  | 4.11  |      |
| Gordon             | Lower Susq.    | .16          |     |    |     | .05 |     |     | 1.28 | .16 | .07 |     |     |     |    |    | .06 | .22  | .15 |     | .15 |     |    |     |     |     | .41 | .11 |      | .27  | .98 |      | 4.07  |      |
| Gouldsboro         | Lehigh         | .15          |     |    | .18 |     |     |     | 1.15 | .55 | .10 | .18 | .18 | .20 |    |    |     | .24  | .18 |     | .04 | .07 |    |     |     |     | .45 |     |      | .65  |     |      | 4.07  |      |
| Graterford         | Schuylkill     | .18          | .04 |    |     |     |     |     | .92  | T.  |     |     |     |     |    |    |     | .18  | .33 |     | .26 | .03 |    |     | .25 |     |     |     | .18  | 1.12 |     | 3.02 |       |      |
| Hamburg            | Schuylkill     | .14          |     |    |     |     |     |     | 1.76 | .02 | .01 |     |     |     |    |    |     | .18  | .33 |     | .26 | .03 |    |     | .25 |     |     |     | .17  | 1.41 |     | 4.56 |       |      |
| Hanover            | Lower Susq.    | .68          | .05 |    |     |     |     |     | .49  | T.  | T.  |     |     |     |    |    | .09 | .50  | .41 |     | .20 | .03 |    | .03 | .02 | T.  | .11 |     | .29  | .80  |     | 3.70 |       |      |
| Harrisburg         | Lower Susq.    | .22          |     |    | T.  | T.  |     | .06 | .87  | T.  | T.  | T.  | T.  | T.  |    |    | .19 | .41  | .09 |     | .28 |     |    |     | .06 | .15 |     |     | 1.22 | .06  | .09 | 3.72 |       |      |
| Hawley             | Upper Del.     | .03          |     |    | .08 | T.  |     |     | .14  | .65 | T.  |     |     | T.  | T. |    | .02 |      |     | .28 |     |     |    | .30 | .15 |     |     |     | 1.00 |      |     | 2.65 |       |      |
| Hollisterville     | Upper Del.     | T.           | .06 |    | .02 |     |     |     | .24  | .70 | .10 | .02 | .01 | T.  | T. |    | T.  | .01  |     |     | .36 |     |    |     | .22 | .09 |     |     | .98  |      |     | 2.81 |       |      |
| Holtwood           | Lower Susq.    | .30          | .10 |    |     |     |     |     | .88  | .16 |     |     |     |     |    |    | T.  | .08  | .80 |     | .03 | .17 |    | .01 | .07 |     | .15 | .02 |      | .02  | .95 | T.   | 3.74  |      |
| Huntingdon         | Juniata        | .21          | T.  |    |     |     | T.  |     | .73  | T.  |     |     |     |     |    |    | .03 | .28  | .07 |     | .13 | T.  |    |     | .04 | .14 |     |     | 1.06 | .34  |     | 3.03 |       |      |
| Hyndman            | Potomac        | .90          |     |    |     |     | .02 |     | .68  | T.  | T.  |     |     |     |    |    | .08 | T.   | .10 |     | .14 | .02 |    | .08 | .03 | .08 | .23 |     | .67  | .32  |     | 3.35 |       |      |
| Kylertown          | W. B. Susq.    | .14          |     |    |     | T.  |     |     | .52  | .51 | .16 | .03 | .03 | T.  |    |    | .05 |      |     |     | T.  | .09 |    |     | T.  | .31 | .07 |     | .82  | .15  | T.  | 2.76 |       |      |
| Lakeville          | Upper Del.     | .04          |     |    | .10 | .05 |     |     | .25  | .67 | .04 |     | .02 | .01 |    |    | .08 | .29  | .33 |     | .27 |     |    | .02 | .28 |     |     | .23 | 1.32 |      |     | 3.37 |       |      |
| Lancaster          | Lower Susq.    | .34          |     |    |     |     |     |     | 1.20 |     |     |     |     |     |    |    | .08 | .29  | .33 |     | .27 |     |    |     | .02 | .28 |     |     | .23  | 1.32 |     | 4.36 |       |      |
| Lansford           | Lehigh         | .04          |     |    | .01 |     |     |     | .97  | T.  | T.  |     |     |     |    |    | T.  | .10  |     |     | .10 |     |    |     | .05 | .17 |     |     | .30  |      | .05 | 2.85 |       |      |
| Lawrenceville      | N. Br. Susq.   |              |     |    | T.  |     |     |     | .65  | .35 | T.  |     | T.  |     |    |    | T.  | .10  |     |     | .10 |     |    |     | .05 |     |     |     | .30  |      | .05 | 1.60 |       |      |
| Lebanon            | Lower Susq.    | .10          | T.  |    | T.  | T.  |     |     | 1.00 | .18 | T.  | T.  | T.  |     |    |    | T.  | .27  | .24 |     | .18 | .06 |    |     |     | .23 | .02 |     | .25  | 1.00 |     | 3.60 |       |      |
| Lewisburg          | W. Br. Susq.   | .04          |     |    | T.  |     |     |     | 1.11 |     |     |     |     |     |    |    | T.  | .22  | .12 |     | .14 |     |    |     |     | .29 |     |     | .50  | .72  |     | 3.14 |       |      |
| Lloyd              | do.            |              |     |    |     |     |     |     | 1.00 | .06 |     |     |     |     |    |    | .02 |      |     |     | .08 |     |    |     |     |     |     |     | .40  |      |     | 1.56 |       |      |
| Lock Haven         | do.            | .08          |     |    | T.  |     |     |     | .71  | .06 |     | T.  | T.  |     |    |    | .02 | .20  | .05 |     | .09 | .02 |    |     |     | .20 |     |     | .48  | .29  |     | 2.20 |       |      |
| Lykens             | Susquehanna    | .16          | .01 |    | T.  | .05 |     |     | 1.33 | .08 | .01 |     |     |     |    |    | T.  | .32  | .30 |     | .15 | .05 |    |     | T.  | .16 | .11 |     | .13  | .68  |     | 3.54 |       |      |
| Marcus Hook        | Lower Del.     | .31          |     |    |     |     |     |     | 1.25 |     |     |     |     |     |    |    |     | .85  |     |     | .21 |     |    |     | T.  | .11 |     |     | 1.37 |      |     | 4.10 |       |      |
| Mauch Chunk        | Lehigh         | .06          |     |    |     |     |     |     | 1.50 | .02 | .02 | T.  | T.  |     |    |    |     | .27  | .04 |     | .20 | .02 |    |     |     | .38 |     |     | .28  | .99  |     | 3.78 |       |      |
| Midlinton          | Juniata        | .08          |     |    |     |     |     |     | 1.17 | .01 |     |     |     |     |    |    | .05 | .30  | .09 |     | .04 |     |    |     | .27 |     |     |     | .40  | .64  |     | 3.05 |       |      |
| Montrose           | N. Br. Susq.   |              |     |    | T.  |     |     | .10 |      | .20 | T.  | .10 |     |     |    |    |     |      |     | T.  | T.  |     |    |     |     | .17 |     |     | .20  |      |     | 2.96 |       |      |
| Morris Run         | N. Br. Susq.   |              |     |    | .05 | .10 |     |     | 1.19 | .25 |     | .04 |     |     |    |    | .18 |      |     |     | .14 |     |    |     | .17 |     |     |     | .56  | .28  | T.  | 2.96 |       |      |
| Mount Pocono       | Upper Del.     |              |     |    | T.  | .05 | .03 |     | 1.80 | .20 | T.  | T.  | T   |     |    |    |     |      |     |     |     |     |    |     |     |     |     |     |      |      |     |      |       |      |



## Daily Precipitation for March, 1931—Continued from page 13

| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      | Total |      |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-------|------|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27   | 28  | 29   | 30  | 31   |       |      |
| Ohio Drainage.  |                |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |       |      |
| Beaver Dam      | Ohio           | .13          | .06 |     |     |     |     |     | .30 | .15 | .22 | .01 | T.  |     |     |     |     | .01 |     | .15 | .01 |     |     | .01 |     | .38 | .20 |      | .08 | .58  |     |      | 2.29  |      |
| Beaver Falls    | Beaver         | .11          | .02 |     |     |     |     |     | .31 | .25 | .05 | .01 | T.  |     |     |     | .01 | T.  |     | .16 | T.  |     |     | T.  |     | .24 | .22 |      | .08 | .29  | T.  |      | 1.75  |      |
| Bradford        | Allegheny      |              |     |     |     |     | .04 |     | .50 | .30 | .05 | .10 | .10 |     | .02 |     |     |     |     | .04 |     | .02 |     |     | .05 | .15 | .06 |      | .35 | .06  | .05 |      | 1.89  |      |
| Brookville      | do             | T.           |     |     |     |     | T.  |     | .25 | .55 | .20 | .08 | .05 | T.  |     |     |     | .05 |     |     | .06 |     |     |     |     |     |     |      |     | .72  |     | .09  | 2.21  |      |
| Butler          | Ohio           | .04          |     |     |     |     | T.  | T.  | .20 | .50 | .10 |     | .02 |     |     |     |     | .03 |     | .13 |     |     |     |     | .42 | .12 |     |      | *   | .81  | T.  |      | 2.37  |      |
| Chambersville   | Allegheny      |              |     |     |     |     |     |     | .50 |     | .20 | T.  | .10 |     |     |     |     | .01 |     | .08 |     |     | .08 |     | .07 | .07 |     |      | .62 | .08  | .02 |      | 1.84  |      |
| Clairton        | Monongahela    | .21          |     |     |     | T.  | T.  | .04 | .21 | .02 | T.  | T.  | .20 |     | .08 | .01 |     |     |     | .34 | .05 |     | .07 |     | .30 | .19 | .11 |      | .44 | T.   | T.  | .10  | 2.37  |      |
| Claysville      | Ohio           | .24          |     |     |     |     | T.  | T.  | .40 | .06 | .04 | .02 | T.  |     | T.  |     | .01 |     |     | .25 |     |     | .03 |     | .15 | .41 | .13 |      | .53 | .14  | T.  |      | 2.41  |      |
| Clymer          | Conemaugh      |              |     |     |     |     |     | *   | .31 | .13 | .37 | .06 | T.  |     |     | T.  |     |     |     | .04 |     |     | .04 |     | .38 |     | .30 | T.   | .80 | T.   |     | .07  | 2.50  |      |
| Confluence      | Youghiogheny   | .62          | .15 |     |     |     | .05 | .05 | .10 | .07 | .35 | .10 |     | T.  |     |     | .04 | T.  | T.  | .10 | .14 |     |     | .04 |     | .40 | .25 |      | .60 | T.   |     |      | 3.02  |      |
| Corry           | Allegheny      |              |     |     | .01 | .02 | .01 | .92 | .30 | .23 | .08 | .06 |     |     |     |     |     |     |     | .10 | .13 |     |     |     | .08 | .11 | .10 |      | .72 | .05  | .01 |      | 2.98  |      |
| Coudersport     | Allegheny      |              |     | .03 |     |     | .35 | .61 | .16 | .02 | .05 |     |     |     |     |     | .20 |     | .30 | .13 | .09 |     |     |     | .37 | .17 |     | .04  | .44 | .04  |     | .03  | 3.03  |      |
| Derry           | Conemaugh      | .33          |     |     |     |     |     | .21 | .17 | .16 | T.  | T.  | T.  |     |     | .03 | .02 |     |     | .30 | .03 |     | T.  | .15 | .09 | .52 | .12 |      | .40 | .05  | .06 |      | 2.64  |      |
| Donora          | Monongahela    |              | .25 |     |     |     | T.  | .02 | T.  | .18 | T.  | T.  | T.  | T.  |     |     | T.  | .02 |     | .30 | .03 | T.  |     | .10 | .02 | .50 | .25 |      | .22 | .20  | T.  |      | 2.09  |      |
| Ebensburg       | Conemaugh      | .36          |     |     |     |     | T.  |     | .45 | .16 | .11 |     |     |     |     |     |     |     |     | .23 |     |     | .09 |     | .05 |     |     |      | .53 | T.   | T.  |      | 1.78  |      |
| Elk Lick        | Youghiogheny   | .30          | .20 |     |     |     |     | .40 |     | .70 | .20 | .20 |     |     |     |     |     |     |     | .20 |     | .20 |     | .25 |     | .75 |     | 1.15 |     |      | .10 |      | 4.65  |      |
| Falls Creek     | Allegheny      | .06          |     |     |     |     |     | .25 | .40 | .36 |     | .03 |     |     |     |     |     |     |     | .07 |     |     |     |     | .06 | .51 |     |      | .74 | .16  | .04 |      | 2.68  |      |
| Franklin        | Allegheny      |              |     |     |     |     |     | .17 | .55 | .10 | .03 | .02 |     |     |     |     |     | .04 |     | .09 |     |     |     |     | .26 | .15 |     | .04  | .69 | .05  |     |      | 2.19  |      |
| Freeport        | do             | .09          | .07 |     |     |     | T.  |     | .21 | .12 | .03 | .01 | T.  | T.  |     |     |     |     |     | .25 | .01 |     |     | .04 |     | .42 | .17 |      |     | .76  | .02 | T.   |       | 2.20 |
| Greensboro      | Monongahela    | .68          | .28 |     |     |     | .02 | .04 | .17 | .04 | .02 | .02 | T.  | T.  | .06 | .01 |     | .04 | .02 | .09 | .24 |     |     | .08 |     | .51 | .20 |      |     | .35  | T.  | T.   |       | 2.87 |
| Greensburg      | Youghiogheny   | .24          | T.  |     |     | T.  | .03 | .01 | .24 | .35 | .10 | .02 | .05 |     |     |     | T.  | .02 | T.  |     | .37 | T.  |     | T.  | .20 | .04 | .56 | .11  |     | .45  | .11 | T.   |       | 2.90 |
| Greenville      | Beaver         |              |     |     |     |     |     | T.  | .40 | .12 | .03 | T.  | T.  |     |     |     | T.  |     |     | .05 |     |     |     |     | .05 | .05 | .06 |      | .43 | .10  |     |      | 1.29  |      |
| Grove City      | do             | .10          |     |     |     |     | .01 |     | .49 | .44 | .06 | T.  |     |     |     |     | .20 |     |     | .17 |     |     |     |     | .11 | .39 | .24 |      | .66 | .18  | .09 |      | 3.14  |      |
| Herrs Isl. Dam  | Ohio           | .12          | .04 |     |     |     |     | T.  | .23 | .13 | .03 | .02 | .02 | T.  |     | .11 | T.  | .03 |     | .29 | .15 |     |     |     | .10 | .38 | .17 | T.   | .01 | .50  | T.  |      | 2.33  |      |
| Ingram          | Ohio           | .19          |     |     |     |     | T.  | T.  | .35 | .10 | .05 | T.  | .01 |     |     | .18 | .01 | T.  |     | .47 | T.  |     |     | .04 | .06 | .08 | .40 | .05  |     | .61  | .03 | T.   |       | 2.63 |
| Irwin           | Youghiogheny   | .12          |     |     |     |     | T.  | T.  | .18 | .05 | .01 | T.  | .02 |     |     |     | .04 | .04 | T.  |     | .22 | .02 |     | T.  | .09 | .12 | .42 | .06  |     | .44  | .10 | .02  |       | 1.95 |
| Johnstown       | Conemaugh      | .48          | T.  |     |     |     | T.  | .04 | .04 | .43 | .18 | .12 | .04 | .05 |     |     |     | T.  | T.  |     | .30 | .02 |     | .05 | T.  | .26 | .31 | .05  |     | .60  | .06 |      |       | 3.03 |
| Kegonsa         | Youghiogheny   | .26          | .30 |     |     | T.  | .02 | T.  | .19 | .23 | .33 | .12 | .05 | .06 |     |     | T.  | .04 | T.  |     | .13 |     |     | .07 |     | .40 | .37 | T.   |     | .14  | T.  | 1.03 |       | 3.81 |
| Lake Lynn       | Monongahela    | .07          | .17 |     |     |     | .08 | .06 | .16 | .13 | .06 | .03 | .01 | T.  | .15 |     | .01 | .02 | .05 | .08 | .34 | T.  |     | .06 |     | .20 | .27 |      | .01 | .32  | .01 |      | 2.29  |      |
| Linesville      | Beaver         |              |     |     |     |     |     | .50 | .20 | .19 | .09 | .04 |     |     |     |     |     |     |     | .21 |     |     |     |     | .31 | .09 |     |      | .31 | T.   |     |      | 1.73  |      |
| Lock No. 2      | Ohio           | .15          | .02 |     |     |     | .01 |     | .20 | .19 | .03 | .01 | .01 | T.  |     |     |     | T.  | T.  |     | .21 | .03 |     | .04 |     | .43 | .24 |      | .04 | .63  | T.  | T.   |       | 2.24 |
| Lock No. 4      | Monongahela    | .15          | .13 |     |     |     | T.  | .01 | .14 | .06 | .03 | .02 | T.  |     |     |     |     | T.  | .03 | .02 | .17 | .18 |     |     | .05 | .48 | .20 |      | .03 | .40  | .02 |      | 2.12  |      |
| Lycippus        | Conemaugh      | .50          |     |     |     |     | T.  | T.  | .20 | .13 | .21 | .09 | .09 |     |     |     |     | T.  |     |     | .67 |     |     | .05 |     | .37 | .58 | .17  |     | .21  |     | T.   |       | 3.27 |
| McKeesport      | Monongahela    | .12          | .01 |     |     |     |     | T.  | .15 | .06 | .03 | T.  | T.  | T.  |     | .07 | T.  |     |     | .19 | .05 |     |     | .02 |     | .34 | .11 |      | T.  | .43  | T.  |      | 1.58  |      |
| Meadville       | Allegheny      |              |     |     |     |     |     | T.  | .54 | .29 | .12 | .06 | .03 |     |     |     |     | .03 |     |     | .20 |     |     |     |     | .13 | .13 |      |     | .40  | .08 | .03  |       | 2.04 |
| Mount Lebanon   | Ohio           | .14          |     |     | T.  |     | T.  | T.  | .33 | .11 | .05 | T.  | T.  |     |     | .06 | T.  |     |     | .49 | T.  |     | .02 |     | .30 | .31 | .06 |      | .41 | .03  | .01 |      | 2.32  |      |
| Natrona         | Allegheny      | .08          | .05 |     |     |     | T.  | .20 | .09 | .04 | .01 | T.  | T.  |     |     |     |     |     | T.  | .23 | .02 |     |     | .04 |     | .48 | .20 |      |     | .71  | .01 |      | 2.16  |      |
| New Castle      | Beaver         | .06          |     |     |     | T.  | T.  | .01 | .42 | .08 | .09 | .03 | .05 | .01 |     |     | .07 | .01 |     | .14 | .01 |     | .05 |     | .31 | .18 |     | .21  | .43 | .02  | .01 |      | 2.19  |      |
| Newell          | Monongahela    | .26          |     |     |     |     | .01 |     | .05 |     |     |     |     |     |     |     | .26 |     |     | .29 |     |     |     | .06 | .32 | .10 | .20 |      | .48 |      |     |      | 2.03  |      |
| Parkers Landing | Allegheny      | .06          | T.  |     |     |     | T.  | T.  | .18 | .20 | .22 | T.  | T.  | T.  |     |     |     | .03 | T.  |     | .05 | .03 |     |     |     | .34 | .09 |      | T.  | .81  | T.  | T.   |       | 2.01 |
| Pennline        | Beaver         |              |     |     |     |     |     | .35 | .25 | .29 | .08 | .05 | T.  |     |     |     | .05 | T.  |     | .14 | T.  |     |     |     |     | .25 | .02 |      | .25 | .34  |     |      | 2.07  |      |
| Pittsburgh      | Ohio           | .17          | T.  | T.  | T.  | T.  | T.  | .03 | .32 | .11 | .02 | T.  | .01 |     | .10 | .05 | T.  | .01 | T.  | .41 | T.  |     | .07 |     | .38 | .22 |     |      | .53 | .01  | T.  | .04  | 2.48  |      |
| Punxsutawney    | Allegheny      |              |     |     |     |     |     | .46 | .38 | .20 | T.  | T.  |     |     |     |     |     | T.  | T.  |     | T.  | T.  |     |     |     | .70 | .30 |      |     | 1.10 | T.  |      | 3.14  |      |
| Ridgway         | do             | .04          | .07 |     |     |     | T.  | T.  | .42 | .56 | .05 | .02 | .02 | T.  |     |     |     | T.  |     |     | T.  |     |     |     |     | .26 | .06 |      | *   | .55  | .02 | T.   |       | 2.07 |
| Saltsburg       | Conemaugh      | .06          | .06 |     |     |     | .02 | T.  | .15 | .21 | .18 | .04 | .01 | T.  |     |     | .03 | T.  | T.  | .12 | .10 |     |     | .04 |     | .30 | .07 |      |     | .46  | .01 |      | 1.86  |      |
| Sharon          | Beaver         |              |     |     |     |     |     | .30 | .14 | .12 | .06 | .02 | T.  |     |     |     | .07 |     |     | .09 |     |     |     |     | .13 | .12 |     |      | .17 | .18  | .05 | T.   | 1.45  |      |
| Somerset        | Youghiogheny   | .56          |     |     |     |     | T.  | .03 | .30 | .24 | .14 | .02 | .11 |     |     |     |     | T.  | .04 | .10 | .03 |     | .05 | .02 | .05 | .31 | .08 |      | .35 | .19  |     |      | 2.62  |      |
| Springdale      | Allegheny      | .10          | .06 |     |     |     |     | T.  | .25 | .22 | .04 | .05 | T.  | T.  |     |     |     | T.  | .02 | .01 | .24 | .07 |     |     | .08 |     | .63 | .23  |     | .62  | .02 | .01  |       | 2.65 |
| Uniontown       | Monongahela    | .77          |     |     |     |     | .03 | T.  | .19 | .11 | .07 | .01 | .01 |     | T.  | .02 | .09 | .05 |     | .24 | .05 |     | .02 | .05 | .05 | .67 | .16 |      | .20 | .01  | .02 | T.   | 2.82  |      |
| Unity Reservoir | Youghiogheny   | .31          |     |     |     |     | .05 | T.  | .28 | .20 | .14 | T.  | .04 |     |     |     | T.  | T.  | T.  |     | .37 |     |     | T.  | .21 | .02 | .55 | .46  |     | .20  | .20 |      | 3.03  |      |
| Vandergrift     | Conemaugh      |              |     |     |     |     |     |     | .31 | .09 | .02 |     |     |     |     |     |     |     |     | .04 |     |     |     |     |     | .60 | .20 |      |     | .44  | .15 |      | 1.85  |      |
| Warren          | Allegheny      |              |     |     |     |     | .03 |     | .60 | .15 | .15 | .10 | .04 | .04 |     |     |     |     | .02 |     | .09 |     |     |     |     | .37 |     |      | .60 | .28  |     | .02  | 2.49  |      |
| Westford        | Beaver         |              |     |     |     |     |     | .13 | .16 | .19 |     |     |     |     |     |     |     |     |     | .08 |     |     |     |     | .38 |     |     | .25  | .29 |      |     |      | 1.40  |      |
| West Newton     | Youghiogheny   | .15          | .11 |     |     |     | .02 | .02 | .09 | .06 | .05 | T.  | T.  | T.  |     |     | .03 |     |     | .20 | .21 |     |     | .08 |     | .45 | .19 |      | .03 | .32  |     |      | 2.01  |      |
| Zelenople       | Ohio           |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |       |      |
| Lake Drainage.  |                |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |       |      |
| Erie            | Lake Erie      |              | T.  | T.  | T.  | .01 | T.  | .12 | .70 | .24 | .16 | .02 | T.  |     |     |     | T.  | .04 | T.  | .06 | .08 | T.  |     |     |     | .09 | .02 | T.   | T.  | .36  | .10 | T.   |       | 2.00 |



Daily Temperatures for March, 1931

| Stations           | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum | 44    | 40    | 39    | 41    | 43    | 43    | 37    | 41    | 39    | 34 | 36 | 40 | 44 | 47 | 43 | 36 | 47 | 47 | 39 | 43 | 51 | 45 | 55 | 56 | 48 | 56 | 58 | 44 | 50 | 42 | 46   | 44.3 |      |
|                    | Minimum | 28    | 27    | 23    | 27    | 32    | 32    | 27    | 30    | 30    | 29 | 26 | 28 | 30 | 31 | 32 | 33 | 31 | 30 | 33 | 32 | 26 | 30 | 33 | 31 | 38 | 35 | 30 | 34 | 36 | 35 | 36   | 30.8 |      |
| Altoona.....       | Maximum | 48    | 37    | 38    | 36    | 40    | 37    | 37    | 35    | 30    | 28 | 29 | 32 | 39 | 46 | 44 | 34 | 39 | 45 | 41 | 46 | 48 | 39 | 54 | 52 | 43 | 48 | 54 | 50 | 40 | 33 | 44   | 40.8 |      |
|                    | Minimum | 32    | 22    | 20    | 24    | 25    | 24    | 24    | 28    | 27    | 20 | 18 | 21 | 22 | 23 | 31 | 25 | 26 | 30 | 30 | 21 | 30 | 30 | 28 | 33 | 34 | 30 | 39 | 34 | 29 | 30 | 26.9 |      |      |
| Beaver Dam.....    | Maximum | 60    | 40    | 35    | 37    | 38    | 40    | 45    | 45    | 33    | 30 | 29 | 34 | 43 | 48 | 47 | 37 | 39 | 42 | 42 | 45 | 51 | 50 | 55 | 45 | 45 | 47 | 59 | 59 | 49 | 36 | 43.6 |      |      |
|                    | Minimum | 33    | 27    | 22    | 20    | 23    | 21    | 28    | 32    | 29    | 22 | 18 | 23 | 21 | 29 | 31 | 27 | 28 | 31 | 32 | 29 | 24 | 31 | 34 | 30 | 39 | 36 | 35 | 46 | 33 | 31 | 32   | 28.9 |      |
| Bellefonte.....    | Maximum | 43    | 35    | 38    | 36    | 39    | 41    | 33    | 36    | 34    | 27 | 31 | 34 | 42 | 46 | 38 | 37 | 38 | 45 | 35 | 46 | 50 | 41 | 54 | 50 | 45 | 48 | 56 | 48 | 44 | 35 | 45   | 41.0 |      |
|                    | Minimum | 30    | 22    | 19    | 26    | 26    | 25    | 23    | 28    | 25    | 22 | 21 | 24 | 24 | 23 | 30 | 29 | 23 | 25 | 31 | 28 | 22 | 29 | 30 | 24 | 37 | 36 | 26 | 37 | 32 | 30 | 31   | 27.0 |      |
| Brookville.....    | Maximum | 60    | 40    | 33    | 31    | 35    | 40    | 40    | 35    | 35    | 34 | 29 | 30 | 32 | 42 | 43 | 41 | 42 | 40 | 42 | 36 | 45 | 50 | 51 | 57 | 49 | 41 | 40 | 58 | 48 | 42 | 32   | 41.1 |      |
|                    | Minimum | 19    | 27    | 23    | 25    | 23    | 19    | 20    | 20    | 28    | 22 | 17 | 19 | 19 | 16 | 14 | 29 | 27 | 21 | 28 | 29 | 23 | 24 | 23 | 24 | 21 | 34 | 32 | 28 | 31 | 29 | 29   | 24.0 |      |
| Butler.....        | Maximum | 33    | 36    | 35    | 40    | 39    | 38    | 40    | 38    | 30    | 30 | 30 | 31 | 44 | 47 | 38 | 40 | 40 | 45 | 44 | 46 | 50 | 42 | 60 | 56 | 43 | 48 | 60 | 56 | 44 | 36 | 44   | 42.0 |      |
|                    | Minimum | 27    | 26    | 21    | 23    | 23    | 22    | 24    | 26    | 20    | 17 | 21 | 17 | 26 | 26 | 26 | 30 | 25 | 32 | 32 | 20 | 26 | 32 | 20 | 38 | 34 | 34 | 43 | 32 | 29 | 31 | 26.6 |      |      |
| Carlisle.....      | Maximum | 54    | 44    | 44    | 40    | 46    | 48    | 44    | 41    | 39    | 36 | 38 | 41 | 50 | 52 | 50 | 35 | 47 | 51 | 50 | 49 | 56 | 49 | 62 | 60 | 50 | 57 | 60 | 60 | 43 | 40 | 50   | 47.9 |      |
|                    | Minimum | 38    | 28    | 19    | 30    | 31    | 30    | 28    | 32    | 30    | 28 | 23 | 28 | 30 | 23 | 33 | 31 | 31 | 31 | 34 | 33 | 23 | 29 | 35 | 23 | 39 | 39 | 29 | 38 | 38 | 35 | 35   | 30.8 |      |
| Catawissa.....     | Maximum | 44    | 47    | 42    | 39    | 43    | 44    | 46    | 47    | 38    | 35 | 36 | 43 | 48 | 49 | 38 | 49 | 50 | 40 | 51 | 55 | 51 | 61 | 59 | 58 | 57 | 62 | 50 | 46 | 39 | 52 | 47.4 |      |      |
|                    | Minimum | 34    | 27    | 32    | 30    | 28    | 23    | 25    | 32    | 29    | 27 | 25 | 27 | 27 | 28 | 32 | 30 | 27 | 30 | 31 | 23 | 29 | 32 | 25 | 40 | 39 | 28 | 34 | 36 | 24 | 35 | 29.7 |      |      |
| Chambersburg.....  | Maximum | 45    | 43    | 45    | 45    | 48    | 49    | 45    | 40    | 43    | 35 | 38 | 41 | 52 | 51 | 47 | 37 | 45 | 52 | 45 | 49 | 55 | 44 | 62 | 51 | 52 | 58 | 52 | 48 | 47 | 45 | 50   | 47.1 |      |
|                    | Minimum | 39    | 28    | 24    | 28    | 29    | 29    | 32    | 32    | 31    | 26 | 23 | 24 | 29 | 33 | 32 | 31 | 30 | 30 | 33 | 31 | 24 | 33 | 35 | 29 | 35 | 38 | 31 | 39 | 36 | 34 | 34   | 31.0 |      |
| Chambersville..... | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 18 | 21 | 17 | 20 | 30 | 25 | 28 | 20 | 32 | 29 | 16 | 32 | 25 | 23 | 37 | 35 | 27 | 42 | 31 | 29 | 30   | 26.7 |      |
|                    | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 28 | 30 | 34 | 45 | 53 | 50 | 38 | 38 | 43 | 41 | 46 | 54 | 53 | 58 | 55 | 51 | 60 | 56 | 52 | 34 | 48 | 44.8 |      |      |
| Claysville.....    | Maximum | 57    | 38    | 35    | 39    | 38    | 41    | 48    | 43    | 31    | 28 | 30 | 34 | 45 | 53 | 50 | 38 | 38 | 43 | 41 | 46 | 54 | 53 | 58 | 55 | 51 | 60 | 56 | 52 | 34 | 48 | 44.8 |      |      |
|                    | Minimum | 32    | 24    | 19    | 20    | 20    | 21    | 28    | 29    | 27    | 19 | 16 | 22 | 17 | 30 | 30 | 27 | 23 | 30 | 32 | 29 | 24 | 34 | 33 | 32 | 37 | 35 | 33 | 47 | 31 | 29 | 31   | 27.8 |      |
| Clearfield.....    | Maximum | 55    | 40    | 41    | 43    | 42    | 45    | 37    | 36    | 35    | 40 | 35 | 37 | 43 | 41 | 41 | 42 | 41 | 43 | 41 | 43 | 48 | 55 | 45 | 53 | 52 | 56 | 60 | 62 | 52 | 42 | 40   | 48   | 44.9 |
|                    | Minimum | 32    | 21    | 21    | 21    | 21    | 21    | 27    | 26    | 21    | 19 | 21 | 21 | 17 | 29 | 26 | 25 | 21 | 32 | 28 | 18 | 30 | 30 | 24 | 32 | 28 | 28 | 28 | 28 | 21 | 25 | 30   | 25.2 |      |
| Coatesville.....   | Maximum | 45    | 42    | 40    | 42    | 44    | 45    | 38    | 54    | 41    | 37 | 35 | 40 | 46 | 47 | 41 | 36 | 44 | 47 | 43 | 52 | 43 | 54 | 57 | 52 | 57 | 59 | 44 | 52 | 45 | 45 | 45   | 45.5 |      |
|                    | Minimum | 35    | 29    | 24    | 32    | 32    | 30    | 32    | 30    | 28    | 25 | 27 | 30 | 27 | 30 | 32 | 31 | 30 | 32 | 33 | 29 | 29 | 36 | 35 | 40 | 40 | 35 | 36 | 40 | 35 | 36 | 31   | 31.9 |      |
| Corry.....         | Maximum | 47    | 29    | 30    | 33    | 39    | 35    | 39    | 37    | 29    | 29 | 29 | 31 | 35 | 37 | 41 | 37 | 38 | 39 | 40 | 42 | 51 | 54 | 54 | 51 | 40 | 39 | 58 | 52 | 41 | 31 | 42   | 39.7 |      |
|                    | Minimum | 28    | 20    | 25    | 23    | 19    | 24    | 19    | 29    | 26    | 18 | 20 | 21 | 15 | 23 | 21 | 25 | 28 | 33 | 24 | 26 | 20 | 28 | 22 | 29 | 35 | 33 | 31 | 32 | 30 | 28 | 28   | 25.3 |      |
| Emporium.....      | Maximum | 41    | 35    | 35    | 35    | 39    | 37    | 35    | 37    | 36    | 30 | 33 | 36 | 39 | 43 | 36 | 39 | 39 | 42 | 39 | 45 | 48 | 45 | 53 | 50 | 44 | 46 | 57 | 53 | 44 | 35 | 46   | 41.0 |      |
|                    | Minimum | 32    | 23    | 23    | 23    | 26    | 29    | 18    | 32    | 30    | 26 | 23 | 25 | 28 | 28 | 32 | 30 | 26 | 22 | 32 | 28 | 18 | 22 | 22 | 22 | 36 | 36 | 35 | 40 | 34 | 30 | 32   | 28.0 |      |
| Erie.....          | Maximum | 33    | 30    | 34    | 35    | 37    | 34    | 40    | 35    | 31    | 26 | 27 | 32 | 32 | 37 | 37 | 36 | 36 | 35 | 34 | 41 | 47 | 50 | 48 | 51 | 42 | 39 | 54 | 50 | 38 | 33 | 40   | 37.9 |      |
|                    | Minimum | 25    | 26    | 29    | 28    | 27    | 28    | 23    | 30    | 26    | 21 | 25 | 27 | 26 | 28 | 31 | 29 | 31 | 30 | 30 | 31 | 30 | 37 | 35 | 39 | 34 | 35 | 34 | 38 | 32 | 31 | 31   | 29.9 |      |
| Franklin.....      | Maximum | 41    | 32    | 35    | 35    | 41    | 38    | 37    | 36    | 33    | 27 | 29 | 35 | 40 | 45 | 37 | 37 | 37 | 37 | 37 | 41 | 47 | 38 | 54 | 58 | 60 | 48 | 41 | 47 | 60 | 46 | 34   | 33   | 42.0 |
|                    | Minimum | 17    | 23    | 25    | 26    | 24    | 25    | 20    | 22    | 21    | 21 | 19 | 22 | 14 | 20 | 25 | 27 | 27 | 24 | 27 | 27 | 22 | 22 | 29 | 25 | 28 | 34 | 32 | 32 | 29 | 30 | 29.9 |      |      |
| Freeland.....      | Maximum | 43    | 35    | 38    | 34    | 35    | 39    | 33    | 34    | 32    | 29 | 30 | 33 | 35 | 43 | 38 | 34 | 39 | 39 | 32 | 38 | 50 | 42 | 51 | 50 | 43 | 45 | 55 | 46 | 41 | 34 | 45   | 39.2 |      |
|                    | Minimum | 31    | 19    | 16    | 23    | 23    | 21    | 20    | 24    | 24    | 20 | 18 | 20 | 22 | 23 | 28 | 26 | 28 | 22 | 26 | 26 | 24 | 26 | 28 | 30 | 32 | 34 | 28 | 28 | 33 | 27 | 27   | 25.1 |      |
| Genesee.....       | Maximum | 45    | 30    | 30    | 30    | 35    | 32    | 35    | 36    | 35    | 30 | 31 | 32 | 31 | 38 | 36 | 37 | 35 | 38 | 35 | 38 | 42 | 41 | 45 | 46 | 46 | 46 | 47 | 52 | 42 | 38 | 41   | 38.0 |      |
|                    | Minimum | 28    | 20    | 22    | 22    | 25    | 23    | 19    | 29    | 28    | 20 | 19 | 20 | 23 | 25 | 21 | 27 | 19 | 20 | 28 | 23 | 10 | 16 | 27 | 19 | 33 | 30 | 32 | 36 | 21 | 29 | 28   | 23.9 |      |
| Gettysburg.....    | Maximum | 51    | 44    | 39    | 43    | 45    | 45    | 44    | 40    | 37    | 35 | 37 | 39 | 49 | 47 | 47 | 36 | 44 | 47 | 47 | 47 | 54 | 49 | 56 | 54 | 50 | 54 | 69 | 55 | 47 | 45 | 47   | 46.5 |      |
|                    | Minimum | 39    | 29    | 25    | 31    | 30    | 31    | 32    | 33    | 32    | 27 | 23 | 27 | 30 | 29 | 33 | 32 | 31 | 30 | 33 | 32 | 26 | 32 | 36 | 30 | 39 | 38 | 33 | 39 | 39 | 35 | 35   | 32.0 |      |
| Greensburg.....    | Maximum | 54    | 37    | 36    | 36    | 38    | 38    | 45    | 41    | 31    | 28 | 29 | 33 | 42 | 51 | 45 | 40 | 39 | 46 | 43 | 47 | 53 | 46 | 54 | 51 | 45 | 51 | 60 | 52 | 45 | 34 | 47   | 43.8 |      |
|                    | Minimum | 36    | 25    | 22    | 26    | 24    | 22    | 29    | 26    | 20    | 19 | 23 | 19 | 30 | 31 | 29 | 31 | 30 | 33 | 30 | 26 | 33 | 28 | 32 | 38 | 35 | 32 | 43 | 32 | 30 | 30 | 28.8 |      |      |
| Grove City.....    | Maximum | 57    | 33    | 32    | 37    | 40    | 41    | 46    | 38    | 32    | 28 | 34 | 35 | 43 | 40 | 38 | 37 | 41 | 41 | 36 | 45 | 50 | 49 | 55 | 63 | 54 | 55 | 60 | 55 | 45 | 47 | 51   | 43.8 |      |
|                    | Minimum | 21    | 21    | 25    | 22    | 21    | 21    | 23    | 28    | 25    | 19 | 16 | 20 | 12 | 22 | 23 | 27 | 29 | 22 | 30 | 26 | 25 | 31 | 29 | 35 | 33 | 30 | 25 | 38 | 26 | 24 | 22   | 24.7 |      |
| Hamburg.....       | Maximum | 48    | 45    | 42    | 41    | 44    | 44    | 43    | 44    | 38    | 36 | 34 | 41 | 46 | 48 | 40 | 34 | 46 | 48 | 46 | 43 | 52 | 50 | 58 | 57 | 52 | 56 | 58 | 57 | 48 | 45 | 50   | 46.3 |      |
|                    | Minimum | 30    | 28    | 24    | 30    | 30    | 31    | 23    | 30    | 29    | 30 | 25 | 26 | 30 | 28 | 29 | 32 | 32 | 31 | 30 | 31 | 27 | 26 | 30 | 30 | 37 | 41 | 29 | 34 | 39 | 35 | 36   | 30.4 |      |
| Harrisburg.....    | Maximum | 46    | 40    | 41    | 39    | 42    | 43    | 38    | 40    | 38    | 33 | 36 | 38 | 46 | 51 | 42 | 34 | 46 | 46 | 40 | 46 | 51 | 45 | 57 | 52 | 48 | 53 | 56 | 47 | 46 | 41 | 44   | 44.0 |      |
|                    | Minimum | 37    | 30    | 25    | 32    | 32    | 33    | 32    | 32    | 27    | 26 | 29 | 32 | 31 | 34 | 32 | 32 | 34 | 33 | 34 | 33 | 38 | 36 | 41 | 41 | 37 | 38 | 37 | 36 | 36 | 33 | 34   | 33.4 |      |
| Hawley.....        | Maximum | 48    | 39    | 39    | 38    | 40    | 42    | 40    | 36    | 34    | 35 | 35 | 34 | 42 | 43 | 41 | 45 | 43 | 38 | 43 | 51 | 49 | 56 | 57 | 51 | 54 | 61 | 59 | 44 | 40 | 44 | 43.7 |      |      |
|                    | Minimum | 26    | 21    | 10    | 29    | 26    | 21    | 19    | 28    | 28    | 24 | 24 | 28 | 27 | 23 | 29 | 29 | 23 | 25 | 29 | 20 | 20 | 29 |    |    |    |    |    |    |    |    |      |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

APRIL, 1931.

No. 4

## GENERAL SUMMARY.

April was very nearly a normal month as regards both temperature and precipitation, and was generally favorable for agriculture with the exception of a cold period with widespread frosts near the end of the month. The frost damage was confined chiefly to valley lands and to locations having poor air drainage. In those places, tender vegetation was nipped, and orchard fruits were damaged to a greater or less extent. However, the fruit that was killed was a comparatively small portion of the total crop. Good soaking rains were frequent and general during the first week. They supplemented fairly heavy rains that occurred near the end of March, and replenished the surface water supply. The soil was fairly well soaked to a depth of a foot or more, ponds were filled, and a good flow of water was established in all of the streams. This surface water gradually seeped away, due to the dry conditions of the deep soil, and the stages of the streams slowly subsided to the end of the month despite the fairly heavy rains that occurred during the last decade. From the 12th to the 21st inclusive the sunshine was almost 100 percent of the possible. This period was highly favorable for field work which made good progress, and it stimulated a rapid growth in crops. In about one-third of the State, comprising the southeastern portion, there was practically no snow during the month. There were some heavy local snows in the northwestern counties. The heaviest snows occurred in a narrow curved belt including Bradford, Clearfield, and Somerset counties. Towanda reported a snowfall of sixteen inches on the 6-7th. It was a moist snow and melted within 48 hours. Clearfield and Somerset counties reported a foot or more of snow for the month, but in each case it was a total of three snow storms instead of falling on a single date as it did at Towanda. None of the snows remained on the ground more than 24 to 36 hours. There were no severe or damaging storms during the month. Moderate thunderstorms occurred on three dates in the western portion of the State, but only on one date in the eastern counties. At the close of the month farm work was reported to be at about an average stage of advancement. Crops were a little backward in the western counties, and nearly normal elsewhere.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 89 stations, was 48.4°, which is 0.3° less than the April normal. The highest monthly mean was 54.6° at Marcus Hook,

and the lowest was 41.4° at Montrose. Extremes for the month ranged from a maximum of 85° at Hyndman, on the 9th, and also at Phoenixville, on the 15th, to a minimum of 16° at Ridgeway, on the 24th. The greatest daily range of temperature was 60° at Clearfield, on the 24th.

## PRECIPITATION.

The average precipitation for the State, as determined from observations taken at 143 stations, was 3.33 inches, which is a deficiency of 0.11 inch as compared with the normal for the month. The greatest monthly total was 5.93 inches at Lycipus, while the least, 1.00 inch, was reported from Montrose. The greatest amount recorded in any 24-hour period was 1.80 inches, at Altoona on the 22-23d. Snowfall for the State averaged 2.3 inches, which is 0.2 inch less than normal. The greatest monthly total was 17.2 inches at Towanda, which station also reported the greatest 24-hour amount: 16.0 inches in the storm of April 6-7th.

## COMPARATIVE DATA FOR APRIL.

| Year          | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|---------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|               | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....     | 47.2        | 92      | 12     | 2.52          | 4.23     | 0.99  | 14          | 10            | 6      | 8                      |
| 1889.....     | 49.7        | 88      | 14     | 4.50          | 8.15     | 2.09  | 11          | 8             | 11     | 11                     |
| 1890.....     | 48.6        | 85      | 12     | 3.46          | 5.50     | 1.75  | .....       | .....         | .....  | .....                  |
| 1891.....     | 49.8        | 87      | 11     | 2.08          | 3.54     | 1.12  | 13          | 9             | 8      | 8                      |
| 1892.....     | 46.9        | 85      | 14     | 2.04          | 4.43     | 0.61  | 10          | 10            | 10     | 10                     |
| 1893.....     | 47.7        | 85      | 16     | 4.74          | 6.91     | 2.95  | 7           | 10            | 13     | 14                     |
| 1894.....     | 48.0        | 83      | 5      | 3.62          | 10.00    | 1.69  | 11          | 8             | 11     | 11                     |
| 1895.....     | 49.2        | 90      | 5      | 3.76          | 7.09     | 0.79  | 10          | 8             | 12     | 10                     |
| 1896.....     | 53.0        | 97      | 4      | 1.75          | 3.39     | 0.20  | 10          | 10            | 10     | 8                      |
| 1897.....     | 49.0        | 92      | 12     | 3.30          | 4.63     | 1.20  | 12          | 9             | 9      | 10                     |
| 1898.....     | 45.6        | 84      | 4      | 2.93          | 5.34     | 1.36  | 9           | 8             | 13     | 12                     |
| 1899.....     | 50.2        | 92      | 2      | 1.76          | 3.25     | 0.70  | 15          | 9             | 6      | 6                      |
| 1900.....     | 49.2        | 90      | 13     | 1.57          | 2.80     | 0.60  | 14          | 8             | 8      | 8                      |
| 1901.....     | 47.2        | 95      | 10     | 5.41          | 9.18     | 1.46  | 9           | 5             | 16     | 11                     |
| 1902.....     | 48.0        | 91      | 20     | 3.56          | 7.14     | 1.34  | 8           | 10            | 12     | 9                      |
| 1903.....     | 48.8        | 90      | 12     | 3.53          | 4.93     | 2.16  | 11          | 7             | 12     | 10                     |
| 1904.....     | 44.7        | 86      | 9      | 3.45          | 6.42     | 1.34  | 8           | 8             | 14     | 13                     |
| 1905.....     | 48.4        | 84      | 16     | 2.84          | 4.74     | 1.39  | 9           | 11            | 10     | 12                     |
| 1906.....     | 50.0        | 89      | 12     | 3.13          | 6.96     | 0.75  | 14          | 8             | 8      | 9                      |
| 1907.....     | 43.6        | 84      | 8      | 2.64          | 4.42     | 1.02  | 10          | 7             | 13     | 11                     |
| 1908.....     | 49.8        | 89      | 0      | 3.51          | 6.31     | 1.85  | 12          | 8             | 10     | 12                     |
| 1909.....     | 48.5        | 87      | 8      | 5.39          | 8.42     | 2.67  | 10          | 9             | 11     | 13                     |
| 1910.....     | 52.6        | 89      | 18     | 5.07          | 8.50     | 2.21  | 10          | 9             | 11     | 13                     |
| 1911.....     | 46.2        | 84      | 6      | 3.79          | 5.85     | 1.66  | 11          | 7             | 12     | 13                     |
| 1912.....     | 50.2        | 83      | 18     | 4.39          | 7.31     | 2.41  | 10          | 7             | 13     | 15                     |
| 1913.....     | 50.6        | 90      | 17     | 3.82          | 9.28     | 1.46  | 12          | 6             | 12     | 11                     |
| 1914.....     | 47.3        | 93      | 5      | 4.66          | 7.50     | 1.90  | 10          | 8             | 12     | 14                     |
| 1915.....     | 53.9        | 98      | 15     | 1.92          | 4.41     | 0.46  | 13          | 10            | 7      | 8                      |
| 1916.....     | 48.0        | 87      | 16     | 3.65          | 7.40     | 1.65  | 9           | 9             | 12     | 14                     |
| 1917.....     | 48.5        | 87      | 14     | 2.08          | 4.89     | 0.41  | 11          | 10            | 9      | 9                      |
| 1918.....     | 43.2        | 81      | 12     | 4.53          | 2.41     | 0.30  | 10          | 9             | 11     | 14                     |
| 1919.....     | 48.5        | 90      | 6      | 2.70          | 4.76     | 0.90  | 10          | 10            | 10     | 11                     |
| 1920.....     | 46.0        | 87      | 8      | 4.39          | 11.34    | 2.44  | 9           | 9             | 12     | 16                     |
| 1921.....     | 55.3        | 96      | 10     | 3.11          | 5.06     | 1.12  | 13          | 7             | 10     | 11                     |
| 1922.....     | 50.1        | 91      | 11     | 3.17          | 6.10     | 1.28  | 12          | 9             | 9      | 12                     |
| 1923.....     | 48.3        | 89      | -5     | 2.94          | 5.89     | 1.00  | 14          | 8             | 8      | 9                      |
| 1924.....     | 46.5        | 82      | 6      | 4.15          | 7.52     | 1.77  | 13          | 7             | 10     | 12                     |
| 1925.....     | 51.3        | 96      | 9      | 2.32          | 4.89     | 0.93  | 15          | 7             | 8      | 10                     |
| 1926.....     | 44.9        | 84      | 9      | 2.03          | 4.35     | 0.85  | 12          | 9             | 9      | 9                      |
| 1927.....     | 47.7        | 92      | 17     | 3.52          | 5.59     | 1.65  | 12          | 7             | 11     | 13                     |
| 1928.....     | 46.0        | 88      | 11     | 5.50          | 9.82     | 2.11  | 12          | 8             | 10     | 13                     |
| 1929.....     | 51.4        | 94      | 19     | 6.12          | 8.94     | 3.31  | 9           | 8             | 13     | 15                     |
| 1930.....     | 48.2        | 92      | 9      | 2.71          | 4.43     | 0.66  | 11          | 8             | 11     | 10                     |
| 1931.....     | 48.4        | 85      | 16     | 3.33          | 5.93     | 1.00  | 14          | 6             | 10     | 10                     |
| Normal and..  | 48.7        | .....   | .....  | 3.44          | .....    | ..... | 11          | 8             | 11     | 11                     |
| Extremes..... | .....       | 98      | -5     | .....         | 11.34    | 0.20  | .....       | .....         | .....  | .....                  |



## Climatological Data for April, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                          |       | Prevailing direction of wind | Observers |            |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|--------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                          |       |                              |           |            |                             |
| Allentown          | Lehigh       | 254             | 19                      | 49.1                         | .....                     | 75      | 21   | 29     | 30   | 37                       | 1.79  | -1.97                     | 0.59                 | 0                         | 12                       | 15    | 7                            | 8         | ne.        | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 47.5                         | -0.5                      | 77      | 13   | 23     | 12   | 44                       | 4.17  | +1.04                     | 1.80                 | 4.0                       | 10                       | 20    | 5                            | 5         | w.         | F. E. Rooney.               |
| Arendtsville       | Adams        | 700             | 9                       | 50.2                         | .....                     | 81      | 10   | 27     | 30   | 45                       | 2.85  | .....                     | 1.30                 | 0                         | 8                        | 14    | 8                            | 8         | n.         | Dr. S. W. Frost.            |
| Bellefonte         | Center       | 1,050           | 23                      | 45.7                         | -4.8                      | 76      | 13   | 24     | 12   | 47                       | 3.85  | -0.16                     | 1.28                 | 3.9                       | 11                       | 11    | 4                            | 15        | sw.        | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 51.7                         | +0.2                      | 75      | 19   | 31     | 12   | 33                       | 1.92  | -1.31                     | 0.54                 | 0                         | 10                       | 16    | 4                            | 10        | nw.        | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 51.2                         | -0.9                      | 79      | 19   | 27     | 12   | 46                       | 3.07  | -0.37                     | 1.52                 | T                         | 7                        | 16    | 6                            | 8         | ne.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 49.8                         | -0.6                      | 79      | 20   | 27     | 30   | 45                       | 2.72  | -0.82                     | 0.80                 | T                         | 10                       | 18    | 3                            | 9         | .....      | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 45.5                         | -2.7                      | 78      | 20   | 24     | 6    | 45                       | 3.84  | +0.75                     | 1.10                 | 6.5                       | 9                        | 18    | 2                            | 10        | .....      | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 51.1                         | +1.0                      | 77      | 9    | 29     | 30   | 40                       | 3.06  | -0.01                     | 1.24                 | T                         | 10                       | 12    | 8                            | 10        | ne.        | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 46.0                         | -1.9                      | 83      | 18   | 18     | 12   | 60                       | 4.53  | +0.86                     | 1.22                 | 12.0                      | 12                       | 12    | 9                            | 9         | w.         | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 50.4                         | -0.2                      | 75      | 10   | 30     | 30   | 34                       | 2.73  | -1.04                     | 1.08                 | 0                         | 9                        | 16    | 3                            | 11        | nw.        | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 48.6                         | -0.5                      | 76      | 19   | 23     | 30   | 40                       | 2.67  | -1.43                     | 0.89                 | T                         | 11                       | 14    | 4                            | 12        | w.         | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 44.9                         | -0.9                      | 78      | 21   | 20     | 12   | 50                       | 4.32  | +0.76                     | 1.04                 | 4.0                       | 12                       | 11    | 8                            | 11        | w.         | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 50.6                         | +0.6                      | 76      | 19   | 28     | 30   | 36                       | 2.03  | -1.50                     | 0.67                 | T                         | 7                        | 11    | 7                            | 12        | nw.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 45.4                         | +1.1                      | 73      | 21   | 22     | 12   | 33                       | 3.92  | -0.44                     | 1.12                 | 6.0                       | 13                       | 12    | 4                            | 14        | nw.        | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 50.6                         | +0.4                      | 75      | 19   | 27     | 30   | 36                       | 2.55  | -1.08                     | 0.95                 | 0                         | 9                        | 13    | 8                            | 9         | nw.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 58                      | 51.8                         | +1.1                      | 77      | 10   | 31     | 30   | 38                       | 2.80  | -0.86                     | 1.38                 | T                         | 12                       | 13    | 6                            | 11        | s.         | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 27                      | 47.8                         | +0.1                      | 74      | 19   | 23     | 30   | 46                       | 2.65  | -1.71                     | 1.00                 | 0                         | 10                       | 12    | 9                            | 9         | w.         | Capt. J. G. Johnson         |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 42.7                         | .....                     | 71      | 19   | 20     | 12   | 42                       | 3.88  | +0.07                     | 1.50                 | 1.5                       | 12                       | 16    | 2                            | 12        | nw.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      | 49.4                         | -0.3                      | 76      | 22   | 25     | 28   | 43                       | 2.94  | -1.18                     | 0.87                 | 0                         | 7                        | 13    | 10                           | 7         | w.         | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 52.5                         | -0.1                      | 77      | 19   | 30     | 30   | 35                       | 2.82  | -0.70                     | 1.23                 | T                         | 11                       | 14    | 6                            | 10        | n.         | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 50.9                         | 0.0                       | 76      | 21   | 35     | 30   | 31                       | 2.01  | -0.68                     | 0.97                 | T                         | 8                        | 11    | 8                            | 11        | nw.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 13                      | 46.7                         | +1.1                      | 77      | 20   | 25     | 51   | 49                       | 2.82  | -0.45                     | 1.01                 | 6.5                       | 13                       | 12    | 10                           | 8         | w.         | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 53.0                         | +1.4                      | 79      | 20   | 36     | 30   | 32                       | 2.10  | -0.83                     | 0.64                 | 0                         | 9                        | 13    | 8                            | 9         | nw.        | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 49.2                         | -0.4                      | 81      | 13   | 27     | 8    | 51                       | 4.44  | +1.00                     | 1.28                 | T                         | 9                        | 14    | 6                            | 10        | w.         | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 50.6                         | -0.1                      | 85      | 9    | 24     | 30   | 54                       | 3.45  | -0.32                     | 1.05                 | 0.5                       | 10                       | 11    | 6                            | 13        | .....      | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 48.2                         | -0.9                      | 74      | 19   | 24     | 30   | 42                       | 1.89  | -1.60                     | 0.60                 | 0                         | 6                        | 19    | 5                            | 6         | nw.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 45.8                         | -0.1                      | 79      | 20   | 21     | 12   | 49                       | 2.38  | -0.66                     | 0.70                 | 3.0                       | 8                        | 14    | 6                            | 10        | .....      | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 47                      | 50.6                         | +0.2                      | 76      | 19   | 29     | 30   | 38                       | 2.36  | -1.12                     | 0.70                 | 0.3                       | 10                       | 16    | 9                            | 5         | nw.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 55                      | 50.4                         | +1.0                      | 79      | 21   | 28     | 30   | 44                       | 2.97  | -0.60                     | 0.98                 | T                         | 10                       | 11    | 6                            | 13        | w.         | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 51.2                         | +0.9                      | 81      | 13   | 26     | 12   | 50                       | 4.20  | +0.75                     | 1.26                 | 0                         | 14                       | 12    | 7                            | 11        | ne.        | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 49.2                         | -0.8                      | 77      | 19   | 22     | 30   | 50                       | 3.34  | -0.32                     | 1.24                 | T                         | 9                        | 15    | 8                            | 7         | nw.        | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 54.6                         | .....                     | 83      | 19   | 36     | 30   | 36                       | 2.61  | .....                     | 1.30                 | 0                         | 4                        | 13    | 6                            | 11        | se.        | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 48.8                         | +0.2                      | 78      | 19   | 26     | 30   | 46                       | 2.44  | -1.52                     | 0.79                 | T                         | 7                        | 14    | 5                            | 11        | nw.        | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 27                      | 48.9                         | -1.1                      | 76      | 13   | 28     | 12   | 46                       | 3.45  | -0.33                     | 1.33                 | T                         | 7                        | 14    | 2                            | 14        | w.         | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 41.4                         | -2.6                      | 72      | 19   | 19     | 12   | 44                       | 1.00  | -2.54                     | 0.30                 | 7.0                       | 4                        | 11    | 8                            | 13        | w.         | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 41.6                         | -0.9                      | 70      | 19   | 21     | 12   | 38                       | 1.88  | -2.12                     | 0.60                 | 1.0                       | 10                       | 11    | 10                           | 9         | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 45.3                         | -2.3                      | 76      | 20   | 22     | 12   | 45                       | 3.34  | -0.83                     | 1.07                 | 0.2                       | 10                       | 18    | 2                            | 10        | nw.        | H. O. Hacker.               |
| Narberth           | Montgomery   | 300             | 12                      | 49.7                         | -1.0                      | 75      | 19   | 31     | 28   | 34                       | 2.62  | -1.43                     | 1.06                 | 0                         | 9                        | 13    | 8                            | 9         | ne.        | Charles Decker.             |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 49.3                         | -0.8                      | 78      | 21   | 25     | 30   | 40                       | 2.06  | -1.50                     | 0.55                 | 0                         | 8                        | 19    | 0                            | 11        | n.         | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 13                      | 48.0                         | .....                     | 74      | 20   | 26     | 30   | 39                       | 2.82  | -0.37                     | 0.80                 | T                         | 12                       | 11    | 6                            | 13        | nw.        | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 60                      | 53.2                         | +1.1                      | 76      | 19   | 37     | 12   | 26                       | 2.05  | -1.00                     | 0.80                 | 0                         | 8                        | 11    | 8                            | 11        | sw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 52.8                         | .....                     | 78      | 19   | 35     | 12   | 29                       | 2.12  | .....                     | 0.80                 | 0                         | 5                        | 12    | 11                           | 7         | .....      | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 50.8                         | -0.6                      | 73      | 19   | 35     | 12   | 31                       | 2.16  | -1.23                     | 0.99                 | 0                         | 8                        | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 21                      | 53.8                         | +2.0                      | 85      | 15   | 29     | 30   | 49                       | 3.21  | -0.32                     | 1.32                 | 0                         | 7                        | 16    | 10                           | 4         | s.         | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 46                      | 49.1                         | +0.6                      | 74      | 19   | 27     | 30   | 46                       | 2.37  | -0.98                     | 0.89                 | 0                         | 9                        | 14    | 8                            | 8         | nw.        | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 51.2                         | +0.9                      | 76      | 10   | 35     | 12   | 31                       | 1.91  | -1.36                     | 0.83                 | 0                         | 10                       | 11    | 10                           | 9         | se.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 37                      | 47.5                         | -0.6                      | 77      | 20   | 28     | 12   | 40                       | 2.30  | -0.47                     | 0.72                 | T                         | 11                       | 11    | 6                            | 13        | sw.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 41                      | 49.5                         | -0.1                      | 75      | 16   | 26     | 30   | 44                       | 2.81  | -0.79                     | 0.61                 | T                         | 8                        | 14    | 3                            | 13        | w.         | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 35                      | 51.8                         | -0.4                      | 77      | 21   | 30     | 30   | 34                       | 2.20  | -1.10                     | 0.82                 | 0                         | 8                        | 13    | 7                            | 10        | nw.        | W. S. Gules.                |
| State College      | Center       | 1,217           | 47                      | 47.3                         | -0.2                      | 76      | 13   | 27     | 12   | 40                       | 4.36  | +0.96                     | 1.31                 | 4.0                       | 10                       | 13    | 8                            | 9         | w.         | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 17                      | 47.1                         | -1.3                      | 75      | 21   | 25     | 30   | 42                       | 2.46  | -1.60                     | 0.80                 | T                         | 9                        | 14    | 4                            | 12        | w.         | State Normal School.        |
| Towanda            | Bradford     | 754             | 37                      | 46.4                         | 0.0                       | 77      | 20   | 25     | 12   | 46                       | 4.12  | +1.12                     | 1.67                 | 17.2                      | 14                       | 12    | 4                            | 14        | nw.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 61                      | 45.2                         | +0.6                      | 80      | 20   | 20     | 12   | 51                       | 2.87  | -0.61                     | 0.64                 | 4.0                       | 5                        | 13    | 7                            | 10        | w.         | George W. Hill.             |
| West Chester       | Chester      | 455             | 82                      | 50.8                         | +1.0                      | 74      | 19   | 33     | 12   | 31                       | 2.56  | -1.23                     | 0.92                 | 0                         | 8                        | 15    | 8                            | 7         | w.         | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 45                      | 49.6                         | +0.7                      | 80      | 13   | 29     | 51   | 49                       | 3.79  | +0.31                     | 1.18                 | T                         | 12                       | 13    | 2                            | 15        | w.         | Miss Veronica E. April.     |
| York               | York         | 400             | 43                      | 50.4                         | -0.5                      | 80      | 19   | 24     | 30   | 46                       | 2.52  | -0.64                     | 0.89                 | 0                         | 7                        | 16    | 9                            | 5         | n.         | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                          |       |                              |           |            |                             |
| Beaver Dam         | Beaver       | 700             | 39                      | 49.6                         | -0.3                      | 80      | 20   | 26     | 30   | 45                       | 3.94  | +0.86                     | 0.93                 | .....                     | 13                       | 10    | 7                            | 13        | sw.        | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 43.0                         | -2.4                      | 80      | 20   | 20     | 12   | 51                       | 4.64  | +0.88                     | 1.10                 | 3.5                       | 12                       | 17    | 1                            | 12        | nw.        | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 43.8                         | -1.3                      | 80      | 20   | 18     | 13   | 51                       | 3.88  | +0.96                     | 0.98                 | 1.0                       | 8                        | 16    | 4                            | 10        | .....      | John Fawcett.               |
| Butler             | Butler       | 1,152           | 17                      | 47.4                         | .....                     | 82      | 20   | 20     | 30   | 50                       | 3.88  | +0.44                     | 0.86                 | 2.0                       | 9                        | 15    | 7                            | 8         | w.         | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 1                       | 47.1                         | -2.6                      | 81      | 19   | 18     | 12   | 50                       | 4.40  | +0.44                     | 1.49                 | 4.0                       | 15                       | 10    | 2                            | 18        | nw.        | John E. Lewis.              |
|                    |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                          |       |                              |           |            |                             |



## Daily Precipitation for April, 1931

| Stations           | Drainage Basin | Day of month |      |     |     |    |      |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      |      |      |     |      |     |     |     |     |      | Total |      |
|--------------------|----------------|--------------|------|-----|-----|----|------|-----|-----|----|-----|-----|----|----|----|----|----|-----|-----|----|----|----|------|------|------|-----|------|-----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2    | 3   | 4   | 5  | 6    | 7   | 8   | 9  | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17  | 18  | 19 | 20 | 21 | 22   | 23   | 24   | 25  | 26   | 27  | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |      |     |     |    |      |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      |      |      |     |      |     |     |     |     |      |       |      |
| Allentown          | Lehigh         | .09          | .59  | .01 | .02 |    |      | .19 | .09 |    |     | .05 |    |    |    |    |    |     | T.  |    |    |    |      | .39  |      |     | .12  | .21 |     | .01 | .02 | 1.79 |       |      |
| Altoona            | Juniata        | .93          | .03  | .40 | .45 |    | .04  | T.  |     | T. |     |     |    |    |    |    |    | .05 |     |    |    |    | 1.35 | .45  |      | .44 |      |     | .03 |     |     | 4.17 |       |      |
| Ansonia            | W. Br. Susq.   | .02          | .70  |     | .27 |    |      | .22 | T.  |    |     | .21 |    |    |    |    |    |     | .02 |    |    |    |      | .61  |      |     | .20  | .26 | T.  | .30 |     | 2.81 |       |      |
| Arendtsville       | Lower Susq.    | 1.30         |      | .06 |     |    |      | .18 | .46 |    |     |     |    |    |    |    |    |     | .01 |    |    |    |      | .50  |      |     | .09  | .25 |     |     |     | 2.85 |       |      |
| Baker's Summit     | Juniata        | 1.14         |      | .30 | .55 |    | .10  | .09 |     |    |     |     |    |    |    |    |    |     |     |    |    |    | .76  | .60  |      |     |      |     |     |     |     | 4.03 |       |      |
| Bellefonte         | W. Br. Susq.   | 1.19         | .01  | .51 | .02 |    | .17  | .31 |     |    | .03 | T.  |    |    |    |    |    | T.  |     |    |    |    | 1.25 | .03  | T.   | .29 | T.   | T.  | .04 |     |     | 3.85 |       |      |
| Bethlehem          | Lehigh         | .31          | .16  |     | .02 |    | T.   | .26 | .04 |    |     | .06 |    |    |    |    |    | T.  |     |    |    |    |      | .54  |      |     |      |     |     | .03 |     |      | 1.92  |      |
| Blossersville      | Lower Susq.    | 1.70         | .20  |     |     |    | T.   | .95 | .05 |    |     |     |    |    |    |    |    |     |     |    |    |    | .73  |      | T.   | .55 |      | T.  |     |     |     | 4.18 |       |      |
| Carlisle           | Lower Susq.    | 1.52         |      | T.  | .12 |    | T.   | .44 |     |    |     | T.  |    |    |    |    |    | T.  |     |    |    |    | .35  | .23  |      | .01 | .40  |     | T.  |     |     | 3.07 |       |      |
| Catawissa          | N. Br. Susq.   | .55          | .03  | .35 |     |    | .09  | .50 |     |    |     |     |    |    |    |    |    | T.  |     |    |    |    |      | .20  | .60  |     | .06  | .30 |     | .04 |     |      | 2.72  |      |
| Center Hall        | Susquehanna    | 1.10         | .24  | .25 |     |    | .38  | .32 |     |    |     |     |    |    |    |    |    | .01 |     |    |    |    |      | .54  | .58  |     | .42  | T.  |     |     |     |      | 3.84  |      |
| Chambersburg       | Potomac        | 1.24         | .01  |     | .10 |    | .04  | .11 | .02 |    |     |     |    |    |    |    |    |     | .02 |    |    |    |      | .98  | .13  |     |      | .41 |     |     |     |      | 3.06  |      |
| Clearfield         | W. Br. Susq.   | 1.22         | .07  | .65 | T.  |    | .25  | .10 |     |    |     |     |    |    |    |    |    | .02 |     |    |    |    |      | .60  | .77  |     | .03  | .68 | .02 |     | .12 |      | 4.53  |      |
| Coatesville        | Lower Del.     | 1.08         | .04  |     |     |    | .04  | .40 |     |    |     | .10 |    |    |    |    |    | T.  |     |    |    |    |      | .32  | .22  |     | .06  | .47 |     |     |     |      | 2.73  |      |
| Colebrook          | Lower Susq.    | .89          | .02  | .07 | .01 |    | .03  | .54 |     |    |     |     |    |    |    |    |    | T.  |     |    |    |    |      | .40  | .24  |     | .12  | .34 |     |     | .01 |      | 2.67  |      |
| Conshohocken       | Schuylkill     | .98          | .02  |     |     |    | .29  | .02 |     |    |     | .09 |    |    |    |    |    | T.  |     |    |    |    |      |      | .42  |     | T.   | .46 |     |     |     |      | 2.28  |      |
| Cresskill          | Juniata        | .75          |      | .90 |     |    | .28  | .10 |     |    | .10 |     |    |    |    |    |    |     | T.  |    |    |    | 1.10 | .43  |      | .03 | .45  |     |     |     |     |      | 4.14  |      |
| Doylestown         | Lower Del.     | .57          |      |     |     |    | T.   | .18 |     |    |     |     |    |    |    |    |    | T.  |     |    |    |    |      | .10  |      | .02 | .37  |     |     | .01 |     |      | 1.25  |      |
| Driftwood          | W. Br. Susq.   | 1.30         |      | .73 | .38 |    | .60  |     |     |    | T.  |     |    |    |    |    |    | T.  |     |    |    |    |      | .63  | .58  |     | .70  |     | .20 |     |     |      | 5.12  |      |
| Emporium           | do             | .95          | .10  | .31 | .11 |    | .24  | T.  |     |    | .12 |     |    |    |    |    |    | .16 |     |    |    |    |      | .60  | .31  | T.  | 1.04 | T.  | .12 | .26 |     |      | 4.32  |      |
| Ephrata            | Lower Susq.    | .52          | .10  |     | .02 |    | .46  |     |     |    | T.  |     |    |    |    |    |    |     |     |    |    |    | T.   | .67  |      | .03 | .23  |     |     |     |     |      | 2.03  |      |
| Forest City        | N. Br. Susq.   | T.           | .56  | .06 | .33 |    | .07  | .17 |     |    | .09 |     |    |    |    |    |    |     | .14 |    |    |    |      | .83  |      |     | .11  | .42 | .02 | .39 | .02 |      | 3.21  |      |
| Freeland           | Lehigh         | .01          | 1.12 | .02 | .31 | T. |      | .33 | .20 |    | .21 |     |    |    |    |    |    |     | .03 |    |    |    |      | 1.10 | .02  |     | .15  | .28 | T.  | .14 |     |      | 3.92  |      |
| Galeton            | W. Br. Susq.   | .87          |      | .33 |     |    | .28  | .15 |     |    | .25 |     |    |    |    |    |    | .05 |     |    |    |    |      | .70  | .15  |     |      | .77 |     |     | .27 |      | 3.67  |      |
| George School      | Lower Del.     | .95          | .01  |     | T.  |    | .01  | .25 | .38 |    | .07 |     |    |    |    |    |    |     |     |    |    |    |      | .31  |      | .02 | .55  |     |     |     |     |      | 2.55  |      |
| Gettysburg         | Potomac        | 1.38         | .03  | T.  | .02 |    | .04  | .60 | .01 | T. |     | .02 |    |    |    |    |    |     | .01 |    |    |    |      | .28  | .13  |     | .01  | .27 |     |     |     |      | 2.80  |      |
| Girardville        | Lower Susq.    | .46          | .03  | .14 |     |    | .27  |     |     |    | .03 |     |    |    |    |    |    |     | .01 |    |    |    |      | .64  |      |     | .44  |     |     | .02 |     |      | 2.04  |      |
| Gordon             | Lower Susq.    | .50          | .06  | .02 | .12 |    | .34  |     |     |    |     |     |    |    |    |    |    | .02 |     |    |    |    |      | .10  | 1.00 |     | .07  | .42 |     |     |     |      | 2.65  |      |
| Gouldsboro         | Lehigh         | .25          | 1.25 |     | .26 |    | .15  | .35 |     |    | .15 |     |    |    |    |    |    | .15 |     |    |    |    |      | .84  |      |     | .05  | .38 | .01 | .04 |     |      | 3.88  |      |
| Graterford         | Schuylkill     | .98          | .19  |     |     | T. | .28  | .03 |     |    | .06 |     |    |    |    |    |    |     |     |    |    |    |      | .48  |      | .01 | .56  |     |     | T.  |     |      | 2.59  |      |
| Hamburg            | Schuylkill     | .87          | .12  |     |     |    | .46  |     |     |    | .06 |     |    |    |    |    |    | T.  |     |    |    |    |      | .65  |      | .70 |      |     |     | .08 |     |      | 2.94  |      |
| Hanover            | Lower Susq.    | 1.23         | .03  | T.  | .02 |    | .04  | .73 | .01 |    | .04 |     |    |    |    |    |    | T.  |     |    |    |    |      | .25  | .21  |     | .01  | .25 | T.  |     |     |      | 2.82  |      |
| Harrisburg         | Lower Susq.    | .88          | T.   | .08 | T.  |    | .07  | .17 |     | T. | T.  |     |    |    |    |    |    | T.  |     |    |    |    |      | .38  | .03  |     | .13  | .27 |     |     | T.  |      | 2.01  |      |
| Hawley             | Upper Del.     | T.           | .40  | T.  | .25 |    | .31  | .39 |     |    | .05 |     |    |    |    |    |    |     | .07 |    |    |    |      | .89  | .12  |     | .04  | .12 | .01 | .14 | .03 |      | 2.82  |      |
| Hollisterville     | Upper Del.     | .03          | .68  | .02 | .31 |    | .41  | .28 | .01 |    | .08 |     |    |    |    |    |    |     | .17 |    |    |    |      | .70  |      |     | .01  | .17 | T.  | .21 | .01 |      | 3.09  |      |
| Holtwood           | Lower Susq.    | .24          | .64  |     | .02 |    | .03  | .33 | .26 |    |     |     |    |    |    |    |    |     | T.  |    |    |    |      | .37  |      |     | .01  | .20 |     |     |     |      | 2.10  |      |
| Huntingdon         | Juniata        | 1.28         | .02  | .26 | .57 |    | .02  | .07 |     |    |     |     |    |    |    |    |    | T.  |     |    |    |    |      | .97  | .70  |     | .55  |     |     |     |     |      | 4.44  |      |
| Hydman             | Potomac        | 1.05         |      | .06 | .32 |    | .26  | .13 |     | T. |     |     |    |    |    |    |    | .05 |     |    |    |    |      | .98  | .18  |     | .10  | .32 |     |     |     |      | 3.45  |      |
| Kylertown          | W. Br. Susq.   | 1.05         | .10  | .21 | .59 |    | T.   | .42 |     |    | T.  |     |    |    |    |    |    |     | T.  |    |    |    |      | .54  | .47  |     | .42  | T.  |     |     |     |      | 3.80  |      |
| Lakeville          | Upper Del.     | T.           | .46  | .03 | .25 |    | .40  | .33 |     |    | .06 |     |    |    |    |    |    |     | .12 |    |    |    |      |      | 1.11 | .03 |      | .10 | .11 | .03 | .25 | T.   | 3.28  |      |
| Lancaster          | Lower Susq.    | .60          | .06  |     |     |    | .02  | .52 |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      | .51  |      |     | .18  |     |     |     |     |      | 1.89  |      |
| Lansford           | Lehigh         | T.           | .78  |     | .12 |    | .16  | .08 |     |    | .04 |     |    |    |    |    |    |     | .02 |    |    |    |      |      | .90  |     |      | *   | .66 |     | .04 | T.   | 2.80  |      |
| Lawrenceville      | N. Br. Susq.   | .30          | .46  | .10 | .10 |    | .20  |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      | .70  |      |     | .17  | T.  |     | .35 |     |      | 2.38  |      |
| Lebanon            | Lower Susq.    | .70          | .05  |     | .05 |    | T.   | .43 | .02 |    | .06 |     |    |    |    |    |    |     | T.  |    |    |    |      | .03  | .62  |     | .13  | .27 |     |     | T.  |      | 2.36  |      |
| Lewisburg          | W. Br. Susq.   | .98          | .07  | .13 | .24 |    | T.   | .64 | T.  |    |     |     |    |    |    |    |    |     | .01 |    |    |    |      | T.   | .42  |     | .03  | .44 |     |     | .01 |      |       | 2.97 |
| Lloyd              | do             |              |      |     |     |    |      | .42 | .15 |    |     | .03 |    |    |    |    |    |     | .03 |    |    |    |      | .03  | 1.26 |     | .01  | .37 | .03 |     | .04 |      | 4.20  |      |
| Lock Haven         | do             | .85          | .43  | .11 | .44 |    | .75  | .10 |     |    | .01 |     |    |    |    |    |    |     | T.  |    |    |    |      | T.   | 1.24 |     | .06  | .38 |     |     | T.  |      | 3.34  |      |
| Lykens             | Susquehanna    | .65          | .05  | T.  | .10 |    | .42  |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      | .40  |      |     | .62  |     |     |     |     |      | 2.61  |      |
| Marcus Hook        | Lower Del.     | 1.30         |      |     |     |    | .29  |     |     |    | T.  |     |    |    |    |    |    |     |     |    |    |    |      | .33  |      | .06 | .74  |     |     | .03 |     |      | 2.44  |      |
| Mauch Chunk        | Lehigh         | .79          |      | .21 |     |    | .28  |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      | .33  |      | .06 | .74  |     |     |     |     |      | 3.45  |      |
| Midtown            | Juniata        | 1.33         | .08  | .10 |     |    | .38  |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      | .57  | .50  |     | .49  |     |     |     |     |      | 1.00  |      |
| Montrose           | N. Br. Susq.   |              |      |     | .10 |    | .30  |     |     |    | .25 |     |    |    |    |    |    |     |     |    |    |    |      | .30  |      |     |      |     | .20 | .20 |     |      | 4.32  |      |
| Morris Run         | N. Br. Susq.   | .65          | .37  | .27 | .10 |    | 1.00 | .02 | .04 |    | .25 |     |    |    |    |    |    |     | .18 |    |    |    |      | .86  |      |     |      |     | .02 | .34 |     |      | 1.88  |      |
| Mount Pocono       | Upper Del.     | .60          | .30  | T.  |     |    | .30  | .06 |     |    | .10 |     |    |    |    |    |    |     |     |    |    |    |      | .30  | .03  | T.  |      | .16 | .01 | .02 |     |      |       |      |
| Muncy><            |                |              |      |     |     |    |      |     |     |    |     |     |    |    |    |    |    |     |     |    |    |    |      |      |      |     |      |     |     |     |     |      |       |      |



## Daily Precipitation for April, 1931—Continued from page 18

| Stations          | Drainage Basin | Day of month |      |      |      |    |     |     |     |     |     |     |     |    |    |    |    |     |     |     |    |      |      |      |     |     |      |     |     |     |     |      | Total |
|-------------------|----------------|--------------|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|----|------|------|------|-----|-----|------|-----|-----|-----|-----|------|-------|
|                   |                | 1            | 2    | 3    | 4    | 5  | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15 | 16 | 17  | 18  | 19  | 20 | 21   | 22   | 23   | 24  | 25  | 26   | 27  | 28  | 29  | 30  | 31   |       |
| Ohio Drainage.    |                |              |      |      |      |    |     |     |     |     |     |     |     |    |    |    |    |     |     |     |    |      |      |      |     |     |      |     |     |     |     |      |       |
| Beaver Dam\|\|\| | Ohio           | .16          | .61  | .16  | .85  |    |     |     |     |     |     | .63 |     |    |    |    |    |     | .03 |     |    |      | .02  | .91  |     | .01 | .23  | .31 | .01 | .01 |     | 3.94 |       |
| Beaver Falls\|\|\| | Beaver         | .19          | .75  | .08  | .57  |    |     |     |     |     |     | .50 |     |    |    |    |    |     | .07 |     |    |      | .04  | .81  |     | T.  | .18  | .27 | T.  | .01 |     | 3.47 |       |
| Bradford          | Allegheny      | 1.10         | .38  | .32  | .22  |    |     |     |     |     | .35 |     |     |    |    |    |    |     |     |     |    | .65  | .15  |      | .02 | .85 | .25  | .02 | .33 |     |     | 4.64 |       |
| Brookville        | do             |              | .85  | .15  | .74  |    |     | .20 |     |     |     | .20 |     |    |    |    |    |     | T.  |     |    |      | .98  |      |     | .28 | .48  |     |     |     |     | 3.88 |       |
| Butler            | Ohio           |              | .86  |      | .75  |    |     |     |     |     |     | .74 |     |    |    |    |    |     | .06 |     |    |      | T.   | .70  |     |     | .66  | .10 | .02 |     |     | 3.88 |       |
| Chambersville     | Allegheny      | .48          | .13  | .89  | .60  |    | .01 | .35 |     |     |     | .04 | .17 |    |    |    |    |     | .03 |     |    |      | .73  | .33  |     | .02 | .57  | .01 |     | .04 |     | 4.40 |       |
| Clairton†         | Monongahela    | .60          |      | 1.70 | .01  |    | .13 |     |     |     |     | .17 |     |    |    |    |    |     | .02 |     |    |      | .57  | .31  | T.  | T.  | .25  | .01 |     | T.  |     | 3.77 |       |
| Claysville        | Ohio           | .63          | .09  | 1.00 | .48  |    | .02 | .02 |     |     |     | .40 | .19 |    |    |    |    |     | .01 |     |    |      | .63  | .05  |     | .02 | .39  | .02 | T.  |     |     | 3.95 |       |
| Clymer††          | Conemaugh      | .64          | .18  | 1.36 |      |    |     | .45 |     |     |     | .20 |     |    |    |    |    |     |     |     |    | 1.20 |      |      |     | .25 | .30  | .07 |     |     |     | 4.65 |       |
| Confluence\|\| | Youghiogheny   | .32          | .25  |      | 1.22 |    | .05 | .33 | .12 |     |     | .13 |     |    |    |    |    |     | .12 |     |    |      |      | .85  | .05 |     | .32  | .33 |     |     |     | 4.09 |       |
| Corry             | Allegheny      | .72          | .21  | .24  | .01  |    |     |     |     |     |     | .04 | .01 |    |    |    |    |     |     |     |    | .93  | .04  |      | .22 | .60 | .18  |     | .25 |     |     | 3.45 |       |
| Coudersport       | Allegheny      | .73          | .08  | .38  |      |    | .40 |     |     |     |     | .14 |     |    |    |    |    |     | .02 |     |    |      | .87  |      |     | .37 | .75  | .06 | .40 |     |     | 4.19 |       |
| Derry             | Conemaugh      |              |      |      |      |    |     |     |     |     |     |     |     |    |    |    |    |     |     |     |    |      |      |      |     |     |      |     |     |     |     |      |       |
| Donora\|\|\| | Monongahela    | .73          | .10  | .31  | 1.16 |    |     | .23 |     |     |     | .15 |     |    |    |    |    |     | T.  |     |    |      | .05  | .70  |     | T.  |      | .40 | T.  |     |     | 3.83 |       |
| Ebensburg         | Conemaugh      | .39          | .09  | .45  | .12  |    | .07 | .25 |     |     |     | T.  |     |    |    |    |    |     |     |     |    | .40  | .50  |      |     | .56 | .05  |     |     |     |     | 2.88 |       |
| Elk Lick          | Youghiogheny   |              | .95  |      | .60  |    |     | .10 |     |     |     | .35 |     |    |    |    |    | .10 |     |     |    |      | .65  | .60  |     |     | .38  |     |     |     |     | 4.33 |       |
| Falls Creek       | Allegheny      | .75          | .21  | .63  |      |    |     | .22 |     |     |     | .09 |     |    |    |    |    |     |     |     |    | 1.07 |      |      | .04 | .67 | T.   |     | .09 |     |     | 3.77 |       |
| Franklin\|\|\| | Allegheny      | .14          | .90  | .09  | .44  |    |     |     |     |     |     | .60 |     |    |    |    |    |     | .03 | .12 |    | .07  | .88  |      |     | .58 | .53  |     | .13 |     |     | 4.51 |       |
| Freeport\|\|\| | do             | .17          | .64  | .12  | 1.21 |    |     | .03 |     |     |     | .20 |     |    |    |    |    |     | .08 |     |    | .02  | .80  | T.   | .01 | .37 | .20  |     | .01 |     |     | 3.86 |       |
| Greensboro        | Monongahela    | .45          | .46  | T.   | 1.68 |    | T.  | .38 |     |     |     | .40 |     |    |    |    |    |     | .09 |     |    |      | .78  |      |     | .26 | .52  |     |     |     |     | 5.02 |       |
| Greensburg        | Youghiogheny   | .64          | .11  | 1.00 | .63  |    | .05 | .23 |     |     |     | .03 | .18 |    |    |    |    |     | .28 |     |    |      | .73  | .35  |     | .02 | .48  | T.  | T.  | .01 |     | 4.74 |       |
| Greenville        | Beaver         | .71          | .15  | .20  | .12  |    |     | .23 |     |     |     | .23 |     |    |    |    |    |     | .09 |     |    |      | .78  | .15  |     | T.  | .82  | T.  |     | .02 |     | 3.27 |       |
| Grove City        | do             | .75          | T.   | .24  | .14  |    |     | .48 | .05 |     |     | .05 |     |    |    |    |    |     | .13 |     |    |      | .32  | .99  |     |     | .81  | .12 | .05 | .16 |     | 3.99 |       |
| Herr's Isl. Dam\|\|\| | Ohio           | .19          | .45  | .29  | 1.10 |    |     | .01 |     |     |     | .39 |     |    |    |    |    |     | .03 |     |    |      |      | .75  |     | .01 | .17  | .12 | T.  | .01 |     | 3.52 |       |
| Ingram            | Ohio           | .78          | .06  | 1.14 | .33  |    | .01 | .01 |     |     |     | .31 | .19 |    |    |    |    |     | .03 |     |    |      | T.   | .75  | .04 |     | .01  | .34 | T.  | T.  | T.  | 4.00 |       |
| Irwin             | Youghiogheny   | .51          | .09  | .97  | .76  |    | .12 | .18 |     |     |     | .05 |     |    |    |    |    |     | .01 |     |    |      | .45  | .24  |     |     | .32  | T.  |     |     |     | 3.70 |       |
| Johnstown         | Conemaugh      | .90          | .02  | 1.30 | .38  |    | .18 | .11 |     |     |     | .02 | .04 |    |    |    |    |     | .02 |     |    | 1.05 | .15  |      | .02 | .60 | .02  |     | .08 |     |     | 4.89 |       |
| Kregar\|\|\| | Youghiogheny   | .58          | .05  | 1.51 |      |    | .59 | .12 | T.  |     |     | .23 |     |    |    |    |    |     | T.  |     |    |      | 1.30 |      |     | .22 | .43  | T.  | .03 | T.  |     | 5.06 |       |
| Lake Lynn\|\|\| | Monongahela    | .22          | .65  | .03  | 1.31 |    | .31 | .32 |     | .01 |     | .28 |     |    |    |    |    |     | .09 |     |    |      | .80  |      | .01 | .13 | .30  |     |     |     |     | 4.46 |       |
| Linesville\|\|\| | Beaver         | .78          | T.   | .35  |      |    |     |     |     |     |     | .28 |     |    |    |    |    |     | .13 |     |    |      | .32  | .99  |     |     | .81  | .12 | .05 | .16 |     | 3.99 |       |
| Lock No. 2\|\|\| | Ohio           | .18          | .62  | .24  | 1.20 |    | T.  |     |     |     |     | .54 |     |    |    |    |    |     | T.  | .05 |    |      | T.   | T.   | .71 |     | T.   | .23 | .19 | T.  | T.  | 3.96 |       |
| Lock No. 4\|\|\| | Monongahela    | .34          | .40  | .09  | 1.55 |    |     | .20 |     | T.  |     | .18 |     |    |    |    |    |     | T.  |     |    |      |      | .89  | T.  | T.  | .27  | .18 | T.  |     |     | 4.10 |       |
| Lycippus          | Conemaugh      | 1.14         |      | .97  | 1.00 |    | .07 | .41 |     |     |     | .40 |     |    |    |    |    |     | T.  |     |    |      | .97  |      |     | .97 |      |     |     |     |     | 5.93 |       |
| McKeesport\|\|\| | Monongahela    | .21          | .47  | .17  | 1.31 |    |     | .04 |     |     |     | .16 |     |    |    |    |    |     | T.  |     |    |      | .62  |      | T.  | .15 | .01  |     | T.  |     |     | 3.14 |       |
| Meadville         | Allegheny      | .96          | .25  | .22  | .06  |    |     |     |     |     |     | .15 | .12 |    |    |    |    |     | .15 |     |    |      | .68  | .31  |     | .39 | .11  |     |     |     |     | 3.90 |       |
| Mount Lebanon     | Ohio           | .71          | .04  | 1.05 | .46  |    | T.  | T.  |     |     |     | .24 | .08 |    |    |    |    |     | .03 |     |    | .07  | .73  | .07  |     | .02 | .33  | .01 |     |     |     | 3.84 |       |
| Natrona\|\|\| | Allegheny      | .16          | .58  | .19  | 1.20 |    |     | .04 |     |     |     | .26 |     |    |    |    |    |     | .04 |     |    |      | .01  | .71  |     | .01 | .35  | .15 |     | .01 |     | 3.71 |       |
| New Castle\|\|\| | Beaver         | .14          | .83  | .07  | .27  |    |     | .42 |     |     |     | .42 |     |    |    |    |    |     | .07 | .05 |    |      | .06  | .74  | .01 | .01 | .48  | .16 | .01 | .02 | .01 | 3.35 |       |
| Newell            | Monongahela    | .06          |      | .21  | 1.40 |    | .12 |     |     |     |     | .20 |     |    |    |    |    |     |     |     |    |      | .31  | .48  |     |     | .38  |     |     |     |     | 3.16 |       |
| Parkers Landing\|\| | Allegheny      | .21          | .88  | T.   | .57  |    |     |     |     |     |     | .80 |     |    |    |    |    |     | T.  |     |    |      |      | .88  |     | T.  | .46  | .55 | T.  | .07 | T.  | 4.42 |       |
| Pennline\|\|\|†† | Beaver         | .02          | .78  | T.   | .35  |    |     |     |     |     |     | .22 |     |    |    |    |    |     | .03 |     |    |      | .35  | 1.03 |     | .60 | .16  | .04 | .14 |     |     | 3.72 |       |
| Pittsburgh***     | Ohio           | .66          | .05  | 1.34 | T.   |    | T.  | T.  |     | T.  |     | .39 |     |    |    |    |    |     | .06 |     |    |      | T.   | .85  | .01 | T.  | .01  | .24 | T.  |     |     | 3.61 |       |
| Punxsutawney\|\|\| | Allegheny      | T.           | .46  | .38  | .42  |    | T.  |     |     |     |     |     |     |    |    |    |    |     |     |     |    | .80  |      |      |     | .30 |      |     |     |     |     | 2.36 |       |
| Ridgway           | do             | .11          | 1.17 | .06  | .51  | T. |     | .20 | T.  |     |     | .17 |     |    |    |    |    |     | .10 |     |    |      | .26  |      |     | .25 | .47  | .31 | .20 | T.  |     | 3.81 |       |
| Saltsburg\|\|\| | Conemaugh      | .16          | .27  | .19  | .98  |    |     | .28 |     |     |     | .12 |     |    |    |    |    |     |     |     |    |      | .89  |      | T.  | .24 | .07  |     | .03 |     |     | 3.23 |       |
| Sharon\|\|\| | Beaver         | .06          | .79  | .03  | .24  |    |     | .32 |     |     |     | .32 |     |    |    |    |    |     | .06 |     |    |      | .26  | .75  |     | T.  | .80  | .05 | T.  |     |     | 3.38 |       |
| Somerset          | Youghiogheny   | .78          | .02  | .46  | .72  |    | .26 | .21 |     |     |     | .06 |     |    |    |    |    |     | .03 |     |    |      | .80  | .26  |     | T.  | .58  | T.  |     |     |     | 4.18 |       |
| Springdale\|\|\| | Allegheny      | .22          | .54  | .23  | 1.20 |    |     | .07 |     |     |     | .26 |     |    |    |    |    |     |     | .04 |    |      |      | .81  |     | .01 | .25  | .25 | T.  | .01 |     | 3.89 |       |
| Uniontown         | Monongahela    | .77          | .13  | .81  | .99  |    | .16 | .17 |     |     |     | T.  | .39 |    |    |    |    |     | .09 |     |    |      | T.   | .84  | .08 |     | .01  | .64 | .03 |     |     | 5.11 |       |
| Unity Reservoir†† | Youghiogheny   | .52          | .13  | .87  | .76  |    | .08 | .28 |     |     |     | T.  | .25 |    |    |    |    |     | T.  |     |    |      | .50  | .29  |     |     | .55  | T.  |     |     |     | 4.23 |       |
| Vandergrift††     | Conemaugh      | .71          | .03  | 1.29 |      |    | .02 | .01 |     |     |     |     |     |    |    |    |    |     |     |     |    |      | .86  |      |     |     | .02  |     |     |     |     | 2.94 |       |
| Warren            | Allegheny      | .50          | .43  | .54  |      |    |     |     |     |     |     | .80 | .10 |    |    |    |    |     | .03 |     |    |      | .65  | .15  |     | .08 | 1.00 | .29 |     | .10 |     | 4.67 |       |
| Westford\|\|\| | Beaver         |              | .30  | .40  |      |    |     |     |     |     |     | .30 |     |    |    |    |    |     | .02 |     |    |      | .60  | 1.08 | .65 | T.  |      |     |     |     |     | 3.73 |       |
| West Newton\|\|\| | Youghiogheny   | .22          | .35  | .10  | 1.50 |    |     | .18 |     |     |     | .18 |     |    |    |    |    |     |     | .02 |    |      |      | .84  |     |     | .20  | .21 |     |     |     | 3.80 |       |
| Zellenople        | Ohio           |              |      |      |      |    |     |     |     |     |     |     |     |    |    |    |    |     |     |     |    |      |      |      |     |     |      |     |     |     |     |      |       |
| Lake Drainage.    |                |              |      |      |      |    |     |     |     |     |     |     |     |    |    |    |    |     |     |     |    |      |      |      |     |     |      |     |     |     |     |      |       |
| Erie***           | Lake Erie      | .89          | T.   | .21  | .01  |    |     |     |     |     |     | .16 |     |    |    |    |    |     |     |     |    |      | .05  | .93  | .02 | T.  | .18  | .55 | T.  | .13 | .18 |      | 3.31  |
| Genesee           | do             | .05          | .50  | .18  | .50  |    |     | .20 | .05 |     |     | .10 | .50 |    |    |    |    |     |     |     |    |      | .10  | .59  |     |     | .37  | .11 | .05 | .40 |     | 3.70 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

\* Precipitation included in the next following measurement

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville Newville; of Clymer, Indiana; of Driftwood, Sinnemahoning; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah † Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

| Stations | Sunshine |  |  | Humidity |  |  | † Wind |  |  |  |  |
|----------|----------|--|--|----------|--|--|--------|--|--|--|--|
|----------|----------|--|--|----------|--|--|--------|--|--|--|--|



Daily Temperatures for April, 1931

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| Allentown.....     | Maximum | 44 | 46 | 60 | 54 | 49 | 50 | 42 | 60 | 65 | 71 | 66 | 56 | 70 | 68 | 66 | 68 | 71 | 68 | 73 | 72 | 75 | 73 | 46 | 53 | 49 | 65 | 49 | 53 | 54 | 55   | 59.7 |
|                    | Minimum | 36 | 37 | 34 | 42 | 33 | 39 | 36 | 36 | 42 | 42 | 48 | 32 | 35 | 44 | 33 | 37 | 38 | 47 | 36 | 41 | 44 | 50 | 39 | 35 | 38 | 42 | 39 | 33 | 38 | 29   | 38.5 |
| Altoona.....       | Maximum | 47 | 45 | 43 | 45 | 49 | 47 | 39 | 61 | 73 | 73 | 60 | 61 | 77 | 75 | 66 | 73 | 69 | 73 | 75 | 75 | 75 | 74 | 35 | 49 | 55 | 54 | 41 | 54 | 51 | 56   | 59.0 |
|                    | Minimum | 32 | 33 | 32 | 39 | 30 | 36 | 31 | 32 | 42 | 45 | 37 | 23 | 33 | 48 | 36 | 31 | 43 | 36 | 37 | 43 | 44 | 53 | 33 | 27 | 37 | 45 | 31 | 32 | 35 | 25   | 36.0 |
| Beaver Dam.....    | Maximum | 41 | 50 | 45 | 48 | 51 | 51 | 50 | 64 | 77 | 70 | 58 | 67 | 77 | 73 | 71 | 76 | 67 | 68 | 79 | 80 | 78 | 77 | 70 | 52 | 57 | 56 | 47 | 58 | 53 | 57   | 62.3 |
|                    | Minimum | 33 | 34 | 31 | 38 | 28 | 35 | 36 | 27 | 39 | 58 | 42 | 27 | 32 | 41 | 42 | 34 | 46 | 36 | 37 | 46 | 51 | 35 | 34 | 30 | 41 | 39 | 33 | 33 | 39 | 26   | 36.8 |
| Bellefonte.....    | Maximum | 40 | 46 | 45 | 46 | 50 | 46 | 39 | 61 | 72 | 69 | 59 | 62 | 76 | 66 | 65 | 72 | 68 | 71 | 74 | 75 | 75 | 66 | 37 | 51 | 50 | 56 | 41 | 52 | 52 | 55   | 57.9 |
|                    | Minimum | 32 | 35 | 32 | 30 | 27 | 32 | 31 | 30 | 34 | 47 | 35 | 24 | 29 | 40 | 27 | 29 | 39 | 38 | 34 | 48 | 47 | 32 | 31 | 27 | 34 | 36 | 33 | 32 | 33 | 26   | 33.5 |
| Brookville.....    | Maximum | 42 | 38 | 48 | 51 | 47 | 51 | 47 | 44 | 65 | 76 | 75 | 55 | 63 | 76 | 73 | 70 | 76 | 65 | 80 | 80 | 79 | 66 | 35 | 50 | 53 | 50 | 53 | 52 | 53 | 45   | 59.5 |
|                    | Minimum | 30 | 33 | 25 | 25 | 22 | 28 | 25 | 22 | 30 | 38 | 27 | 18 | 25 | 32 | 26 | 25 | 31 | 28 | 29 | 40 | 38 | 33 | 24 | 20 | 32 | 31 | 31 | 31 | 23 | 28.1 |      |
| Butler.....        | Maximum | 41 | 44 | 53 | 50 | 52 | 50 | 50 | 67 | 78 | 59 | 60 | 65 | 78 | 77 | 70 | 79 | 68 | 75 | 81 | 82 | 81 | 79 | 39 | 50 | 57 | 54 | 39 | 56 | 52 | 57   | 61.4 |
|                    | Minimum | 34 | 31 | 30 | 36 | 26 | 32 | 33 | 26 | 33 | 44 | 40 | 22 | 34 | 36 | 36 | 29 | 44 | 30 | 33 | 40 | 48 | 39 | 31 | 26 | 36 | 35 | 29 | 32 | 36 | 20   | 33.4 |
| Carlisle.....      | Maximum | 45 | 49 | 56 | 55 | 54 | 54 | 46 | 67 | 76 | 74 | 74 | 63 | 75 | 74 | 72 | 74 | 73 | 78 | 79 | 77 | 74 | 48 | 59 | 59 | 63 | 55 | 61 | 58 | 62 | 64.4 |      |
|                    | Minimum | 34 | 39 | 32 | 44 | 32 | 40 | 34 | 36 | 33 | 41 | 47 | 27 | 38 | 44 | 33 | 28 | 45 | 43 | 35 | 39 | 45 | 48 | 39 | 32 | 41 | 47 | 37 | 38 | 43 | 28   | 38.1 |
| Catawissa.....     | Maximum | 47 | 46 | 52 | 51 | 55 | 51 | 49 | 63 | 74 | 75 | 65 | 61 | 76 | 73 | 71 | 75 | 70 | 75 | 78 | 79 | 79 | 75 | 65 | 55 | 50 | 65 | 60 | 54 | 57 | 60   | 63.5 |
|                    | Minimum | 35 | 34 | 32 | 30 | 33 | 37 | 33 | 32 | 38 | 44 | 38 | 29 | 31 | 43 | 30 | 30 | 40 | 42 | 34 | 44 | 53 | 50 | 35 | 32 | 33 | 34 | 35 | 36 | 40 | 27   | 36.1 |
| Chambersburg.....  | Maximum | 45 | 50 | 57 | 59 | 54 | 51 | 41 | 69 | 77 | 75 | 71 | 64 | 67 | 75 | 72 | 75 | 77 | 77 | 77 | 77 | 77 | 70 | 45 | 58 | 57 | 61 | 48 | 60 | 58 | 65   | 63.6 |
|                    | Minimum | 32 | 38 | 36 | 45 | 33 | 39 | 36 | 33 | 37 | 42 | 47 | 32 | 32 | 42 | 37 | 35 | 42 | 47 | 41 | 42 | 45 | 40 | 38 | 32 | 42 | 46 | 37 | 37 | 43 | 29   | 38.6 |
| Chambersville..... | Maximum | 46 | 48 | 49 | 54 | 52 | 50 | 44 | 64 | 79 | 77 | 68 | 64 | 77 | 74 | 70 | 76 | 70 | 70 | 81 | 81 | 80 | 72 | 37 | 49 | 56 | 56 | 40 | 55 | 55 | 57   | 61.7 |
|                    | Minimum | 32 | 38 | 32 | 27 | 22 | 34 | 32 | 24 | 31 | 48 | 42 | 18 | 27 | 35 | 37 | 33 | 36 | 29 | 33 | 48 | 47 | 32 | 32 | 21 | 35 | 33 | 31 | 31 | 36 | 18   | 32.5 |
| Claysville.....    | Maximum | 46 | 51 | 52 | 53 | 49 | 48 | 52 | 69 | 79 | 77 | 62 | 67 | 79 | 78 | 75 | 79 | 77 | 73 | 83 | 83 | 81 | 61 | 40 | 54 | 57 | 57 | 42 | 57 | 55 | 62   | 63.3 |
|                    | Minimum | 32 | 30 | 31 | 37 | 27 | 35 | 34 | 27 | 43 | 48 | 42 | 28 | 37 | 42 | 37 | 32 | 41 | 35 | 34 | 50 | 57 | 34 | 31 | 27 | 41 | 37 | 29 | 30 | 41 | 25   | 35.8 |
| Clearfield.....    | Maximum | 43 | 41 | 48 | 45 | 48 | 30 | 35 | 20 | 28 | 30 | 40 | 40 | 18 | 26 | 35 | 31 | 22 | 36 | 28 | 30 | 39 | 39 | 30 | 30 | 22 | 31 | 36 | 30 | 34 | 21   | 30.0 |
|                    | Minimum | 30 | 21 | 27 | 30 | 30 | 35 | 40 | 62 | 69 | 75 | 65 | 58 | 66 | 70 | 66 | 68 | 71 | 71 | 74 | 71 | 75 | 71 | 55 | 55 | 55 | 62 | 50 | 56 | 55 | 58   | 61.0 |
| Coatesville.....   | Maximum | 44 | 47 | 62 | 60 | 50 | 49 | 37 | 37 | 37 | 41 | 49 | 32 | 34 | 44 | 40 | 35 | 41 | 51 | 43 | 40 | 45 | 48 | 39 | 34 | 40 | 44 | 37 | 35 | 43 | 30   | 39.7 |
|                    | Minimum | 35 | 40 | 35 | 47 | 39 | 39 | 37 | 37 | 37 | 41 | 49 | 34 | 44 | 40 | 35 | 41 | 51 | 43 | 40 | 45 | 48 | 39 | 34 | 40 | 44 | 37 | 36 | 50 | 50 | 52   | 58.6 |
| Corry.....         | Maximum | 39 | 45 | 42 | 50 | 50 | 51 | 48 | 65 | 79 | 72 | 49 | 32 | 43 | 37 | 21 | 41 | 40 | 35 | 28 | 45 | 31 | 32 | 54 | 55 | 32 | 25 | 20 | 35 | 29 | 30   | 32.3 |
|                    | Minimum | 32 | 30 | 30 | 32 | 25 | 26 | 31 | 25 | 32 | 43 | 37 | 21 | 41 | 40 | 35 | 28 | 45 | 31 | 32 | 54 | 55 | 32 | 25 | 20 | 35 | 29 | 30 | 31 | 23 | 23   | 32.8 |
| Emporium.....      | Maximum | 39 | 45 | 40 | 49 | 50 | 48 | 43 | 64 | 74 | 75 | 55 | 61 | 75 | 66 | 66 | 72 | 65 | 67 | 76 | 77 | 78 | 69 | 39 | 50 | 59 | 52 | 41 | 52 | 53 | 53   | 58.4 |
|                    | Minimum | 34 | 34 | 28 | 32 | 23 | 28 | 25 | 32 | 52 | 35 | 20 | 25 | 35 | 23 | 23 | 23 | 31 | 28 | 40 | 40 | 40 | 34 | 34 | 23 | 34 | 35 | 34 | 33 | 25 | 24   | 31.4 |
| Erie.....          | Maximum | 37 | 45 | 41 | 45 | 46 | 43 | 45 | 61 | 75 | 65 | 48 | 65 | 73 | 52 | 53 | 62 | 69 | 57 | 72 | 72 | 62 | 69 | 57 | 72 | 62 | 49 | 60 | 53 | 38 | 42   | 38.8 |
|                    | Minimum | 32 | 32 | 35 | 35 | 32 | 32 | 32 | 36 | 49 | 43 | 34 | 30 | 52 | 40 | 37 | 40 | 48 | 42 | 42 | 42 | 49 | 60 | 53 | 38 | 33 | 33 | 42 | 37 | 34 | 34   | 36.3 |
| Franklin.....      | Maximum | 39 | 52 | 43 | 53 | 55 | 52 | 48 | 67 | 79 | 71 | 51 | 68 | 77 | 72 | 75 | 79 | 70 | 71 | 81 | 81 | 79 | 62 | 50 | 50 | 53 | 41 | 55 | 45 | 56 | 61.0 |      |
|                    | Minimum | 31 | 32 | 35 | 30 | 25 | 28 | 30 | 24 | 26 | 36 | 40 | 42 | 32 | 35 | 37 | 36 | 38 | 38 | 38 | 49 | 52 | 54 | 36 | 30 | 33 | 43 | 38 | 37 | 39 | 29   | 35.6 |
| Freeland.....      | Maximum | 38 | 39 | 51 | 50 | 46 | 46 | 41 | 55 | 65 | 67 | 65 | 55 | 69 | 62 | 62 | 68 | 66 | 64 | 72 | 71 | 73 | 67 | 52 | 49 | 41 | 53 | 41 | 48 | 49 | 51   | 55.9 |
|                    | Minimum | 31 | 33 | 32 | 37 | 30 | 33 | 29 | 27 | 42 | 41 | 39 | 22 | 37 | 42 | 32 | 35 | 46 | 38 | 42 | 46 | 46 | 46 | 31 | 26 | 34 | 37 | 31 | 27 | 32 | 27   | 35.0 |
| Genesee.....       | Maximum | 40 | 38 | 38 | 45 | 45 | 46 | 42 | 50 | 72 | 73 | 54 | 60 | 78 | 77 | 65 | 72 | 68 | 65 | 75 | 79 | 77 | 66 | 40 | 45 | 48 | 50 | 39 | 49 | 47 | 49   | 56.4 |
|                    | Minimum | 29 | 31 | 25 | 35 | 20 | 23 | 29 | 23 | 35 | 33 | 17 | 30 | 31 | 19 | 25 | 32 | 30 | 25 | 43 | 38 | 31 | 25 | 32 | 36 | 30 | 29 | 30 | 29 | 30 | 25   | 30.1 |
| Gettysburg.....    | Maximum | 45 | 48 | 57 | 61 | 53 | 49 | 42 | 65 | 76 | 77 | 74 | 63 | 72 | 68 | 66 | 71 | 74 | 73 | 77 | 76 | 77 | 71 | 49 | 56 | 54 | 63 | 51 | 60 | 68 | 62   | 63.3 |
|                    | Minimum | 35 | 39 | 36 | 47 | 36 | 39 | 34 | 36 | 38 | 42 | 49 | 32 | 36 | 45 | 38 | 37 | 45 | 49 | 44 | 43 | 46 | 49 | 39 | 32 | 42 | 46 | 37 | 38 | 45 | 31   | 40.2 |
| Greensburg.....    | Maximum | 45 | 48 | 55 | 52 | 49 | 47 | 46 | 66 | 79 | 77 | 60 | 65 | 77 | 76 | 73 | 77 | 74 | 72 | 82 | 82 | 81 | 74 | 37 | 53 | 58 | 56 | 40 | 56 | 53 | 59   | 62.3 |
|                    | Minimum | 34 | 33 | 34 | 37 | 30 | 36 | 33 | 30 | 43 | 55 | 37 | 27 | 38 | 45 | 40 | 39 | 47 | 39 | 43 | 53 | 54 | 33 | 32 | 29 | 41 | 36 | 31 | 32 | 38 | 26   | 37.5 |
| Grove City.....    | Maximum | 48 | 49 | 45 | 51 | 49 | 52 | 50 | 65 | 78 | 68 | 63 | 56 | 76 | 74 | 75 | 75 | 72 | 69 | 78 | 79 | 78 | 77 | 43 | 50 | 53 | 53 | 40 | 54 | 53 | 55   | 60.9 |
|                    | Minimum | 31 | 32 | 30 | 34 | 28 | 31 | 31 | 38 | 37 | 45 | 37 | 23 | 32 | 38 | 36 | 40 | 52 | 34 | 37 | 53 | 54 | 48 | 29 | 23 | 37 | 34 | 29 | 35 | 35 | 35   | 35.9 |
| Hamburg.....       | Maximum | 46 | 45 | 58 | 56 | 51 | 47 | 46 | 62 | 75 | 67 | 68 | 67 | 66 | 69 | 69 | 68 | 70 | 72 | 75 | 75 | 74 | 76 | 70 | 58 | 59 | 71 | 68 | 68 | 53 | 55   | 63.5 |
|                    | Minimum | 36 | 39 | 30 | 42 | 32 | 33 | 36 | 37 | 39 | 45 | 45 | 31 | 30 | 38 | 30 | 39 | 36 | 45 | 35 | 40 | 38 | 37 | 30 | 26 | 30 | 38 | 28 | 25 | 40 | 26   | 35.2 |
| Harrisburg.....    | Maximum | 43 | 47 | 58 | 54 | 52 | 49 | 42 | 65 | 72 | 74 | 65 | 59 | 73 | 68 | 68 | 70 | 69 | 71 | 75 | 73 | 76 | 67 | 43 | 54 | 51 | 61 | 45 | 56 | 55 | 57   | 60.4 |
|                    | Minimum | 37 | 40 | 38 | 43 | 38 | 39 | 35 | 40 | 41 | 44 | 49 | 36 | 42 | 47 | 42 | 40 | 50 | 52 | 44 | 48 | 50 | 39 | 37 | 36 | 42 | 41 | 38 | 38 | 42 | 35   | 41.4 |
| Hawley.....        | Maximum | 43 | 46 | 51 | 47 | 51 | 50 | 47 | 58 | 70 | 72 | 68 | 57 | 75 | 72 | 67 | 69 | 66 | 65 | 76 | 77 | 76 | 76 | 63 | 52 | 51 | 58 | 57 | 50 | 48 | 50   | 60.3 |
|                    | Minimum | 30 | 38 | 29 | 39 | 25 | 32 | 32 | 31 | 33 | 40 | 40 | 25 | 26 | 41 | 26 | 25 | 30 | 40 | 28 | 34 | 35 | 47 | 36 | 29 | 29 | 42 | 38 | 32 | 35 | 27   | 33.1 |
| Huntingdon.....    | Maximum | 44 | 49 | 48 | 52 | 54 | 51 | 42 | 65 | 76 | 71 | 64 | 65 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |



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# CLIMATOLOGICAL DATA.

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## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

MAY, 1931.

No. 5

### GENERAL SUMMARY.

The month of May started with general frosts, and with severe freezing in a large portion of the State. Thereafter the conditions were mostly seasonable, and the mean for the month was slightly above the May normal. The winter grains were not injured by the frosts, and most of the other crops were not advanced enough to suffer materially. The soil was chilled, and crop growth was retarded to some extent. It was at first believed that the orchard fruits were hard hit, but it later developed that damage was confined to valley lands in which the air drainage was poor. The rainfall was generally heavy, the average being about thirty-five per cent above the May normal. The heaviest rainfalls occurred, in most cases, in the driest regions where the effects of the long continued drought had not been overcome. They were sufficient to amply restore the surface water supply, and in most places the deep soil seemed to assume a more nearly normal condition. Springs and shallow wells came back, and the surface soil retained its moisture better than it did last fall. Light snow fell in the northeastern portion of the State on the 23d and 24th with 2.0 inches reported from Montrose and Freeland. Strong winds prevailed during the snowfall, and no damage to growing crops resulted. Corn planting was delayed by the wet condition of the fields, and was not finished in the northern counties at the close of the month. Winter wheat and rye made a good growth, and rye was mostly headed. Both grains developed heavy straw and fairly large heads. Oats made a fair growth and was generally looking good, and was reported as better than an average crop. Pastures were spotted in some sections, and were backward in the greater portion of the State, but improved materially during the month. Alfalfa was exceptionally good, but clover was badly spotted in some sections. The month seemed to have its full share of severe local storms. Thunderstorms were especially numerous in the western portion of the State. The worst storms of the month occurred on Decoration Day when considerable damage by wind and lightning was reported. The winds were most severe in the northeastern part of the State where many silos were blown down, buildings were unroofed, and large trees were uprooted. The lightning seemed to be most severe in the central portion of the State. A farmer near Johnstown was instantly killed by lightning on the 19th, and several other persons in that region were injured. Lightning did some damage at Montrose. A few hailstorms were reported with no serious damage.

### TEMPERATURE.

The mean temperature for the State, as shown by reports from 90 stations, was 59.8°, which is 0.4° above the normal for May.

The highest monthly mean was 66.6° at Marcus Hook, and the lowest, 52.1° at Mount Pocono. The highest temperature recorded during the month was 98° at Arendtsville on the 29th, while the lowest, 19°, was recorded at Brookville and Chambersville on the 1st. The greatest daily range of temperature for the month was 60° at Bradford on the 28th.

### PRECIPITATION.

The average precipitation for the State, based on the reports from 146 well-distributed stations, was 5.28 inches, or an excess of 1.38 inches above the normal. The greatest monthly total was 12.97 inches at Center Hall, while the least, 2.33 inches, was reported from Lancaster. The greatest amount recorded in any 24 consecutive hours was 3.75 inches at Center Hall on the 22-23d.

Snowfall averaged a trace, which is exactly normal. The greatest fall in 24 hours was 2.0 inches, which amount also represented the greatest for the month, occurring at Montrose and Freeland on the 23d-24th.

### COMPARATIVE DATA FOR MAY

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 57.3        | 91      | 24     | 4.24          | 8.41     | 2.26  | .....       | .....         | .....  | 16                     |
| 1889.....                | 60.4        | 96      | 25     | 5.91          | 12.41    | 2.51  | .....       | .....         | .....  | 11                     |
| 1890.....                | 58.5        | 89      | 23     | 6.71          | 12.41    | 2.96  | 7           | 11            | 13     | 15                     |
| 1891.....                | 57.3        | 93      | 20     | 2.12          | 4.41     | 0.31  | 10          | 10            | 11     | 8                      |
| 1892.....                | 58.5        | 91      | 28     | 5.70          | 9.30     | 3.77  | 7           | 10            | 14     | 16                     |
| 1893.....                | 57.9        | 93      | 26     | 5.54          | 9.20     | 2.92  | 11          | 8             | 12     | 12                     |
| 1894.....                | 60.8        | 92      | 27     | 8.88          | 15.02    | 2.72  | 9           | 8             | 14     | 16                     |
| 1895.....                | 60.6        | 102     | 22     | 2.68          | 6.46     | 0.86  | 13          | 10            | 8      | 9                      |
| 1896.....                | 65.4        | 98      | 31     | 2.85          | 6.30     | 1.19  | 10          | 12            | 9      | 10                     |
| 1897.....                | 57.7        | 88      | 25     | 5.24          | 10.05    | 1.71  | 11          | 10            | 10     | 12                     |
| 1898.....                | 60.0        | 94      | 22     | 5.11          | 10.15    | 2.79  | 8           | 9             | 14     | 15                     |
| 1899.....                | 61.1        | 100     | 24     | 3.82          | 6.40     | 1.15  | 10          | 11            | 10     | 11                     |
| 1900.....                | 60.4        | 96      | 20     | 2.79          | 7.63     | 0.72  | 13          | 9             | 9      | 9                      |
| 1901.....                | 58.9        | 91      | 28     | 5.56          | 7.96     | 2.24  | 8           | 9             | 14     | 15                     |
| 1902.....                | 59.8        | 95      | 25     | 1.96          | 4.45     | 0.29  | 13          | 11            | 7      | 8                      |
| 1903.....                | 61.8        | 94      | 18     | 1.67          | 4.65     | 0.22  | 16          | 9             | 6      | 7                      |
| 1904.....                | 61.6        | 94      | 21     | 3.78          | 7.50     | 2.07  | 12          | 10            | 9      | 11                     |
| 1905.....                | 60.8        | 93      | 22     | 5.59          | 5.17     | 0.56  | 11          | 9             | 11     | 12                     |
| 1906.....                | 60.0        | 99      | 23     | 3.23          | 5.59     | 0.93  | 12          | 10            | 9      | 10                     |
| 1907.....                | 54.8        | 91      | 19     | 3.08          | 6.38     | 1.44  | 11          | 9             | 11     | 11                     |
| 1908.....                | 61.2        | 96      | 22     | 6.28          | 10.95    | 3.19  | 10          | 10            | 11     | 15                     |
| 1909.....                | 59.2        | 92      | 23     | 2.90          | 5.52     | 1.51  | 12          | 10            | 9      | 10                     |
| 1910.....                | 56.8        | 88      | 24     | 3.88          | 6.08     | 1.73  | 11          | 10            | 10     | 12                     |
| 1911.....                | 65.2        | 99      | 20     | 1.97          | 6.81     | 0.42  | 17          | 10            | 4      | 7                      |
| 1912.....                | 61.2        | 91      | 28     | 3.15          | 5.99     | 0.99  | 14          | 8             | 9      | 11                     |
| 1913.....                | 58.5        | 93      | 21     | 3.86          | 6.45     | 0.48  | 13          | 8             | 10     | 10                     |
| 1914.....                | 61.5        | 96      | 19     | 3.34          | 6.52     | 0.90  | 16          | 9             | 6      | 9                      |
| 1915.....                | 56.2        | 84      | 21     | 4.16          | 7.45     | 2.29  | 10          | 8             | 13     | 14                     |
| 1916.....                | 61.0        | 93      | 26     | 3.19          | 6.09     | 1.49  | 12          | 11            | 8      | 13                     |
| 1917.....                | 53.3        | 90      | 20     | 3.39          | 8.09     | 1.65  | 9           | 10            | 12     | 13                     |
| 1918.....                | 65.1        | 95      | 21     | 5.04          | 8.37     | 1.81  | 13          | 12            | 6      | 14                     |
| 1919.....                | 59.5        | 98      | 27     | 5.80          | 13.59    | 2.86  | 13          | 7             | 11     | 14                     |
| 1920.....                | 56.6        | 92      | 18     | 2.02          | 3.65     | 0.67  | 17          | 8             | 6      | 8                      |
| 1921.....                | 59.8        | 93      | 22     | 3.93          | 8.17     | 0.97  | 14          | 8             | 9      | 11                     |
| 1922.....                | 62.5        | 96      | 20     | 3.21          | 7.14     | 1.69  | 15          | 8             | 8      | 10                     |
| 1923.....                | 58.3        | 93      | 20     | 3.50          | 7.43     | 1.23  | 19          | 6             | 6      | 8                      |
| 1924.....                | 54.6        | 92      | 18     | 5.71          | 9.64     | 3.31  | 9           | 9             | 13     | 17                     |
| 1925.....                | 55.2        | 98      | 22     | 3.49          | 7.98     | 1.02  | 13          | 10            | 8      | 11                     |
| 1926.....                | 58.8        | 95      | 18     | 1.78          | 5.52     | 0.62  | 17          | 10            | 4      | 8                      |
| 1927.....                | 58.2        | 92      | 23     | 4.14          | 7.23     | 1.75  | 9           | 9             | 13     | 16                     |
| 1928.....                | 58.0        | 95      | 20     | 2.23          | 5.10     | 0.65  | 15          | 9             | 7      | 10                     |
| 1929.....                | 58.5        | 97      | 23     | 4.81          | 8.43     | 1.96  | 13          | 9             | 8      | 14                     |
| 1930.....                | 61.2        | 99      | 25     | 3.03          | 6.39     | 1.03  | 15          | 8             | 8      | 10                     |
| 1931.....                | 59.8        | 98      | 19     | 5.28          | 12.97    | 2.33  | 13          | 9             | 9      | 15                     |
| Normal and Extremes..... | 59.4        | 102     | 18     | 3.90          | 15.02    | 0.22  | 12          | 9             | 10     | 12                     |



## Climatological Data for May, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 19                      | 59.8                         | .....                     | 91      | 29   | 30     | 1    | 39                       | 3.01  | -0.53                     | 0.79                 | 0                         | 15                           | 19    | 6          | 6                            | s.        | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 58.3                         | -0.5                      | 89      | 30   | 25     | 1    | 39                       | 5.55  | +1.61                     | 1.55                 | 0                         | 17                           | 18    | 9          | 4                            | w.        | F. E. Rooney.               |
| Arendtsville       | Adams        | 700             | 9                       | 62.4                         | .....                     | 98      | 29   | 32     | 4    | 44                       | 4.54  | .....                     | 1.60                 | 0                         | 12                           | 16    | 5          | 10                           | n.        | Dr. S. W. Frost.            |
| Bellefonte         | Center       | 1,050           | 23                      | 57.7                         | -3.4                      | 89      | 28   | 23     | 1    | 44                       | 8.03  | +4.32                     | 1.85                 | 0                         | 17                           | 4     | 13         | 14                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 63.1                         | +0.9                      | 92      | 29   | 33     | 1    | 36                       | 3.19  | -0.38                     | 0.77                 | 0                         | 13                           | 15    | 3          | 13                           | sw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 62.9                         | +1.5                      | 93      | 28   | 30     | 1    | 47                       | 4.34  | +0.54                     | 1.26                 | 0                         | 12                           | 17    | 4          | 10                           | se.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 62.8                         | +2.3                      | 95      | 29   | 27     | 1    | 47                       | 6.09  | +2.49                     | 1.46                 | 0                         | 16                           | 18    | 5          | 8                            | .....     | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 54.5                         | -4.3                      | 91      | 28   | 25     | 1    | 46                       | 12.97 | +9.01                     | 3.75                 | 0                         | 14                           | 20    | 4          | 7                            | .....     | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 63.1                         | +2.0                      | 93      | 30   | 32     | 4    | 43                       | 4.04  | +0.49                     | 1.57                 | 0                         | 13                           | 9     | 12         | 10                           | s.        | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 58.9                         | +0.1                      | 93      | 28   | 22     | 1    | 58                       | 7.38  | +2.90                     | 1.30                 | 0                         | 18                           | 7     | 15         | 9                            | w.        | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 61.6                         | +0.3                      | 91      | 30   | 34     | 1    | 37                       | 7.04  | +3.10                     | 2.00                 | 0                         | 13                           | 17    | 1          | 13                           | sw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 60.2                         | +1.2                      | 90      | 30   | 30     | 4    | 39                       | 3.94  | +0.73                     | 1.07                 | 0                         | 15                           | 12    | 8          | 11                           | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 57.4                         | -0.4                      | 86      | 28   | 22     | 1    | 48                       | 7.23  | +2.84                     | 1.27                 | 0                         | 17                           | 12    | 10         | 9                            | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 61.8                         | +0.8                      | 90      | 29   | 33     | 1    | 38                       | 2.32  | -0.47                     | 0.78                 | 0                         | 10                           | 16    | 4          | 11                           | se.       | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 58.4                         | +2.2                      | 89      | 29   | 28     | 1    | 37                       | 6.31  | +1.93                     | 1.70                 | 2.0                       | 16                           | 5     | 15         | 11                           | se.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 61.8                         | +1.3                      | 94      | 30   | 31     | 4    | 43                       | 4.07  | +0.56                     | 0.84                 | 0                         | 13                           | 16    | 3          | 12                           | s.        | Prof. N. W. Swayne.         |
| Gettysburg         | Adams        | 553             | 58                      | 63.0                         | +1.7                      | 92      | 30   | 35     | 4    | 38                       | 3.63  | -0.26                     | 0.63                 | 0                         | 12                           | 12    | 8          | 11                           | s.        | Dr. Henry Stewart.          |
| Gordon             | Schuylkill   | 840             | 27                      | 59.1                         | +1.3                      | 90      | 29   | 22     | 1    | 46                       | 4.48  | +0.62                     | 1.30                 | 0                         | 14                           | 16    | 7          | 8                            | w.        | Capt. J. G. Johnson.        |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 54.0                         | .....                     | 84      | 29   | 21     | 1    | 43                       | 5.57  | +1.40                     | 1.36                 | 0                         | 13                           | 17    | 5          | 9                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      | 60.8                         | -0.1                      | 90      | 29   | 28     | 1    | 41                       | 3.97  | -0.48                     | 1.03                 | 0                         | 12                           | 11    | 16         | 4                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 63.9                         | +1.1                      | 94      | 29   | 35     | 4    | 37                       | 4.00  | +0.76                     | 1.00                 | 0                         | 15                           | 15    | 5          | 11                           | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 62.3                         | +0.5                      | 91      | 29   | 37     | 1    | 33                       | 3.75  | +0.31                     | 1.53                 | 0                         | 15                           | 7     | 16         | 8                            | w.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 13                      | 58.0                         | +1.2                      | 92      | 28   | 22     | 1    | 51                       | 3.98  | +0.23                     | 0.70                 | 0                         | 17                           | 13    | 10         | 8                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 64.2                         | +2.4                      | 93      | 31   | 41     | 1    | 33                       | 2.73  | -0.15                     | 0.58                 | 0                         | 14                           | 10    | 12         | 9                            | .....     | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 60.3                         | +0.1                      | 92      | 29   | 27     | 1    | 47                       | 7.50  | +3.36                     | 3.15                 | 0                         | 12                           | 12    | 12         | 7                            | w.        | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 62.0                         | +1.2                      | 97      | 29   | 29     | 4    | 51                       | 7.50  | +4.65                     | 1.39                 | 0                         | 16                           | 8     | 4          | 19                           | .....     | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 59.0                         | -1.7                      | 92      | 29   | 27     | 1    | 47                       | 2.33  | -0.90                     | 0.52                 | 0                         | 12                           | 19    | 5          | 7                            | s.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 58.4                         | +1.5                      | 90      | 28   | 23     | 1    | 48                       | 6.55  | +2.45                     | 0.90                 | 0                         | 17                           | 12    | 15         | 4                            | .....     | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 47                      | 61.5                         | +0.7                      | 92      | 29   | 32     | 1    | 43                       | 3.18  | -0.68                     | 1.51                 | 0                         | 13                           | 15    | 6          | 10                           | sw.       | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 55                      | 62.4                         | +2.5                      | 93      | 29   | 28     | 1    | 45                       | 6.85  | +3.09                     | 1.22                 | 0                         | 14                           | 15    | 3          | 13                           | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 62.4                         | +0.8                      | 95      | 29   | 29     | 1    | 46                       | 8.11  | +4.22                     | 1.79                 | 0                         | 18                           | 13    | 11         | 7                            | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 62.6                         | +3.4                      | 90      | 30   | 23     | 1    | 48                       | 4.57  | +0.70                     | 1.44                 | 0                         | 16                           | 20    | 6          | 5                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 66.6                         | .....                     | 92      | 30   | 40     | 2    | 36                       | 3.16  | .....                     | 1.07                 | 0                         | 12                           | 10    | 11         | 10                           | sw.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 60.6                         | +0.9                      | 95      | 29   | 26     | 1    | 49                       | 4.54  | +0.53                     | 1.14                 | 0                         | 15                           | 18    | 4          | 9                            | s.        | R. K. Wintermute.           |
| Midlinton          | Juniata      | 445             | 27                      | 61.2                         | +1.1                      | 92      | 29   | 29     | 1    | 42                       | 6.54  | +2.78                     | 2.15                 | 0                         | 15                           | 15    | 5          | 11                           | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 52.9                         | -1.6                      | 84      | 29   | 20     | 1    | 37                       | 7.50  | +3.63                     | 1.40                 | 2.0                       | 11                           | 16    | 9          | 6                            | w.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 52.1                         | -1.8                      | 86      | 29   | 27     | 1    | 42                       | 5.04  | -1.04                     | 1.20                 | 0                         | 17                           | 15    | 5          | 11                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 57.6                         | +0.7                      | 90      | 29   | 23     | 1    | 44                       | 6.87  | +2.51                     | 1.58                 | 0                         | 13                           | 16    | 9          | 6                            | sw.       | H. O. Hacker.               |
| Narberth           | Montgomery   | 300             | 12                      | 61.0                         | +0.6                      | 90      | 30   | 34     | 5    | 38                       | 3.75  | -0.10                     | 0.94                 | 0                         | 12                           | 13    | 9          | 9                            | sw.       | Charles Decker.             |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 59.7                         | -0.4                      | 92      | 30   | 29     | 1    | 46                       | 4.71  | +0.60                     | 1.02                 | 0                         | 16                           | 16    | 6          | 9                            | e.        | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 13                      | 59.3                         | .....                     | 91      | 29   | 26     | 1    | 41                       | 3.79  | -0.06                     | 0.80                 | 0                         | 14                           | 11    | 11         | 9                            | ne.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 60                      | 64.2                         | +1.3                      | 91      | 30   | 43     | 1    | 30                       | 4.44  | +1.18                     | 1.24                 | 0                         | 12                           | 7     | 12         | 12                           | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 64.0                         | .....                     | 93      | 30   | 41     | 1    | 30                       | 3.79  | .....                     | 1.08                 | 0                         | 11                           | 9     | 12         | 10                           | .....     | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 62.0                         | +0.1                      | 89      | 30   | 40     | 1    | 28                       | 3.54  | +0.33                     | 0.99                 | 0                         | 12                           | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 21                      | 64.9                         | +3.7                      | 94      | 30   | 30     | 1    | 45                       | 7.55  | +3.55                     | 2.95                 | 0                         | 11                           | 14    | 10         | 7                            | s.        | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 46                      | 60.3                         | +0.9                      | 92      | 29   | 26     | 1    | 43                       | 3.32  | -0.65                     | 1.06                 | 0                         | 14                           | 14    | 8          | 9                            | sw.       | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 62.6                         | +0.1                      | 91      | 29   | 35     | 1    | 34                       | 3.66  | -0.01                     | 1.77                 | 0                         | 14                           | 8     | 14         | 9                            | se.       | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 37                      | 59.6                         | +0.2                      | 91      | 29   | 30     | 1    | 40                       | 4.03  | +0.76                     | 0.98                 | 0                         | 16                           | 9     | 12         | 10                           | sw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 41                      | 60.9                         | +0.4                      | 90      | 30   | 27     | 1    | 41                       | 5.52  | +1.53                     | 1.25                 | 0                         | 12                           | 15    | 7          | 9                            | sw.       | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 35                      | 63.6                         | +1.0                      | 91      | 29   | 36     | 1    | 37                       | 2.98  | -0.34                     | 0.67                 | 0                         | 13                           | 15    | 7          | 9                            | s.        | W. S. Guiles.               |
| State College      | Center       | 1,217           | 47                      | 59.4                         | +0.8                      | 89      | 28   | 28     | 1    | 39                       | 9.30  | +5.36                     | 2.05                 | 0                         | 15                           | 8     | 18         | 5                            | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 17                      | 58.4                         | -0.9                      | 92      | 29   | 25     | 1    | 50                       | 3.49  | 0.0                       | 1.06                 | 0                         | 11                           | 13    | 4          | 14                           | w.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 37                      | 58.0                         | +0.7                      | 88      | 29   | 25     | 1    | 45                       | 6.04  | +2.85                     | 0.82                 | 0                         | 17                           | 12    | 8          | 11                           | s.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 61                      | 57.3                         | +1.0                      | 92      | 28   | 22     | 1    | 52                       | 5.80  | +1.94                     | 1.14                 | T.                        | 12                           | 14    | 12         | 5                            | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 82                      | 61.6                         | +1.0                      | 87      | 30   | 37     | 1    | 30                       | 6.15  | +1.83                     | 2.35                 | 0                         | 11                           | 14    | 10         | 7                            | s.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 45                      | 61.0                         | +0.6                      | 91      | 29   | 28     | 1    | 43                       | 7.34  | +3.93                     | 1.48                 | 0                         | 16                           | 16    | 5          | 10                           | se.       | Miss Veronica E. April.     |
| York               | York         | 400             | 43                      | 62.6                         | +1.5                      | 94      | 29   | 29     | 1    | 45                       | 4.48  | +1.17                     | 1.65                 | 0                         | 15                           | 16    | 7          | 8                            | w.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 39                      | 58.8                         | -1.5                      | 87      | 28   | 27     | 1    | 45                       | 3.57  | +0.32                     | 1.06                 | 0                         | 16                           | 9     | 9          | 13                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 56.0                         | +1.0                      | 91      | 28   | 22     | 1    | 60                       | 4.43  | +0.78                     | 1.12                 | 0                         | 17                           | 8     | 11         | 12                           | sw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 53.8                         | -1.5                      | 89      | 31   | 19     | 1    | 52                       | 4.89  | +1.35                     | 0.65                 | 0                         | 15                           | 13    | 5          | 13                           | .....     | John Fawcett.               |
| Butler             | Butler       | 1,152           | 17                      | 58.8                         | .....                     | 90      | 30   | 22     | 1    | 50                       | 4.86  | +1.48                     | 1.25                 | 0                         | 14                           | 16    | 10         | 5                            | w.        | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 1                       | 58.4                         | -1.4                      | 87      | 28   | 19     | 1    | 51                       | 4.32  | +0.03                     | 0.85                 | 0                         | 16                           | 11    | 3          | 17                           | w.        | John E. Lewis.              |
| Clairton           | Allegheny    | 1,020           | .....                   | 59.4                         | .....                     | 86      |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



## Daily Precipitation for May, 1931

| Stations           | Drainage Basin | Day of month |     |   |   |   |    |      |      |     |     |     |      |      |      |     |    |     |     |     |     |      |      |      |      |      |     |      |     |      |      |       | Total |
|--------------------|----------------|--------------|-----|---|---|---|----|------|------|-----|-----|-----|------|------|------|-----|----|-----|-----|-----|-----|------|------|------|------|------|-----|------|-----|------|------|-------|-------|
|                    |                | 1            | 2   | 3 | 4 | 5 | 6  | 7    | 8    | 9   | 10  | 11  | 12   | 13   | 14   | 15  | 16 | 17  | 18  | 19  | 20  | 21   | 22   | 23   | 24   | 25   | 26  | 27   | 28  | 29   | 30   | 31    |       |
| Atlantic Drainage. |                |              |     |   |   |   |    |      |      |     |     |     |      |      |      |     |    |     |     |     |     |      |      |      |      |      |     |      |     |      |      |       |       |
| Allentown          | Lehigh         | .01          | .12 |   |   |   |    | .09  | .79  | .02 | .01 | .07 |      | .31  | .20  | .03 |    |     |     |     |     |      | .46  | .40  | .43  |      |     | .01  |     |      |      | .06   | 3.01  |
| Altoona            | Juniata        |              | .24 |   |   |   |    | .16  | .68  |     | .12 |     | .33  | .30  | .33  |     |    | .28 |     |     | .22 | .23  | .50  | .13  | 1.55 | .06  | .04 | .04  |     |      | .34  | 5.55  |       |
| Ansonia            | W. Br. Susq.   |              | .25 |   |   |   |    | .41  | .24  |     |     |     | .51  | .89  | .03  |     |    | .55 |     |     |     | .08  | .46  |      | 1.11 | .32  | .28 | .19  |     |      | .17  | 5.43  |       |
| Arden              | Lower Susq.    | .18          |     |   |   |   |    | .56  | .39  |     | .80 | .80 |      | .25  | .15  | .13 |    |     |     |     |     |      | .35  | .02  | .63  |      |     |      |     |      | .28  | 4.54  |       |
| Baker's Summit     | Juniata        |              | .12 |   |   |   |    | .04  | .90  |     | .02 | .25 | .46  | .25  |      |     |    |     |     |     | .07 | .24  | 1.25 | .60  | .44  |      | .09 |      |     | .03  | .51  | 5.27  |       |
| Bellefonte         | W. Br. Susq.   | .28          |     |   |   |   |    | .16  | .59  |     | .34 | .03 | .13  | 1.09 | .36  |     |    | .09 | .15 |     | T.  | 1.15 | .15  | 1.58 | .42  | T.   | .35 |      |     | .89  | .27  | 8.03  |       |
| Bethlehem          | Lehigh         | .07          | .05 |   |   |   |    | .21  | .59  |     | .16 | .09 | .10  | .32  | .04  |     |    |     |     |     |     |      | .77  |      | .51  |      | .02 |      |     |      | .26  | 3.19  |       |
| Boserville         | Lower Susq.    | .15          |     |   |   |   |    | .72  | .40  |     | .12 | .13 | .10  | .42  | .45  |     |    |     |     |     |     | .35  | 1.10 | .53  | 1.07 |      | .15 |      |     |      | T.   | 5.69  |       |
| Boswell            | Lower Susq.    |              | .20 |   |   |   |    | .41  | .85  |     |     | T.  | .21  | .40  | .38  |     |    | T.  | T.  | .03 | T.  | .65  | T.   | .92  | T.   | .09  |     |      |     | .12  | 4.34 |       |       |
| Catawissa          | N. Br. Susq.   | .11          |     |   |   |   |    | .09  | 1.05 |     | .18 |     | .14  | .77  | .22  |     |    | .02 | .09 |     |     | 1.02 | .44  | .10  | 1.10 | .06  | .34 |      |     |      | T.   | .36   | 6.09  |
| Center Hall        | Susquehanna    |              | .12 |   |   |   |    | .10  | .64  |     | .28 |     | .38  |      | 2.65 | .14 |    |     |     |     |     | 2.75 | .34  |      | 3.75 | .24  | .20 | 1.00 |     |      | .38  | 12.97 |       |
| Chambersburg       | Potomac        | .03          | .15 |   |   |   |    | .24  | .34  |     | T.  | .09 | .17  | .13  | .41  |     |    | T.  | .24 |     |     |      | .60  |      | 1.57 | .03  | T.  |      |     |      | .04  | 4.04  |       |
| Clearfield         | W. Br. Susq.   | .27          |     |   |   |   |    | .05  | .67  |     | .62 | .16 | .04  | 1.15 | .25  |     |    | .61 |     |     | .66 | .40  | .10  | .15  | 1.15 | .15  | .15 | .45  |     |      | .35  | 7.38  |       |
| Coatesville        | Lower Del.     | .13          | .02 |   |   |   |    | 1.65 | .44  | T.  | .35 | .21 | .18  | .13  | .09  |     |    |     |     |     |     | 1.36 |      | .44  |      | .04  |     |      |     | 2.00 | 7.04 |       |       |
| Colebrook          | Lower Susq.    | .20          | .06 |   |   |   | T. | .58  | 1.07 |     | .06 | .10 | .19  | .19  | .11  |     |    | .01 |     |     | T.  |      | .41  |      | .48  | .02  | .04 |      |     |      | .42  | 3.94  |       |
| Cornshocken        | Schuylkill     | .05          | T.  |   |   |   |    | .99  | .14  |     |     | .74 | T.   | T.   | .10  |     |    |     |     |     |     | 1.00 | T.   | .59  |      |      |     |      |     |      | T.   | 3.61  |       |
| Cresson            | Juniata        | .23          |     |   |   |   |    | .98  |      |     | .10 |     | .50  | .30  |      |     |    | .18 |     |     | .24 | .63  |      | .80  | .60  |      | .47 |      |     | .35  |      | 5.48  |       |
| Doylestown         | Lower Del.     | .04          | .01 |   |   |   |    | .45  | .41  | .02 | .13 | .33 | .17  | .23  | .11  |     |    |     | T.  |     |     |      | 1.84 |      | .67  |      | .06 |      |     |      | .89  | 5.36  |       |
| Driftwood          | W. Br. Susq.   |              |     |   |   |   |    | .30  | 1.76 |     | .61 | .27 | 1.12 | .75  | .15  |     |    | .90 |     |     |     | .75  |      |      | 1.70 | 2.00 | .30 |      |     |      | .32  | 10.90 |       |
| Emporium           | do.            | .38          |     |   |   |   |    | .12  | 1.27 |     | .27 | .15 | .44  | .49  | T.   |     |    | T.  | .53 |     |     | .45  | .05  | .29  | .05  | 1.09 | .63 | .39  |     |      | .21  | 7.23  |       |
| Eschbach           | Lower Susq.    | .26          | .06 |   |   |   |    | .78  | .39  |     | T.  | .06 | .22  | .08  | .05  | T.  |    |     |     |     |     |      | .65  |      | .37  |      |     |      |     |      | T.   | 2.92  |       |
| Forest City        | N. Br. Susq.   |              | .17 |   |   |   |    | .93  | .37  |     |     | .55 | .94  | .11  | .69  |     |    | .72 |     |     |     | .90  |      |      | .31  | .54  | .21 | .41  |     |      |      | 6.85  |       |
| Freeland           | Lehigh         |              | .12 |   |   |   |    | .04  | 1.70 | .24 | T.  | .19 | .25  | .23  | .90  | .07 |    | .09 |     |     |     | 1.10 | .11  | .26  | .46  | .11  | .20 |      |     |      | .24  | 6.31  |       |
| Galeton            | W. Br. Susq.   | .27          |     |   |   |   |    | .05  | .54  |     | .37 | .02 | .04  | .88  | .19  |     |    | .50 | .48 |     |     | .24  | .65  |      | 1.52 | .18  | .70 |      |     |      | .30  | 6.83  |       |
| George School      | Lower Del.     | .06          | .02 |   |   |   |    | .55  | .40  |     | .16 | .68 | .08  | .12  | .23  |     |    |     |     |     |     |      | .84  |      | .50  |      | .15 |      |     |      | .28  | 4.07  |       |
| Jettysburg         | Potomac        | .09          | .08 |   |   |   | T. | .13  | .50  |     | T.  | .58 | .03  | .13  | .43  |     |    |     |     |     |     |      | .40  |      | .44  |      | .11 |      |     |      | .71  | 3.63  |       |
| Kirardville        | Lower Susq.    |              | .15 |   |   |   |    | *    | 1.25 |     |     | .09 |      | 1.34 | *    | .11 |    |     | .12 |     |     | .02  | 1.29 |      | .48  | .19  |     | .16  |     |      | .14  | 5.34  |       |
| Kordon             | Lower Susq.    | .15          | .06 |   |   |   |    | .65  | .07  |     |     | .42 | .14  | .70  | .12  |     |    | .14 |     |     |     |      | 1.30 |      | .47  | .11  | .13 | .03  |     |      |      | .85   | 4.48  |
| Kouldsboro         | Lehigh         |              | .03 |   |   |   |    | .56  | 1.36 |     | .16 |     | .04  | .23  | .48  |     |    | T.  |     |     |     | .01  | .95  |      | .45  | .20  | .25 |      |     |      | .56  | 5.57  |       |
| Kraterford         | Schuylkill     | .14          |     |   |   |   |    | .48  | .76  | T.  | .47 | .45 | .16  | .15  | .16  |     |    | T.  |     |     |     |      | 1.08 |      | .42  |      | .04 |      |     |      |      | 3.97  |       |
| Lambert            | Schuylkill     | .21          | .03 |   |   |   |    | 1.00 | .53  |     | .06 | .06 | .10  | 1.03 |      |     |    | .06 |     |     |     |      | .57  |      | .31  |      | .01 |      |     |      |      | 1.00  | 4.00  |
| Lancaster          | Lower Susq.    | .09          | .08 |   |   |   |    | .10  | .70  | .03 | T.  | .31 | .19  | .15  | .19  | .16 |    | .05 |     |     |     | .02  | .34  | .51  | T.   |      | .07 |      |     | .03  | .18  | 3.75  |       |
| Lancaster          | Lower Susq.    | .16          |     |   |   |   | T. | .27  | 1.28 |     | .01 | .05 | .19  | .43  | .19  |     |    | .02 |     |     |     | .02  | .34  | .51  | T.   |      | .07 |      |     |      | .40  | 3.98  |       |
| Lawley             | Upper Del.     |              | .08 |   |   |   |    | .66  | .14  | .01 | .33 | .12 | .11  | .24  | .04  |     |    | .39 |     |     |     |      | .76  | .02  | .29  | .19  | .03 | .16  |     |      | .12  | 4.47  |       |
| Hollisterville     | Upper Del.     |              | .05 |   |   |   |    | .80  | .14  |     | .41 | .18 | .19  | .50  | T.   |     |    | .63 |     |     |     |      |      | .76  | .02  | .29  | .19 | .03  | .16 |      |      |       | 2.73  |
| Holtwood           | Lower Susq.    | .05          | .04 |   |   |   |    | .29  | .46  | .02 |     | .31 | .11  | .31  | .03  | .05 |    | T.  |     |     |     |      | .58  | .05  | .38  |      | .05 |      |     |      |      |       |       |
| Huntingdon         | Juniata        |              | .28 |   |   |   |    | T.   | 1.10 |     |     |     | .26  | .32  | .34  |     |    | .08 |     |     | .01 | .58  | 1.25 |      | 3.15 | .09  | .04 |      |     |      | T.   | 7.50  |       |
| Hyndman            | Potomac        | .03          | .22 |   |   |   |    | .38  | 1.18 |     | .03 | .24 | 1.39 | .14  |      |     |    | .01 |     |     | T.  | .07  | 1.86 | .12  | .60  |      | .05 |      |     | .90  | .78  | 7.50  |       |
| Kylertown          | W. Br. Susq.   |              | .27 |   |   |   |    | .07  | 1.15 |     | .18 | T.  | .28  | 1.35 | .23  |     |    | .51 |     |     | .10 | .04  | .60  |      | 1.52 | .15  | .11 | .16  |     |      | .16  | 6.88  |       |
| Lakeville          | Upper Del.     |              | .07 |   |   |   |    | .59  | .20  |     | T.  | .33 | .13  | .12  | .33  | .05 |    | .39 |     |     |     |      | .95  | .04  | .30  |      | .09 | .06  |     |      | .15  | 3.80  |       |
| Lancaster          | Lower Susq.    | .17          | .06 |   |   |   |    | .37  | .29  | .12 | .05 | .08 | .11  | .28  | .06  |     |    |     |     |     |     |      | .52  |      | .40  |      | .11 |      |     |      |      | 5.44  |       |
| Lancaster          | Lehigh         | .04          | .06 |   |   |   |    | .09  | 2.27 | .62 |     | .11 | .28  | .24  | .62  | .05 |    | .05 |     |     |     |      | .51  | .08  | .27  |      | .07 | .08  |     |      | .22  | 6.55  |       |
| Lawrenceville      | N. Br. Susq.   | .10          |     |   |   |   |    | .10  | .50  |     | .38 | .32 | .10  | .35  | .43  |     |    | .90 |     |     |     | .05  | .48  |      | .86  | .37  | .72 |      |     | .55  | .02  | 3.18  |       |
| Lebanon            | Lower Susq.    | .25          | .06 |   |   |   |    | .40  | 1.11 |     | T.  | .08 | .10  | .33  | .05  |     |    | T.  |     |     |     | T.   | .81  | .01  | .40  |      | .06 |      |     |      | .24  | 6.85  |       |
| Lewisburg          | W. Br. Susq.   |              | .11 |   |   |   |    | .24  | .98  |     | .01 | T.  | .49  | 1.22 | .45  |     |    | T.  |     |     |     | T.   | .77  | .80  | T.   | 1.16 | .05 | .30  | .03 |      |      |       |       |
| Lloyd              | do.            |              |     |   |   |   |    | .69  |      |     | .08 | .14 | 1.30 |      |      |     |    | .31 |     |     | .03 | .14  |      | 1.45 |      | .21  |     |      |     | .04  | .19  | 4.58  |       |
| Lock Haven         | do.            | .02          | .22 |   |   |   |    | .45  | .42  |     | .28 | .02 | .32  | 1.00 | .77  |     |    | .26 |     |     |     | 1.22 | .57  |      | 1.62 | .23  | .21 | .12  |     |      | .01  | .35   | 8.11  |
| Lykens             | Susquehanna    |              | .07 |   |   |   |    | .09  | 1.44 |     | .22 | .13 | .24  | .27  | .03  |     |    | .08 |     |     | .03 |      | .77  |      | .79  | .08  | .19 | .03  |     |      | .11  | 4.57  |       |
| Marcus Hook        | Lower Del.     | .17          |     |   |   |   |    | *    | .24  |     | *   | *   | *    | *    | .73  |     |    |     |     |     |     |      | 1.07 |      | *    |      | T.  | .11  |     |      | .84  | 3.16  |       |
| Mauch Chunk        | Lehigh         | .13          | .06 |   |   |   |    | .70  | 1.14 |     | .24 | .07 | .25  | .66  | .04  |     |    | .04 |     |     |     |      | .73  |      | .30  | .03  | .12 |      |     | .03  | T.   | 4.54  |       |
| Millintown         | Juniata        |              | .12 |   |   |   |    | .27  | .51  |     | .03 |     | .26  | 1.22 | .34  |     |    | .08 |     |     | .40 | .35  | .61  |      | 2.15 | .10  | .09 |      |     |      |      |       |       |



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| Stations          | Drainage Basin | Day of month |     |     |   |     |      |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |      |     |     |     |     |      |     |     |     | Total |
|-------------------|----------------|--------------|-----|-----|---|-----|------|------|------|------|------|------|------|------|------|-----|------|------|-----|------|-----|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-------|
|                   |                | 1            | 2   | 3   | 4 | 5   | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15  | 16   | 17   | 18  | 19   | 20  | 21   | 22   | 23   | 24  | 25  | 26  | 27  | 28   | 29  | 30  | 31  |       |
| Ohio Drainage.    |                |              |     |     |   |     |      |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |      |     |     |     |     |      |     |     |     |       |
| Beaver Dam\|\|\| | Ohio.          |              | .09 |     |   |     |      | .12  | 1.06 |      | .03  | .04  | .16  | .27  | .24  |     | .16  |      | .49 |      |     | .08  |      | .42  | .06 | .25 | .02 |     |      |     |     | .08 |       |
| Beaver Falls\|\|\| | Beaver         |              | .12 |     |   |     |      | .07  | 1.26 |      | .02  | .05  | .19  | .22  | .20  |     | .16  |      | .61 |      | .06 |      | .35  | .05  | .19 | .12 |     |     |      |     | .45 |     |       |
| Bradford.         | Allegheny      | .40          |     |     |   |     |      | .02  | .53  |      | .38  | .02  | .20  | .10  |      |     | .40  | .14  |     | .05  | .20 | .03  | .04  | .12  | .10 | .50 |     |     |      |     | .20 |     |       |
| Brookville.       | do             | .16          |     |     |   |     |      | .30  | .15  | .28  | .49  | .35  | .25  | .65  | T.   |     | .48  |      | .25 |      | .27 |      | .47  | .40  | .13 |     |     |     | .26  |     | .08 |     |       |
| Butler.           | Ohio           | .12          |     |     |   |     |      | .16  | .94  |      | .16  | .10  |      | 1.25 | .20  |     | .31  |      |     | .79  | .13 |      | .62  | .12  | .03 |     |     |     |      |     | .08 |     |       |
| Chambersville.    | Allegheny      | .20          |     |     |   |     |      | .08  | .54  | T.   | .75  | .02  | .10  | .33  | .20  |     | .27  |      | .01 | .18  | .19 | .20  | .85  | .06  |     |     |     |     |      | .34 |     |     |       |
| Clairton\| | Monongahela.   |              | .04 |     |   |     |      | .95  | .46  |      | .03  | .43  | .02  | .20  | .28  | .03 |      | .09  |     | .28  | .20 | .01  | .20  | .15  | .16 |     |     |     | .01  | .16 |     |     |       |
| Claysville.       | Ohio           | .16          |     |     |   |     |      | .15  | .57  |      | .15  | .05  | .38  | .34  | .63  |     |      | .03  |     | .20  | T.  | .11  | .10  | .44  | .30 | .10 |     |     |      |     | .04 |     |       |
| Clymer\|\| | Conemaugh.     |              |     |     |   | .35 |      |      | .58  |      | .35  |      |      | .55  | .38  | .06 |      | .38  |     |      |     | .34  |      | .85  | .18 |     |     |     | .20  |     |     |     |       |
| Confluence\|\|\| | Youghiogheny   |              | .38 |     |   |     |      | .03  | 1.31 |      |      |      |      | .38  | 1.05 |     |      |      |     | .13  | .70 |      | 1.10 | .40  | .13 |     |     |     |      | .17 |     |     |       |
| Corry.            | Allegheny.     | .12          |     |     |   |     |      |      | 1.02 | .12  | .10  | T.   | .15  | T.   |      |     | .56  |      |     |      | .86 | .10  |      | .20  | .75 | .35 |     |     | .42  |     |     |     |       |
| Coudersport.      | Allegheny      | .36          |     |     |   |     | .06  | 1.13 |      | .18  |      | .10  | .49  | .26  | .05  |     | .53  |      |     |      | .50 | .56  |      | 1.18 | .55 | .33 | .50 |     | 1.00 |     |     |     |       |
| Derry.            | Conemaugh.     | .28          |     |     |   |     |      | .19  | .80  | T.   | .68  |      | .17  | .28  | .25  |     |      |      | T.  | .04  | .38 | .52  | .72  | .17  |     |     |     |     |      | .12 |     |     |       |
| Donora\|\|\| | Monongahela.   | T.           | .32 |     |   |     |      | .08  | 1.66 |      | .74  |      | .25  | .25  | .23  |     |      | .07  |     | .20  | .28 |      | .69  |      | .12 | .18 |     |     | .32  |     |     |     |       |
| Ebensburg         | Conemaugh.     | T.           | .20 |     |   |     |      | T.   | .80  |      | .15  |      | .60  | .35  | .40  | .05 |      | .12  |     | 1.51 | .02 | .80  | .40  | 1.30 | .13 | .05 | .32 |     |      | .05 |     |     |       |
| Elk Lick          | Youghiogheny   |              |     |     |   |     |      | *    |      | .22  |      |      | .52  | 1.05 |      |     |      |      |     | .16  |     | .88  | .78  | .58  |     |     |     |     |      | .45 |     |     |       |
| Falls Creek.      | Allegheny      | .25          |     |     |   |     |      | .05  | .44  |      | .50  | .26  |      | .92  | .42  |     |      | .93  |     | .26  | .16 |      |      | 1.03 | .10 | .50 |     |     | 1.05 |     |     |     |       |
| Franklin\|\|\| | Allegheny      | .12          |     |     |   |     |      | .17  | 1.45 |      | .30  |      | .09  | .55  | .09  | .04 |      | 1.60 |     | .95  |     | .13  |      | .44  | .18 | .08 |     |     |      | .40 |     |     |       |
| Freeport\|\|\| | do.            | .24          |     |     |   |     |      | .04  | 2.02 | .01  | .49  | .01  | .20  | .14  | .50  | T.  |      | .10  |     | .24  |     | .23  |      | .47  | .17 | .18 | .13 |     |      | .17 |     |     |       |
| Greensboro.       | Monongahela.   |              | .22 |     |   |     |      | .13  | 1.36 |      | .99  | .06  | .14  | .41  | .98  | .03 |      | .02  | .02 |      | T.  | .52  |      | .91  | .05 | .25 |     |     |      | .10 |     |     |       |
| Greensburg.       | Youghiogheny   | .15          |     |     |   |     |      | .09  | 1.89 | T.   | .63  | T.   | .22  | .30  | .09  |     |      | .05  |     | .05  | .24 | .28  | .50  | .39  |     | .18 | .10 |     |      | .12 |     |     |       |
| Greenville.       | Beaver         | .10          |     |     |   |     |      | .03  | 1.26 | .05  | T.   | .12  | .34  |      |      |     | .40  |      | .80 | .23  | T.  | .04  | 1.18 |      | .15 |     |     |     | .08  |     |     |     |       |
| Grove City        | do.            | .08          |     |     |   |     |      | .19  | .95  | T.   | .04  | .22  | .47  | .35  | .07  |     | .41  |      | .38 | .04  | .05 |      | .45  | .20  | .15 |     |     |     | .02  |     |     |     |       |
| Herrs Isl. Dam\|\|\| | Ohio           |              | .09 |     |   |     |      | .13  | 1.46 |      | .10  | .12  | .04  | 1.05 | .38  |     |      | .08  | T.  | .25  |     | .17  |      | .32  | .09 | .21 | .08 |     |      | .90 |     |     |       |
| Ingram.           | Ohio           | .10          |     |     |   |     |      | .90  | 1.25 | .01  | .11  | .21  | .14  | 1.40 | .21  |     | .09  |      | .57 | .08  | .10 | .12  | .30  |      | .26 |     |     |     | .79  |     |     |     |       |
| Irvin.            | Youghiogheny   | .09          |     |     |   |     |      | .01  | 1.76 | .02  | .27  | .10  | .27  | .29  | .08  |     | .05  |      | .08 | .02  | .30 | .06  | .09  | .02  | .20 | .04 |     |     |      | .32 |     |     |       |
| Johnstown.        | Conemaugh.     | .36          |     |     |   |     |      | .12  | .43  |      | .10  | .03  | .60  | .55  | .18  |     | .12  |      | T.  | 1.07 | .40 | .16  | .80  | .88  | T.  | .19 | .05 |     |      | .06 |     |     |       |
| Kregar\|\|\| | Youghiogheny   | .31          |     |     |   |     |      | .95  | .01  | .45  |      | .08  | .74  | .64  | .08  |     | .10  | .02  | T.  |      | .75 |      | .94  | .37  | .04 | .19 |     |     | .38  |     |     |     |       |
| Lake Lynn\|\|\| | Monongahela.   |              | .19 |     |   |     |      | .07  | 1.46 |      | 1.00 |      | .10  | .98  | 1.15 |     |      |      | .04 |      | .47 |      | .88  | .06  | .18 | .01 |     |     |      |     |     |     |       |
| Linesville\|\|\| | Beaver.        | .15          |     |     |   |     |      | .12  | 1.00 | .16  | .20  | .20  |      | .04  | .18  |     | .15  |      | .99 |      |     | 1.20 | .18  | .12  |     | .03 |     |     | .65  |     |     |     |       |
| Lock No. 2\|\|\| | Ohio           | .20          |     |     |   |     |      | .14  | 1.64 |      | .09  | T.   | .11  | .45  | .70  |     | .08  |      | .43 |      | .10 |      | .40  | .08  | .21 |     |     |     | .02  |     |     |     |       |
| Lock No. 4\|\|\| | Monongahela.   | T.           | .63 |     |   |     |      | .17  | 1.70 |      | .68  | T.   | .03  | .18  | .32  | T.  | .18  |      | .25 |      | .34 |      | .66  | .08  | .16 | .28 |     |     |      | .48 |     |     |       |
| Lycippus.         | Conemaugh.     |              | .38 |     |   |     |      | .97  | 1.03 |      | 1.02 |      | .66  | .33  | .13  |     | .11  |      | T.  |      | .65 | .65  | .43  |      | .12 | .24 |     |     | .26  |     |     |     |       |
| McKeesport\|\|\| | Monongahela    |              | .10 |     |   |     |      | .02  | 1.51 |      | .16  | T.   | .11  | .04  | .31  |     | *    |      | .13 |      | .14 |      | .15  | .23  | .06 | .03 |     |     | .14  |     |     |     |       |
| Meadville.        | Allegheny      | .22          |     |     |   |     |      | .25  | 1.00 | .03  | .08  | .06  | .05  | .28  |      | T.  | .70  |      | .51 | .23  |     | .08  | 1.00 |      | .12 |     |     |     | .48  |     |     |     |       |
| Mount Lebanon.    | Ohio           | .10          |     |     |   |     |      | .27  | 1.62 | .01  | .11  | .06  | .07  | .43  | .23  |     | .09  |      | .26 | .07  | .14 | .17  | .41  |      | .24 |     |     |     | .49  |     |     |     |       |
| Natrona\|\|\| | Allegheny      |              | .19 |     |   |     |      | .12  | 1.93 |      | .88  | .02  | .21  | .17  | .44  |     | .08  | T.   | .21 |      | .23 |      | .44  | .19  | .18 | .02 |     |     | .37  |     |     |     |       |
| New Castle\|\|\| | Beaver         |              | .14 |     |   |     |      | .12  | 1.70 |      | .13  | .04  | .19  | .30  | .78  | .01 | .39  |      | .18 |      | .10 |      | .44  | .09  | .12 | .01 |     |     | .18  |     |     |     |       |
| Newell.           | Monongahela.   | .16          |     |     |   |     | .11  | 1.90 |      | 1.20 | .11  | .14  |      | .52  | .02  |     | .15  |      | .24 |      | .45 |      | .72  | .02  | .13 | .31 | .20 |     |      | .39 |     |     |       |
| Parkers Landing\|\|\| | Allegheny      |              | .18 |     |   |     |      | .18  | 1.87 |      | .24  | T.   | .19  | .16  | .42  |     |      | .47  |     | .22  |     | .14  |      | .73  | .12 | .08 | .10 |     |      | .23 |     |     |       |
| Pennline\|\|\|†† | Beaver         |              | .15 |     |   |     |      | .08  | .18  |      | .09  | .04  | .21  | .27  |      |     | .60  |      | .33 |      | .13 |      | .66  | .20  | .16 |     |     |     | .63  |     |     |     |       |
| Pittsburgh***     | Ohio.          | .11          |     |     |   |     | .11  | 1.58 | .09  | .01  | .02  | .03  | 1.69 | .37  | .02  |     | .01  | .05  | T.  | .20  | .18 |      | .26  | .08  | .05 | .14 |     |     | .46  |     |     |     |       |
| Punxsutawney\|\|\| | Allegheny      |              | T.  |     |   |     |      |      | .72  |      | .13  | .83  | 1.00 |      |      |     |      | .31  |     |      |     | .57  | T.   |      |     |     |     |     |      |     |     |     |       |
| Ridgway.          | do.            |              | .27 |     |   |     |      | .49  | .47  |      | .81  |      | .29  | .06  | .44  | T.  | .48  |      | .08 | .11  | .18 |      | .62  | .33  | .07 |     | .30 |     | .06  |     |     |     |       |
| Saltsburg\|\|\| | Conemaugh.     |              | .02 |     |   |     |      |      | .91  |      | .67  | T.   | .27  | .16  | T.   |     | .05  | .04  |     | .26  |     | .41  | .21  | .11  | .05 |     |     |     | .32  |     |     |     |       |
| Sharon\|\|\| | Beaver.        |              |     |     |   |     |      | .03  | 1.43 |      | .07  | T.   | .08  | .33  | .05  |     | .51  |      | .60 |      | .11 |      | .78  | .12  | .12 |     |     | .07 | .26  |     |     |     |       |
| Somerset.         | Youghiogheny   |              | .18 |     |   |     |      | .05  | .70  |      | .10  | T.   | .56  | 1.29 | .16  |     | .12  |      | .08 | T.   | .58 | .55  | .59  | .07  | .06 | .10 |     |     | .16  |     |     |     |       |
| Springdale\|\|\| | Allegheny      |              | .54 |     |   |     |      | 1.1  | 1.51 |      | 1.03 | .02  | .20  | .24  | .34  |     | .04  | T.   | .26 |      | .20 |      | .48  | .15  | .13 | .31 |     |     | .50  |     |     |     |       |
| Uniontown.        | Monongahela.   | .15          | .03 |     |   |     |      | T.   | 1.32 |      | 1.13 | .12  | .05  | .97  | .10  |     | .02  |      |     | .03  | .42 | .85  | .34  | .02  | .23 |     |     |     | .37  |     |     |     |       |
| Unity Reservoir†† | Youghiogheny   | .25          |     |     |   |     |      | .09  | 1.77 | T.   | .65  |      | .22  | .35  | .10  |     | .08  |      | .03 | .08  | .45 | .34  | .57  |      | .15 | .24 |     |     | .14  |     |     |     |       |
| Vandersgrift.     | Conemaugh.     |              |     |     |   |     | 2.50 |      |      | .66  |      | .28  | .14  | .49  | .04  |     |      |      | .30 |      | .19 |      | .91  |      | .17 |     |     | .39 |      |     |     |     |       |
| Warren.           | Allegheny      | .15          | .07 |     |   |     |      | .03  | .33  |      | 1.10 |      | .20  | .20  | .17  |     |      | .54  |     | .35  | .20 |      | 1.03 |      | .51 |     |     | .10 | .15  |     |     |     |       |
| Westford\|\|\| | Beaver         | .04          |     |     |   |     | .10  | 1.56 |      | .35  |      | .28  | .32  |      |      |     | 1.56 |      | .48 |      | .19 |      | .85  | .07  | .12 |     |     | .52 |      |     |     |     |       |
| West Newton\|\|\| | Youghiogheny   | T.           | .44 |     |   |     |      | .04  | 1.56 |      | .79  |      | .08  | .14  | .30  |     | .29  |      | .12 | T.   | .29 |      | .74  |      | .15 | .14 | .15 |     | .16  |     |     |     |       |
| Zelienople.       | Ohio           | .03          | .42 | .34 |   |     |      |      |      |      | .43  | .51  | .32  |      |      |     | .48  | .56  |     |      | .02 |      |      |      |     |     |     |     |      | .16 |     |     |       |
| Lake Drainage.    |                |              |     |     |   |     |      |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |      |     |     |     |     |      |     |     |     |       |
| Erie***           | Lake Erie.     | .08          |     |     |   |     | T.   | .50  | .19  | .11  | .04  | .10  | .02  | .02  |      | T.  | .21  |      | T.  | T.   | .07 |      | .48  | .50  | .08 | .19 |     |     |      | .15 |     |     |       |
| Genesee.          | do             | .31          |     |     |   |     | T.   | .65  |      | .41  | .02  | 1.50 | .30  | .17  |      | T.  | .06  |      |     | .70  |     | .22  |      | 1.48 | .19 | .51 |     |     | .38  |     |     |     |       |
|                   |                |              |     |     |   |     |      |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |      |     |     |     |     |      |     |     |     |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | *Highest | Direction | Date |
| Erie.....         | 282.0                   | 451.8                    | 62                     | 68               | 68       | 69      | 8,642                    | 11.6                        | 38       |           | 19   |
| Harrisburg.....   | 278.8                   | 446.2                    | 62                     | 72               | 52       | 57      | 4,407                    | 5.9                         | 27       | s.        | 30   |
| Philadelphia..... | 249.0                   | 446.2                    | 56                     | 70               | 52       | 62      | 8,396                    | 11.3                        | 35       | sw.       | 16   |
| Pittsburgh.....   | 238.2                   | 449.9                    | 64                     | 73               | 54       | 60      | 6,421                    | 8.6                         | 33       | nw.       | 23   |
| Reading.....      | 257.2                   | 446.2                    | 58                     | 68               | 58       | 60      | 4,050                    | 5.6                         | 20       | sw.       | 22   |
| Scranton.....     | 242.4                   | 449.0                    | 54                     | 73               | 53       | 57      | 4,006                    | 5.4                         | 26       | sw.       | 20   |

\* For any five-minute period.

† By 3-cup anemometer.

## RIVER CONDITIONS

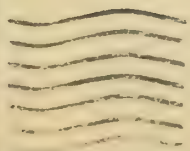
| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 4.6        | 5.7           | 14   | 3.4          | 7    | 18          |
| Phillipsburg..... | Delaware.....     | 4.6        | 6.4           | 15   | 3.0          | 6    | 22          |
| Mauch Chunk.....  | Lehigh.....       | 3.6        | 5.4           | 9    | 2.3          | 7    | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 8.3        | 14.2          | 27   | 5.0          | 7    | 20          |
| Williamsport..... | Susquehanna.....  | 6.9        | 12.5          | 24   | 3.4          | 7    | 20          |
| Harrisburg.....   | Susquehanna.....  | 6.7        | 9.6           | 25   | 4.8          | 7    | 17          |
| Greensboro.....   | Monongahela.....  | 14.7       | 22.0          | 23   | 11.6         | 7    | 30          |
| West Newton.....  | Youghiogheny..... | 3.3        | 8.6           | 14   | 1.4          | 7    | 20          |
| Lock No. 4.....   | Monongahela.....  | 16.9       | 22.7          | 24   | 13.9         | 8    | 31          |
| Pittsburgh.....   | Ohio.....         | 14.6       | 18.4          | 15   | 12.0         | 7    | 25          |
| Beaver Dam.....   | Ohio.....         | 12.3       | 18.4          | 5    | 8.8          | 7    | 30          |



Daily Temperatures for May, 1931

| Stations           | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |
|--------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum..  | 62 | 53 | 58 | 68 | 73 | 75 | 63 | 72 | 79 | 80 | 64 | 51 | 49 | 59 | 75 | 83 | 70 | 73 | 84 | 81 | 70 | 72 | 59 | 65 | 71 | 75 | 78 | 88 | 91 | 89 | 80   | 71.8 |      |
|                    | Minimum... | 30 | 35 | 43 | 34 | 36 | 40 | 44 | 58 | 48 | 51 | 56 | 49 | 47 | 45 | 41 | 51 | 58 | 40 | 49 | 58 | 63 | 48 | 55 | 43 | 46 | 53 | 43 | 49 | 58 | 63 | 65   | 48.4 |      |
| Altoona.....       | Maximum..  | 62 | 64 | 63 | 68 | 74 | 75 | 69 | 63 | 74 | 74 | 68 | 62 | 52 | 64 | 77 | 80 | 73 | 70 | 78 | 77 | 69 | 65 | 54 | 61 | 70 | 75 | 78 | 85 | 88 | 89 | 75   | 70.8 |      |
|                    | Minimum... | 25 | 43 | 41 | 29 | 36 | 40 | 55 | 49 | 40 | 50 | 45 | 40 | 47 | 46 | 42 | 60 | 55 | 40 | 60 | 55 | 52 | 38 | 39 | 35 | 47 | 48 | 40 | 47 | 56 | 61 | 59   | 45.8 |      |
| Beaver Dam.....    | Maximum..  | 65 | 57 | 53 | 71 | 77 | 79 | 79 | 74 | 71 | 64 | 63 | 58 | 57 | 66 | 77 | 81 | 80 | 85 | 84 | 80 | 72 | 66 | 55 | 62 | 69 | 72 | 84 | 87 | 84 | 84 | 83   | 72.2 |      |
|                    | Minimum... | 27 | 37 | 38 | 31 | 38 | 44 | 56 | 42 | 47 | 49 | 44 | 46 | 50 | 46 | 42 | 53 | 55 | 43 | 60 | 57 | 46 | 42 | 41 | 34 | 43 | 46 | 42 | 42 | 53 | 59 | 55   | 45.4 |      |
| Bellefonte.....    | Maximum..  | 63 | 56 | 56 | 72 | 75 | 74 | 65 | 63 | 75 | 74 | 66 | 56 | 52 | 64 | 78 | 80 | 67 | 69 | 78 | 80 | 71 | 67 | 49 | 62 | 69 | 74 | 80 | 89 | 87 | 83 | 73   | 69.9 |      |
|                    | Minimum... | 23 | 46 | 36 | 28 | 35 | 40 | 57 | 42 | 40 | 53 | 46 | 43 | 48 | 46 | 42 | 56 | 45 | 35 | 60 | 62 | 51 | 42 | 41 | 39 | 49 | 46 | 40 | 48 | 54 | 58 | 58   | 45.5 |      |
| Brookville.....    | Maximum..  | 56 | 65 | 67 | 53 | 73 | 81 | 81 | 75 | 58 | 73 | 69 | 62 | 64 | 52 | 65 | 77 | 81 | 71 | 82 | 84 | 78 | 67 | 66 | 46 | 62 | 69 | 71 | 81 | 87 | 88 | 89   | 70.7 |      |
|                    | Minimum... | 19 | 20 | 29 | 28 | 24 | 29 | 31 | 56 | 33 | 35 | 37 | 36 | 36 | 46 | 37 | 33 | 46 | 33 | 34 | 56 | 51 | 37 | 39 | 35 | 33 | 41 | 34 | 32 | 40 | 46 | 54   | 36.8 |      |
| Butler.....        | Maximum..  | 69 | 70 | 56 | 70 | 82 | 82 | 77 | 62 | 72 | 68 | 65 | 63 | 61 | 70 | 77 | 83 | 87 | 88 | 84 | 78 | 69 | 63 | 61 | 69 | 68 | 78 | 84 | 89 | 87 | 90 | 86   | 74.5 |      |
|                    | Minimum... | 22 | 32 | 38 | 24 | 32 | 40 | 56 | 41 | 42 | 44 | 42 | 40 | 48 | 45 | 41 | 56 | 42 | 55 | 61 | 64 | 46 | 38 | 36 | 34 | 40 | 42 | 36 | 45 | 45 | 55 | 50   | 43.0 |      |
| Carlisle.....      | Maximum..  | 64 | 64 | 66 | 74 | 74 | 72 | 70 | 72 | 80 | 79 | 74 | 70 | 52 | 65 | 81 | 87 | 85 | 72 | 78 | 82 | 79 | 76 | 68 | 67 | 72 | 81 | 85 | 93 | 91 | 85 | 75.8 |      |      |
|                    | Minimum... | 30 | 46 | 51 | 30 | 32 | 40 | 58 | 59 | 46 | 60 | 52 | 48 | 47 | 47 | 55 | 60 | 42 | 60 | 61 | 59 | 48 | 46 | 42 | 58 | 56 | 41 | 46 | 54 | 59 | 65 | 50.3 |      |      |
| Catawissa.....     | Maximum..  | 67 | 60 | 62 | 76 | 79 | 79 | 69 | 67 | 72 | 84 | 82 | 79 | 62 | 58 | 74 | 81 | 85 | 80 | 75 | 84 | 80 | 81 | 74 | 69 | 75 | 81 | 84 | 93 | 95 | 91 | 84   | 77.4 |      |
|                    | Minimum... | 27 | 45 | 44 | 30 | 35 | 39 | 59 | 57 | 46 | 62 | 53 | 50 | 49 | 47 | 43 | 52 | 53 | 37 | 61 | 65 | 58 | 45 | 41 | 42 | 49 | 48 | 41 | 46 | 54 | 58 | 59   | 48.2 |      |
| Chambersburg.....  | Maximum..  | 67 | 69 | 65 | 75 | 77 | 76 | 73 | 73 | 81 | 79 | 73 | 69 | 55 | 69 | 82 | 87 | 78 | 73 | 78 | 83 | 80 | 74 | 66 | 68 | 81 | 82 | 84 | 90 | 92 | 93 | 82   | 76.6 |      |
|                    | Minimum... | 35 | 48 | 44 | 32 | 36 | 40 | 58 | 57 | 47 | 59 | 53 | 48 | 48 | 47 | 44 | 63 | 56 | 45 | 48 | 61 | 58 | 48 | 46 | 40 | 51 | 54 | 46 | 48 | 51 | 60 | 63   | 49.6 |      |
| Chambersville..... | Maximum..  | 68 | 70 | 56 | 74 | 81 | 81 | 76 | 69 | 77 | 70 | 68 | 62 | 64 | 69 | 77 | 80 | 76 | 85 | 84 | 80 | 69 | 68 | 54 | 64 | 70 | 73 | 83 | 87 | 87 | 86 | 89   | 73.8 |      |
|                    | Minimum... | 19 | 38 | 38 | 23 | 33 | 36 | 56 | 48 | 35 | 47 | 42 | 36 | 47 | 36 | 58 | 58 | 49 | 42 | 62 | 57 | 51 | 35 | 38 | 33 | 48 | 42 | 34 | 43 | 48 | 54 | 56   | 42.9 |      |
| Claysville.....    | Maximum..  | 71 | 70 | 59 | 72 | 83 | 83 | 79 | 65 | 73 | 72 | 66 | 65 | 57 | 69 | 78 | 81 | 79 | 91 | 87 | 82 | 71 | 70 | 49 | 64 | 68 | 76 | 87 | 91 | 90 | 89 | 83   | 74.8 |      |
|                    | Minimum... | 27 | 47 | 39 | 28 | 41 | 53 | 57 | 44 | 48 | 47 | 45 | 42 | 48 | 45 | 39 | 56 | 55 | 42 | 62 | 62 | 46 | 38 | 38 | 32 | 47 | 48 | 40 | 54 | 54 | 59 | 56   | 46.4 |      |
| Clearfield.....    | Maximum..  | 71 | 67 | 60 | 75 | 83 | 80 | 75 | 66 | 77 | 74 | 69 | 60 | 54 | 40 | 47 | 42 | 58 | 41 | 48 | 36 | 56 | 48 | 50 | 36 | 40 | 35 | 43 | 44 | 35 | 43 | 62   | 48   | 42.3 |
|                    | Minimum... | 22 | 30 | 40 | 29 | 25 | 34 | 55 | 48 | 35 | 49 | 43 | 40 | 47 | 43 | 42 | 50 | 43 | 38 | 83 | 78 | 75 | 63 | 66 | 70 | 78 | 80 | 86 | 90 | 81 | 84 | 72.5 |      |      |
| Coatesville.....   | Maximum..  | 63 | 55 | 63 | 70 | 71 | 75 | 65 | 78 | 80 | 80 | 63 | 55 | 50 | 62 | 78 | 83 | 71 | 73 | 83 | 80 | 73 | 75 | 63 | 66 | 70 | 78 | 80 | 86 | 90 | 83 | 63   | 50.7 |      |
|                    | Minimum... | 34 | 45 | 46 | 36 | 35 | 43 | 56 | 54 | 50 | 59 | 52 | 48 | 47 | 46 | 49 | 56 | 58 | 43 | 57 | 63 | 61 | 53 | 45 | 43 | 52 | 57 | 50 | 49 | 58 | 68 | 70   | 70.6 |      |
| Corry.....         | Maximum..  | 65 | 66 | 49 | 68 | 81 | 82 | 74 | 63 | 72 | 70 | 66 | 63 | 58 | 68 | 69 | 74 | 80 | 64 | 85 | 82 | 74 | 64 | 58 | 44 | 60 | 70 | 71 | 84 | 87 | 89 | 88   | 70   | 63   |
|                    | Minimum... | 24 | 34 | 35 | 27 | 39 | 47 | 57 | 44 | 38 | 48 | 45 | 40 | 48 | 41 | 40 | 50 | 42 | 38 | 61 | 59 | 44 | 35 | 34 | 36 | 45 | 42 | 32 | 45 | 59 | 57 | 50   | 43.1 |      |
| Emporium.....      | Maximum..  | 62 | 62 | 52 | 70 | 78 | 77 | 70 | 62 | 75 | 72 | 63 | 62 | 55 | 68 | 77 | 82 | 75 | 75 | 82 | 80 | 75 | 67 | 55 | 61 | 69 | 71 | 79 | 86 | 86 | 85 | 68   | 71.0 |      |
|                    | Minimum... | 22 | 31 | 40 | 26 | 30 | 32 | 61 | 49 | 36 | 54 | 40 | 45 | 50 | 56 | 38 | 49 | 52 | 33 | 58 | 55 | 54 | 38 | 42 | 40 | 46 | 44 | 35 | 42 | 53 | 56 | 58   | 43.8 |      |
| Erie.....          | Maximum..  | 54 | 65 | 47 | 56 | 76 | 79 | 66 | 54 | 69 | 61 | 59 | 55 | 56 | 60 | 72 | 80 | 56 | 86 | 83 | 74 | 57 | 51 | 49 | 55 | 61 | 65 | 74 | 85 | 84 | 78 | 63   | 65.5 |      |
|                    | Minimum... | 33 | 43 | 38 | 36 | 52 | 56 | 48 | 45 | 47 | 54 | 50 | 48 | 45 | 47 | 51 | 52 | 47 | 48 | 67 | 56 | 48 | 41 | 39 | 42 | 50 | 44 | 49 | 61 | 67 | 62 | 54   | 49.0 |      |
| Franklin.....      | Maximum..  | 68 | 67 | 68 | 74 | 82 | 81 | 77 | 65 | 71 | 68 | 63 | 68 | 59 | 68 | 78 | 82 | 70 | 86 | 82 | 75 | 68 | 61 | 51 | 65 | 70 | 75 | 86 | 88 | 89 | 87 | 74   | 69.6 |      |
|                    | Minimum... | 30 | 32 | 36 | 34 | 32 | 39 | 58 | 50 | 45 | 50 | 48 | 47 | 49 | 48 | 44 | 54 | 55 | 44 | 50 | 63 | 51 | 42 | 40 | 51 | 46 | 42 | 44 | 51 | 58 | 56 | 46   | 42.4 |      |
| Freeland.....      | Maximum..  | 61 | 54 | 51 | 70 | 74 | 74 | 65 | 67 | 77 | 76 | 68 | 53 | 47 | 58 | 71 | 80 | 73 | 70 | 77 | 78 | 71 | 71 | 62 | 60 | 65 | 70 | 78 | 86 | 89 | 87 | 74   | 69.6 |      |
|                    | Minimum... | 28 | 37 | 38 | 33 | 44 | 43 | 51 | 53 | 48 | 57 | 50 | 45 | 42 | 41 | 46 | 56 | 45 | 40 | 52 | 60 | 53 | 44 | 38 | 32 | 44 | 50 | 48 | 58 | 65 | 65 | 60   | 47.1 |      |
| Geneseo.....       | Maximum..  | 61 | 61 | 50 | 70 | 80 | 78 | 74 | 61 | 74 | 71 | 65 | 60 | 57 | 60 | 71 | 80 | 70 | 75 | 81 | 79 | 75 | 69 | 58 | 56 | 65 | 70 | 78 | 86 | 87 | 82 | 72   | 70.2 |      |
|                    | Minimum... | 20 | 40 | 35 | 24 | 29 | 30 | 56 | 49 | 31 | 49 | 57 | 50 | 46 | 47 | 34 | 52 | 41 | 32 | 60 | 60 | 50 | 36 | 33 | 36 | 40 | 30 | 40 | 46 | 54 | 53 | 41   | 48.8 |      |
| Gettysburg.....    | Maximum..  | 65 | 62 | 65 | 69 | 74 | 76 | 72 | 72 | 81 | 78 | 73 | 64 | 53 | 65 | 80 | 85 | 80 | 73 | 81 | 80 | 77 | 71 | 68 | 67 | 73 | 79 | 81 | 87 | 91 | 92 | 86   | 74.8 |      |
|                    | Minimum... | 38 | 47 | 45 | 35 | 36 | 41 | 58 | 58 | 49 | 60 | 43 | 52 | 48 | 48 | 45 | 61 | 59 | 47 | 61 | 64 | 59 | 48 | 47 | 41 | 52 | 57 | 50 | 49 | 57 | 62 | 64   | 51.3 |      |
| Greensburg.....    | Maximum..  | 68 | 77 | 59 | 74 | 80 | 83 | 76 | 67 | 74 | 69 | 68 | 63 | 55 | 68 | 77 | 80 | 75 | 88 | 82 | 80 | 69 | 69 | 52 | 64 | 66 | 74 | 84 | 89 | 87 | 86 | 81   | 73.7 |      |
|                    | Minimum... | 30 | 50 | 41 | 32 | 45 | 50 | 58 | 47 | 46 | 50 | 49 | 44 | 49 | 44 | 43 | 55 | 52 | 48 | 63 | 63 | 52 | 43 | 40 | 34 | 47 | 51 | 67 | 54 | 54 | 62 | 58   | 49.2 |      |
| Grove City.....    | Maximum..  | 63 | 69 | 63 | 70 | 80 | 78 | 78 | 66 | 69 | 68 | 63 | 63 | 74 | 70 | 76 | 79 | 83 | 83 | 83 | 74 | 69 | 75 | 68 | 61 | 70 | 68 | 78 | 85 | 86 | 82 | 73.3 |      |      |
|                    | Minimum... | 34 | 34 | 35 | 40 | 47 | 52 | 53 | 44 | 57 | 55 | 45 | 47 | 48 | 47 | 45 | 63 | 61 | 60 | 61 | 48 | 46 | 40 | 32 | 39 | 54 | 38 | 39 | 49 | 54 | 59 | 52   | 47.4 |      |
| Hamburg.....       | Maximum..  | 61 | 61 | 60 | 67 | 73 | 79 | 80 | 79 | 79 | 80 | 76 | 65 | 52 | 66 | 78 | 85 | 78 | 73 | 83 | 81 | 77 | 76 | 71 | 70 | 70 | 76 | 80 | 89 | 90 | 86 | 75.2 |      |      |
|                    | Minimum... | 28 | 38 | 45 | 32 | 32 | 40 | 40 | 56 | 46 | 54 | 55 | 47 | 47 | 46 | 45 | 45 | 35 | 56 | 60 | 60 | 48 | 41 | 43 | 44 | 41 | 45 | 50 | 52 | 57 | 58 | 46.3 |      |      |
| Harrisburg.....    | Maximum..  | 62 | 53 | 61 | 67 | 73 | 74 | 66 | 70 | 78 | 78 | 69 | 57 | 52 | 62 | 81 | 83 | 73 | 70 | 79 | 81 | 74 | 72 | 59 | 65 | 71 | 75 | 80 | 87 | 91 | 90 | 79   | 72.0 |      |
|                    | Minimum... | 37 | 45 | 47 | 40 | 43 | 46 | 58 | 59 | 51 | 62 | 57 | 50 | 48 | 47 | 50 | 63 | 52 | 45 | 59 | 67 | 60 | 55 | 46 | 43 | 53 | 56 | 49 | 54 | 61 | 64 | 63   | 52.6 |      |
| Hawley.....        | Maximum..  | 62 | 62 | 49 | 72 | 81 | 78 | 75 | 73 | 79 | 80 | 75 | 62 | 53 | 51 | 69 | 82 | 71 | 78 | 85 | 82 | 76 | 73 | 69 | 50 | 65 | 75 | 81 | 92 | 91 | 90 | 77   | 72.8 |      |
|                    | Minimum... | 22 | 31 | 43 | 26 | 32 | 31 | 54 | 57 | 43 | 54 | 47 | 49 | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

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32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

Vol. XXXVI.

JUNE, 1931.

No. 6

## GENERAL SUMMARY.

June did not depart greatly from the normal in either temperature or precipitation, and the extremes were not unusual. The slight excess in temperature seemed to accumulate gradually through the month instead of piling up during a hot week as sometimes happens. The rainfall averaged about a half inch below the June normal, the deficiency being chiefly in the central counties where the rainfall in May was heavy. The distribution of rainfall was favorable for agriculture, and the weather for the month was generally good for field work. The cutting of alfalfa began about the middle of the month, and a good crop of hay was cured and gathered with small losses. Wheat and rye ripened rapidly during the last week, and harvest was beginning in the southern tier of counties at the close of the month. Both rye and wheat developed heavy straw and large heads, and gave evidence in many places of bumper crops. Corn seemed to be a little backward early in the month, but it began a more rapid growth during the third week, and was generally reported good at the end of the month. Pastures were also backward in some sections early in the month, but improved considerably. Potatoes were good in nearly all parts of the State. Aphids did considerable damage in some places, but the crop as a whole was unusually promising. Tobacco was transplanted to the fields under good conditions of weather and soil, and was making a good showing. Truck crops were mostly good. Orchard fruits as a whole were the most promising of any crop in recent years. Cherries were especially good. There were numerous complaints that apples were falling from the trees, but there was no evidence that this condition was worse than in average seasons. Pears and peaches were generally good. Severe local storms were so numerous on the 6th and 7th as to cover nearly the whole State. Much damage was done by winds which uprooted thousands of large trees and unroofed many buildings. Some stock was killed by lightning and a few barns were burned. Hail did much damage in a few localities, and fields were badly washed in some sections by the excessive rains. The storms seemed to be most destructive in the central and northeastern counties. In some places the damage bore many indications of tornadoes, but no funnel clouds were reported. There seems to have been no loss of human life.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 90 stations, was 68.5°, which is 0.6° warmer than the June normal. The highest mean 74.6° was recorded at Marcus Hook, and the lowest, 61.6°, was reported from Ridgway. The highest temperature for the month was 102°, recorded at Hyndman on the 20th, and at Catawissa and Lewisburg on the 30th. The lowest for the month was 28°, at Ridgway on the 2d. The greatest daily range of temperature was 53° at Catawissa on the 20th.

## PRECIPITATION.

The average precipitation for the State as shown by the reports of 144 stations, was 3.71 inches, which is a deficiency of 0.47 inch as compared with the June normal. The greatest monthly amount was 8.08 inches at Natrona, while the least was 1.23 inches at Greenville. The greatest amount recorded in any 24 consecutive hours was 3.35 inches at Warren on the 6-7th.

## COMPARATIVE DATA FOR JUNE

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 68.4        | 100     | 30     | 3.04          | 6.90     | 1.08  | .....       | .....         | .....  | 9                      |
| 1889.....                | 66.7        | 95      | 33     | 5.43          | 10.04    | 2.71  | .....       | .....         | .....  | 15                     |
| 1890.....                | 70.1        | 97      | 33     | 3.42          | 5.74     | 1.30  | 12          | 11            | 7      | 9                      |
| 1891.....                | 68.2        | 100     | 30     | 4.50          | 9.30     | 1.22  | 14          | 8             | 11     | 11                     |
| 1892.....                | 71.8        | 99      | 40     | 5.64          | 10.55    | 1.83  | 9           | 11            | 10     | 13                     |
| 1893.....                | 69.8        | 100     | 38     | 3.12          | 6.50     | 1.20  | 10          | 11            | 9      | 9                      |
| 1894.....                | 69.6        | 102     | 30     | 2.57          | 5.31     | 0.61  | 13          | 12            | 5      | 10                     |
| 1895.....                | 71.4        | 104     | 32     | 3.50          | 9.21     | 0.69  | 13          | 10            | 7      | 9                      |
| 1896.....                | 67.4        | 98      | 32     | 4.64          | 9.11     | 1.89  | 10          | 11            | 9      | 11                     |
| 1897.....                | 64.8        | 96      | 28     | 3.38          | 6.42     | 1.11  | 11          | 11            | 8      | 11                     |
| 1898.....                | 69.6        | 100     | 33     | 2.79          | 6.96     | 0.56  | 14          | 11            | 5      | 9                      |
| 1899.....                | 69.9        | 101     | 32     | 3.51          | 5.97     | 0.65  | 13          | 11            | 6      | 9                      |
| 1900.....                | 69.9        | 97      | 35     | 3.60          | 10.29    | 1.35  | 11          | 12            | 7      | 10                     |
| 1901.....                | 69.1        | 103     | 32     | 3.47          | 7.61     | 0.88  | 12          | 11            | 7      | 10                     |
| 1902.....                | 66.0        | 97      | 32     | 5.97          | 8.93     | 3.35  | 11          | 12            | 7      | 13                     |
| 1903.....                | 63.5        | 90      | 34     | 6.53          | 11.76    | 3.74  | 7           | 10            | 13     | 15                     |
| 1904.....                | 67.9        | 96      | 32     | 4.06          | 6.67     | 1.62  | 12          | 10            | 8      | 13                     |
| 1905.....                | 68.0        | 99      | 30     | 4.39          | 8.35     | 1.77  | 11          | 10            | 9      | 13                     |
| 1906.....                | 69.3        | 97      | 28     | 5.43          | 10.29    | 1.40  | 11          | 12            | 7      | 13                     |
| 1907.....                | 63.6        | 98      | 30     | 4.99          | 8.55     | 2.79  | 11          | 9             | 10     | 12                     |
| 1908.....                | 68.8        | 102     | 28     | 2.36          | 4.61     | 0.58  | 19          | 9             | 2      | 7                      |
| 1909.....                | 68.8        | 96      | 34     | 4.48          | 8.96     | 1.89  | 12          | 9             | 9      | 13                     |
| 1910.....                | 65.4        | 95      | 32     | 4.81          | 8.68     | 1.33  | 12          | 8             | 10     | 11                     |
| 1911.....                | 68.3        | 99      | 38     | 4.71          | 10.11    | 2.13  | 12          | 10            | 8      | 12                     |
| 1912.....                | 65.6        | 96      | 29     | 3.36          | 8.58     | 0.79  | 13          | 9             | 8      | 8                      |
| 1913.....                | 68.2        | 99      | 20     | 2.26          | 7.61     | 0.66  | 19          | 7             | 4      | 7                      |
| 1914.....                | 68.6        | 101     | 25     | 3.71          | 7.05     | 1.17  | 16          | 8             | 6      | 9                      |
| 1915.....                | 69.6        | 89      | 48     | 3.30          | 8.04     | 0.74  | 8           | 14            | 8      | 11                     |
| 1916.....                | 63.7        | 89      | 28     | 6.14          | 12.45    | 2.83  | 11          | 10            | 9      | 15                     |
| 1917.....                | 66.8        | 92      | 32     | 5.38          | 9.85     | 2.25  | 12          | 11            | 7      | 14                     |
| 1918.....                | 66.0        | 98      | 29     | 3.42          | 2.65     | 0.44  | 13          | 11            | 6      | 10                     |
| 1919.....                | 71.2        | 102     | 32     | 3.90          | 9.17     | 1.74  | 16          | 9             | 5      | 10                     |
| 1920.....                | 67.0        | 99      | 32     | 4.97          | 8.37     | 2.25  | 12          | 11            | 7      | 13                     |
| 1921.....                | 70.6        | 101     | 26     | 3.12          | 9.86     | 0.70  | 17          | 9             | 4      | 8                      |
| 1922.....                | 69.5        | 96      | 30     | 5.11          | 12.46    | 1.78  | 11          | 11            | 8      | 13                     |
| 1923.....                | 70.9        | 103     | 32     | 2.73          | 7.99     | 0.41  | 16          | 9             | 5      | 9                      |
| 1924.....                | 65.8        | 98      | 26     | 5.57          | 9.75     | 2.23  | 11          | 11            | 8      | 15                     |
| 1925.....                | 71.9        | 104     | 29     | 3.04          | 7.02     | 0.62  | 16          | 11            | 3      | 9                      |
| 1926.....                | 64.1        | 94      | 23     | 3.63          | 6.56     | 1.20  | 13          | 10            | 7      | 12                     |
| 1927.....                | 63.8        | 99      | 25     | 3.72          | 6.78     | 1.59  | 15          | 8             | 7      | 9                      |
| 1928.....                | 65.5        | 93      | 30     | 7.96          | 13.14    | 3.96  | 9           | 9             | 12     | 17                     |
| 1929.....                | 67.8        | 98      | 28     | 3.56          | 6.77     | 1.10  | 15          | 10            | 5      | 10                     |
| 1930.....                | 69.1        | 100     | 22     | 4.20          | 13.02    | 1.56  | 17          | 8             | 5      | 9                      |
| 1931.....                | 68.5        | 102     | 28     | 3.71          | 8.08     | 1.23  | 16          | 8             | 6      | 9                      |
| Normal and Extremes..... | 67.9        | 104     | 20     | 4.18          | 13.14    | 0.41  | 13          | 10            | 7      | 11                     |



## Climatological Data for June, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 19                      | 68.3                         | .....                     | 97      | 20   | 47     | 3    | 36                       | 5.81  | +2.36                     | 2.73                 | 0                         | 11                           | 22    | 0          | 8                            | ne.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 67.4                         | +1.1                      | 95      | 20   | 40     | 2    | 36                       | 3.88  | +0.03                     | 1.18                 | 0                         | 9                            | 24    | 6          | 0                            | w.        | F. E. Rooney.               |
| Arendtsville       | Adams        | 700             | 9                       | 71.6                         | .....                     | 101     | 30   | 45     | 2    | 42                       | 2.71  | .....                     | 0.80                 | 0                         | 8                            | 17    | 7          | 6                            | n.        | Dr. S. W. Frost.            |
| Bellefonte         | Center       | 1,050           | 23                      | 66.0                         | -2.7                      | 94      | 20   | 38     | 2    | 42                       | 1.78  | -3.10                     | 0.83                 | 0                         | 7                            | 8     | 10         | 12                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 72.2                         | +2.0                      | 97      | 20   | 54     | 3    | 34                       | 5.15  | +1.11                     | 2.16                 | 0                         | 9                            | 17    | 1          | 12                           | nw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 70.8                         | -0.2                      | 100     | 20   | 44     | 2    | 42                       | 3.56  | -0.52                     | 1.38                 | 0                         | 8                            | 18    | 5          | 7                            | s.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 69.6                         | +1.4                      | 102     | 30   | 43     | 2    | 53                       | 1.50  | -2.47                     | 0.69                 | 0                         | 5                            | 20    | 5          | 5                            | .....     | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 64.7                         | -1.3                      | 97      | 30   | 40     | 2    | 43                       | 2.24  | -2.18                     | 0.66                 | 0                         | 7                            | 20    | 2          | 8                            | .....     | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 71.8                         | +2.4                      | 101     | 20   | 43     | 2    | 40                       | 2.93  | -1.18                     | 1.19                 | 0                         | 10                           | 14    | 12         | 4                            | sw.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 69.9                         | +3.0                      | 98      | 20   | 35     | 2    | 46                       | 3.51  | -1.45                     | 1.70                 | 0                         | 6                            | 15    | 9          | 6                            | sw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 70.3                         | +0.3                      | 97      | 20   | 48     | 2    | 33                       | 2.99  | -1.08                     | 1.33                 | 0                         | 9                            | 19    | 4          | 7                            | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 67.2                         | -0.5                      | 94      | 20   | 43     | 2    | 35                       | 3.83  | -0.39                     | 1.40                 | 0                         | 7                            | 21    | 2          | 7                            | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 65.7                         | -0.1                      | 92      | 20   | 37     | 2    | 37                       | 3.44  | -1.10                     | 2.29                 | 0                         | 5                            | 13    | 12         | 5                            | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 69.6                         | +1.1                      | 95      | 20   | 45     | 2    | 34                       | 5.60  | +1.25                     | 1.85                 | 0                         | 7                            | 19    | 4          | 7                            | s.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 65.8                         | +1.2                      | 92      | 20   | 46     | 2    | 27                       | 2.64  | -1.90                     | 1.28                 | 0                         | 11                           | 11    | 11         | 8                            | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 71.2                         | +2.6                      | 97      | 20   | 50     | 3    | 34                       | 6.39  | +3.02                     | 2.02                 | 0                         | 13                           | 16    | 8          | 8                            | sw.       | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 58                      | 70.7                         | +0.8                      | 97      | 20   | 45     | 2    | 35                       | 3.11  | -0.80                     | 1.09                 | 0                         | 10                           | 16    | 6          | 8                            | n.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 27                      | 67.3                         | +1.7                      | 95      | 20   | 37     | 2    | 43                       | 2.70  | -1.84                     | 1.35                 | 0                         | 9                            | 17    | 7          | 6                            | w.        | Capt. J. G. Johnson         |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 62.1                         | .....                     | 85      | 20   | 39     | 3    | 38                       | 2.94  | -2.05                     | 1.12                 | 0                         | 9                            | 21    | 3          | 8                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      | 69.0                         | 0.0                       | 95      | 20   | 44     | 4    | 42                       | 4.24  | +0.03                     | 2.25                 | 0                         | 8                            | 17    | 10         | 3                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 71.9                         | +1.0                      | 98      | 20   | 45     | 2    | 33                       | 3.63  | -0.36                     | 1.12                 | 0                         | 9                            | 18    | 7          | 5                            | n.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 71.0                         | +0.7                      | 98      | 20   | 52     | 2    | 32                       | 3.28  | -0.31                     | 2.07                 | 0                         | 8                            | 11    | 11         | 8                            | ne.       | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 13                      | 66.5                         | +0.2                      | 95      | 20   | 39     | 3    | 47                       | 2.40  | -1.65                     | 0.98                 | 0                         | 10                           | 18    | 5          | 7                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 74.2                         | +2.6                      | 100     | 21   | 56     | 2    | 27                       | 2.12  | -1.22                     | 0.71                 | 0                         | 9                            | 17    | 10         | 3                            | .....     | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 69.8                         | +1.5                      | 100     | 20   | 37     | 2    | 42                       | 2.75  | -1.51                     | 0.93                 | 0                         | 8                            | 16    | 9          | 5                            | w.        | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 70.8                         | +3.4                      | 102     | 20   | 40     | 2    | 49                       | 1.60  | -3.24                     | 0.64                 | 0                         | 7                            | 13    | 7          | 10                           | .....     | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 68.1                         | -1.9                      | 98      | 20   | 42     | 2    | 40                       | 3.25  | -0.72                     | 1.37                 | 0                         | 7                            | 24    | 2          | 4                            | n.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 65.7                         | +0.1                      | 97      | 20   | 36     | 2    | 44                       | 3.35  | -0.61                     | 1.28                 | 0                         | 8                            | 16    | 10         | 4                            | .....     | C. B. Benzing.              |
| Lebanon            | Lebanon      | 469             | 47                      | 69.5                         | -0.1                      | 97      | 20   | 43     | 2    | 35                       | 5.61  | +1.46                     | 1.93                 | 0                         | 9                            | 15    | 7          | 8                            | ne.       | Prof. W. G. Owens.          |
| Lewisburg          | Union        | 450             | 55                      | 70.6                         | -1.6                      | 102     | 30   | 44     | 2    | 46                       | 2.38  | -1.83                     | 1.67                 | 0                         | 6                            | 17    | 2          | 11                           | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 71.0                         | +1.5                      | 101     | 30   | 41     | 2    | 44                       | 1.33  | -3.02                     | 0.40                 | 0                         | 7                            | 15    | 10         | 5                            | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 68.8                         | +1.3                      | 99      | 20   | 37     | 2    | 47                       | 1.39  | -3.42                     | 0.67                 | 0                         | 10                           | 20    | 8          | 4                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 74.6                         | .....                     | 99      | 20   | 54     | 2    | 30                       | 3.63  | .....                     | 1.21                 | 0                         | 6                            | 16    | 9          | 5                            | nw.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 72.2                         | +4.4                      | 99      | 20   | 41     | 3    | 42                       | 2.22  | -2.20                     | 1.51                 | 0                         | 7                            | 20    | 8          | 7                            | sw.       | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 27                      | 70.3                         | +1.9                      | 99      | 20   | 40     | 2    | 43                       | 2.46  | -1.97                     | 0.79                 | 0                         | 5                            | 18    | 4          | 8                            | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 63.6                         | +0.4                      | 88      | 20   | 38     | 2    | 35                       | 3.86  | -0.22                     | 1.10                 | 0                         | 6                            | 17    | 6          | 7                            | sw.       | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 61.9                         | +0.2                      | 86      | 30   | 40     | 6    | 39                       | 4.25  | -1.00                     | 1.43                 | 0                         | 11                           | 20    | 3          | 7                            | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 65.6                         | +0.4                      | 95      | 19   | 38     | 2    | 44                       | 1.35  | -3.58                     | 0.51                 | 0                         | 6                            | 19    | 4          | 7                            | w.        | H. O. Hacker.               |
| Narberth           | Montgomery   | 300             | 12                      | 68.3                         | -1.8                      | 94      | 20   | 50     | 3    | 31                       | 4.24  | +0.26                     | 1.24                 | 0                         | 9                            | 17    | 4          | 9                            | nw.       | Charles Decker.             |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 69.0                         | -0.6                      | 96      | 20   | 50     | 3    | 34                       | 4.83  | +0.96                     | 1.23                 | 0                         | 12                           | 16    | 7          | 7                            | e.        | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 13                      | 68.5                         | .....                     | 95      | 20   | 42     | 3    | 37                       | 1.52  | -2.71                     | 1.03                 | 0                         | 7                            | 12    | 12         | 6                            | n.        | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 60                      | 72.9                         | +1.5                      | 98      | 20   | 57     | 9    | 28                       | 3.75  | +0.51                     | 1.43                 | 0                         | 10                           | 9     | 13         | 8                            | n.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 73.2                         | .....                     | 99      | 20   | 57     | 9    | 29                       | 4.64  | .....                     | 1.39                 | 0                         | 7                            | 15    | 8          | 7                            | .....     | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 71.0                         | -0.8                      | 90      | 27   | 56     | 3    | 26                       | 3.55  | -0.26                     | 1.46                 | 0                         | 7                            | 19    | 6          | 5                            | s.        | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 21                      | 73.2                         | +2.0                      | 97      | 30   | 49     | 3    | 38                       | 3.46  | -0.15                     | 1.60                 | 0                         | 7                            | 19    | 6          | 5                            | sw.       | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 46                      | 69.6                         | +1.3                      | 96      | 30   | 45     | 3    | 45                       | 5.52  | +1.90                     | 2.79                 | 0                         | 8                            | 17    | 8          | 5                            | nw.       | John E. Bonner.             |
| Reading            | Berks        | 325             | 59                      | 71.0                         | +1.2                      | 98      | 20   | 51     | 2    | 29                       | 4.86  | +1.31                     | 2.50                 | 0                         | 9                            | 11    | 11         | 8                            | n.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 37                      | 68.0                         | +0.2                      | 95      | 20   | 47     | 3    | 36                       | 3.04  | -0.63                     | 1.57                 | 0                         | 9                            | 11    | 11         | 8                            | n.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 41                      | 68.2                         | -0.7                      | 96      | 20   | 41     | 2    | 45                       | 1.68  | -2.52                     | 0.80                 | 0                         | 7                            | 18    | 5          | 7                            | w.        | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 35                      | 72.3                         | +0.3                      | 97      | 21   | 42     | 3    | 36                       | 4.18  | +0.69                     | 1.27                 | 0                         | 10                           | 17    | 5          | 8                            | w.        | W. S. Guides.               |
| State College      | Center       | 1,217           | 47                      | 68.0                         | +1.6                      | 95      | 30   | 41     | 2    | 39                       | 1.64  | -2.65                     | 0.66                 | 0                         | 8                            | 14    | 12         | 4                            | n.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 17                      | 67.0                         | -0.6                      | 97      | 20   | 43     | 3    | 41                       | 4.74  | +0.24                     | 1.75                 | 0                         | 7                            | 17    | 9          | 4                            | w.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 37                      | 65.6                         | +0.1                      | 93      | 20   | 41     | 2    | 38                       | 2.77  | -1.04                     | 0.92                 | 0                         | 9                            | 14    | 5          | 11                           | w.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 61                      | 65.0                         | +0.7                      | 96      | 30   | 33     | 2    | 45                       | 3.43  | -0.56                     | 2.20                 | 0                         | 5                            | 18    | 6          | 6                            | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 82                      | 70.2                         | +0.7                      | 94      | 20   | 51     | 2    | 28                       | 4.73  | +0.46                     | 1.53                 | 0                         | 10                           | 19    | 6          | 5                            | s.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 45                      | 69.1                         | +0.3                      | 100     | 30   | 44     | 2    | 43                       | 2.16  | -1.77                     | 1.03                 | 0                         | 9                            | 17    | 3          | 10                           | w.        | Miss Veronica E. April.     |
| York               | York         | 400             | 43                      | 70.1                         | +0.2                      | 98      | 20   | 42     | 2    | 40                       | 3.60  | +0.02                     | 1.11                 | 0                         | 10                           | 16    | 11         | 3                            | w.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 39                      | 68.8                         | -0.3                      | 93      | 30   | 43     | 2    | 37                       | 5.71  | +1.10                     | 1.21                 | 0                         | 14                           | 10    | 9          | 11                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 66.2                         | +1.0                      | 96      | 30   | 34     | 2    | 52                       | 3.36  | -1.19                     | 1.98                 | 0                         | 7                            | 9     | 11         | 10                           | nw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 62.9                         | -0.3                      | 93      | 21   | 31     | 3    | 43                       | 4.88  | +0.64                     | 1.71                 | 0                         | 9                            | 24    | 3          | 3                            | .....     | John Fawcett.               |
| Butler             | Butler       | 1,152           | 17                      | 70.0                         | .....                     | 95      | 29   | 36     | 2    | 47                       | 4.48  | -0.40                     | 1.86                 | 0                         | 12                           | 16    | 12         | 2                            | nw.       | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 1                       | 66.1                         | -1.5                      | 93      | 20   | 34     | 2    | 42                       | 3.45  | -1.28                     | 1.38                 | 0                         | 10                           | 14    | 5          | 11                           | w.        | John E. Lewis.              |
| Clairton           | Allegheny    | 1,020           | .....                   | 68.4                         | .....                     | 92      | 20   | 45     | 2    | 32                       | 3.05  | .....                     | 0.64                 | 0                         | 9</                          |       |            |                              |           |                             |



## Daily Precipitation for June, 1931

| Stations           | Drainage Basin | Day of month |     |    |     |     |     |      |      |      |     |     |     |     |    |      |      |      |     |    |    |     |      |      |      |     |      |     |     |     |    |    | Total |      |
|--------------------|----------------|--------------|-----|----|-----|-----|-----|------|------|------|-----|-----|-----|-----|----|------|------|------|-----|----|----|-----|------|------|------|-----|------|-----|-----|-----|----|----|-------|------|
|                    |                | 1            | 2   | 3  | 4   | 5   | 6   | 7    | 8    | 9    | 10  | 11  | 12  | 13  | 14 | 15   | 16   | 17   | 18  | 19 | 20 | 21  | 22   | 23   | 24   | 25  | 26   | 27  | 28  | 29  | 30 | 31 |       |      |
| Atlantic Drainage. |                |              |     |    |     |     |     |      |      |      |     |     |     |     |    |      |      |      |     |    |    |     |      |      |      |     |      |     |     |     |    |    |       |      |
| Allentown          | Lehigh         | .36          | .10 |    |     |     |     | T.   | 2.10 |      | .26 | .07 |     |     |    |      | .69  | 2.04 |     |    |    |     | T.   | .08  | .01  | .07 |      | .05 | .06 |     |    |    | 5.81  |      |
| Altoona            | Juniata        |              |     |    |     | .22 | .04 | .50  | .03  |      |     |     |     |     |    | .47  | .35  |      |     |    |    |     | .12  | 1.01 |      |     | 1.18 |     |     |     |    |    | 3.88  |      |
| Ansonia            | W. Br. Susq.   | .01          |     |    |     |     |     | 1.74 | .58  | T.   | T.  |     |     |     |    | T.   | .36  | T.   |     |    |    |     |      |      | .14  |     | .02  |     |     |     |    |    | 2.97  |      |
| Arendtsville       | Lower Susq.    | .29          | .55 |    | .01 |     |     | T.   |      |      |     |     |     |     |    |      | .01  | .40  |     |    |    |     |      |      |      | .80 |      | .22 |     |     |    |    | 4.31  |      |
| Baker's Summit     | Juniata        |              |     |    | .23 |     |     | .15  |      |      |     |     |     |     |    | 1.85 | .29  |      |     |    |    | .11 | .08  | .85  |      |     | .64  | .11 |     |     |    |    | 1.78  |      |
| Bellefonte         | W. Br. Susq.   |              |     |    | T.  | .31 |     | .52  | T.   |      | T.  |     |     |     |    | .18  | .16  |      |     |    |    | .09 | T.   |      | .49  |     | .03  |     |     |     |    |    | 5.15  |      |
| Bethlehem          | Lehigh         | .63          |     |    |     |     |     | T.   | .03  | 1.82 |     | .25 |     |     |    | T.   | 2.16 | .09  |     |    |    | T.  | T.   |      | .05  | .03 | .09  | T.  |     |     |    |    | 2.12  |      |
| Bloersville        | Lower Susq.    | .10          |     |    |     |     |     | .60  |      |      |     |     |     |     |    | .02  | .25  |      |     |    |    |     | T.   | .16  | T.   | .70 |      | .07 |     | .08 |    |    | 3.56  |      |
| Carlisle           | Lower Susq.    | .30          |     |    |     |     |     | .86  |      |      | .01 |     |     |     |    |      | 1.38 |      |     |    |    |     | T.   | .16  | T.   | .70 |      | .07 |     | .08 |    |    | 1.50  |      |
| Catawissa          | N. Br. Susq.   |              |     |    |     |     |     | .50  |      |      | .07 |     |     |     |    | .05  | .69  |      |     |    |    |     | T.   |      |      | T.  |      | .19 |     |     |    |    | 2.24  |      |
| Center Hall        | Susquehanna    |              |     |    |     |     |     | .66  | .24  |      | .14 |     |     |     |    | .18  | .34  |      |     |    |    | .03 |      | .65  |      | .65 |      |     |     |     |    |    | 2.93  |      |
| Chambersburg       | Potomac        | .25          |     |    |     |     |     | 1.19 | .02  |      |     |     |     |     |    | .07  | .17  |      |     |    |    |     | .02  | T.   | .37  | .11 |      | .65 | .08 |     |    |    | 3.51  |      |
| Clearfield         | W. Br. Susq.   |              |     |    |     |     |     | 1.70 | T.   | T.   |     |     |     |     |    | .50  | .28  |      |     |    |    |     | .70  |      | .12  |     | .21  |     |     |     |    |    | 2.99  |      |
| Coatesville        | Lower Del.     | .24          |     |    |     |     |     | 1.08 | .25  |      | .16 | T.  |     |     |    |      | .89  |      |     |    |    |     | T.   | .01  | .30  | .05 |      | .01 |     |     |    |    | 3.83  |      |
| Colebrook          | Lower Susq.    | .22          |     |    |     |     |     | .80  | .16  |      | .17 |     |     |     |    | T.   | 1.40 |      |     |    |    |     | T.   | T.   | 1.07 |     |      | .01 |     |     |    |    | 3.29  |      |
| Conshohocken       | Schuylkill     | 1.10         | T.  |    |     |     |     | T.   | 1.06 |      | .43 | .03 | T.  |     |    |      | .30  |      |     |    |    |     |      | T.   | T.   | .37 |      |     |     |     |    |    | 4.10  |      |
| Cresson            | Juniata        |              |     |    | .24 | .20 |     | .82  |      |      |     |     |     |     |    | .52  | .17  |      |     |    |    | .06 | .30  | .54  |      |     | 1.25 |     |     |     |    |    | 5.70  |      |
| Doylestown         | Lower Del.     | 1.38         |     |    |     |     |     | 1.69 |      |      | .49 | .11 |     |     |    | .92  |      |      |     |    |    |     |      |      | .84  | .07 |      | .20 |     |     |    |    |       | 3.44 |
| Driftwood          | W. Br. Susq.   |              |     |    |     |     |     | 2.29 | .15  |      |     |     |     |     |    | .15  | .15  |      |     |    |    | .70 |      |      | T.   |     |      |     |     |     |    |    | 5.60  |      |
| Emporium           | do.            |              |     |    |     |     |     | 1.85 | .50  | T.   | .07 |     |     |     |    | 1.66 |      |      |     |    |    |     |      | 1.00 | .27  |     |      |     |     |     |    |    | 2.89  |      |
| Ephrata            | Lower Susq.    | .25          |     |    |     |     |     | .02  | 1.65 |      |     |     |     |     |    | T.   | .10  | .97  |     |    |    |     |      | .18  | .03  |     | .04  |     |     |     |    |    | 2.64  |      |
| Forest City        | N. Br. Susq.   |              |     |    |     |     |     | .02  | 1.26 |      | .28 | .01 |     |     |    |      | .10  | .55  |     |    |    |     | T.   |      | .20  | .04 |      | .10 | .06 |     |    |    | 4.76  |      |
| Freeland           | Lehigh         | .02          | T.  | T. |     |     |     | T.   | .02  | 1.26 |     | .28 | .01 |     |    |      | .14  | .15  |     |    |    |     |      | 1.56 |      | .04 |      |     |     |     |    |    | 6.39  |      |
| Galeton            | W. Br. Susq.   |              |     |    | .01 |     |     | 2.70 |      |      | .09 |     |     |     |    |      | .15  |      |     |    |    |     | .07  |      |      |     | .28  | .25 | .28 | .10 |    |    | 3.11  |      |
| George School      | Lower Del.     | .85          | .02 |    |     | .35 |     | .04  | 1.24 |      | .82 | .04 |     | .10 |    |      | .56  |      |     |    |    |     |      |      | .21  | .88 |      | .03 | .28 |     |    |    | 2.28  |      |
| Gettysburg         | Potomac        | .76          |     |    |     | .01 | .04 | .08  | .26  |      | T.  |     |     |     |    |      | .01  | .45  |     |    |    |     |      |      |      |     |      |     |     |     |    |    | 2.70  |      |
| Girardville        | Lower Susq.    |              | .01 |    |     |     |     | 1.52 |      |      | .14 | .01 |     |     |    |      |      |      |     |    |    |     |      |      |      | .02 |      |     |     |     |    |    | 2.94  |      |
| Gordon             | Lower Susq.    | .07          |     |    |     |     |     | 1.35 | .46  |      | .13 |     |     |     |    | .01  | .40  |      |     |    |    |     |      | .05  |      | .12 |      | .11 |     |     |    |    | 5.80  |      |
| Gouldsboro         | Lehigh         | .01          |     |    |     |     |     | 1.12 |      |      | .51 | .03 |     |     |    |      | .05  | .89  |     |    |    |     | .11  | .03  | 1.47 | .16 |      | .05 |     |     |    |    | 4.24  |      |
| Graterford         | Schuylkill     | .63          | .04 |    |     |     |     | 1.38 |      |      | .23 | .12 |     |     |    | .01  | 1.41 |      |     |    |    |     |      |      | .19  |     | .06  |     |     |     |    |    | 3.63  |      |
| Hamburg            | Schuylkill     | .05          |     |    |     |     |     | 2.25 | .37  |      | .21 | .06 |     |     |    |      | .56  |      |     |    |    |     |      |      | .03  | .46 |      | .20 | .18 |     |    |    | 3.28  |      |
| Hanover            | Lower Susq.    | .99          |     |    |     |     |     | .75  | .37  |      | .09 |     |     |     |    |      | .20  |      |     |    |    |     |      |      | .56  |     | .12  |     |     |     |    |    | 2.40  |      |
| Harrisburg         | Lower Susq.    | .30          |     |    |     |     |     | 2.06 | .01  | T.   | .02 |     |     |     |    |      | .01  | .80  |     |    |    |     | .02  | T.   | .02  |     |      |     |     |     |    |    | 2.69  |      |
| Hawley             | Upper Del.     | .03          |     |    | .01 |     |     | T.   | .98  | .01  | .40 | .12 |     |     |    |      | .01  | .80  |     |    |    |     | .03  |      | T.   |     |      |     |     |     |    |    | 2.12  |      |
| Hollisterville     | Upper Del.     | T.           |     |    |     |     |     | T.   | .87  |      | .39 | .01 |     |     |    |      | .05  | .24  |     |    |    |     |      |      | T.   | .71 |      |     | .05 |     |    |    | 2.75  |      |
| Holtwood           | Lower Susq.    | .32          | .09 |    |     |     |     | T.   | .48  |      | .08 | .10 |     |     |    |      |      |      |     |    |    |     |      |      |      |     |      |     |     |     |    |    | 1.60  |      |
| Huntingdon         | Juniata        | .15          |     |    |     | .09 |     | .45  |      |      |     |     |     |     |    | .36  | .18  |      |     |    |    |     | .13  |      | .93  |     | .46  |     |     |     |    |    | 2.51  |      |
| Hyndman            | Potomac        | .03          | T.  |    |     | .16 |     | .12  | T.   |      |     |     |     |     |    | .64  | .14  |      |     |    |    |     | .25  |      | .08  |     | .55  | T.  |     |     |    |    | 2.80  |      |
| Kylertown          | W. B. Susq.    |              |     |    | .02 | T.  |     | .91  | .01  |      |     |     |     |     |    | .55  | .14  |      |     |    |    |     |      | .03  | .10  | .05 | .03  |     |     |     |    |    | 3.25  |      |
| Lakeville          | Upper Del.     | .03          |     |    |     |     |     | .02  | .95  |      | .49 | .07 |     |     |    |      | .03  | 1.00 | T.  |    |    |     |      |      | .10  | .05 |      |     |     |     |    |    | 2.53  |      |
| Lancaster          | Lower Susq.    | .37          |     |    |     |     |     | .02  | .87  |      | .15 |     |     |     |    | 1.37 |      |      |     |    |    |     |      |      | .03  | .06 |      | .24 | .09 |     |    |    | 3.35  |      |
| Lansford           | Lehigh         | .10          | .05 |    |     |     |     | T.   | 1.26 |      | .18 |     |     |     |    |      | .82  |      |     |    |    |     | .32  |      | .03  | .06 |      | .52 |     |     |    |    | 5.61  |      |
| Lawrenceville      | N. Br. Susq.   |              |     |    |     |     |     | 1.28 | .23  | .12  | .16 |     |     |     |    | .30  |      |      |     |    |    |     |      | .05  | .56  |     | .01  |     |     |     |    |    | 2.38  |      |
| Lebanon            | Lower Susq.    | T.           | .27 |    |     |     |     | 1.93 |      | .17  | T.  |     |     |     |    | 1.76 | .78  |      |     |    |    |     | .08  |      | .05  | .24 |      | .04 |     |     |    |    | 1.33  |      |
| Lewisburg          | W. Br. Susq.   |              |     |    |     |     |     | 1.67 |      |      | T.  |     |     |     |    | .11  | .27  |      |     |    |    |     |      |      |      |     |      |     |     |     |    |    | 1.39  |      |
| Lloyd              | do.            |              |     |    |     |     |     | .40  | .01  |      |     |     |     |     |    | .40  | .35  | .05  |     |    |    |     | .06  |      | .06  |     |      |     |     |     |    |    | 1.39  |      |
| Lock Haven         | do.            |              |     |    |     |     |     | .40  | .01  |      |     |     |     |     |    | .40  | .35  | .05  |     |    |    |     | .06  |      | .06  |     |      |     |     |     |    |    | 3.63  |      |
| Lykens             | Susquehanna    | .13          |     |    |     |     |     | .64  | .03  |      | .10 | .03 |     |     |    | T.   | .29  | .04  |     |    |    |     | .01  |      | .09  |     | .17  |     | .03 | T.  |    |    | 2.22  |      |
| Marcus Hook        | Lower Del.     | .84          |     |    |     |     |     | 1.03 |      |      | .26 | .12 |     |     |    |      | 1.21 |      |     |    |    |     |      |      |      |     |      |     |     |     |    |    | 3.86  |      |
| Mauch Chunk        | Lehigh         | .05          |     |    |     |     |     | 1.05 | .51  | .02  |     |     |     |     |    |      | .37  |      |     |    |    |     |      |      | .17  |     | .05  |     |     |     |    |    | 2.46  |      |
| Millintown         | Juniata        |              |     |    |     |     |     | .79  |      |      |     |     |     |     |    |      | .28  |      |     |    |    |     |      |      | .67  | .02 |      | .70 |     |     |    |    | 3.41  |      |
| Montrose           | N. Br. Susq.   |              |     |    |     |     |     | 1.10 |      |      | .15 |     |     |     |    |      | .90  |      |     |    |    |     | .95  |      |      |     |      | .56 |     |     |    |    | 4.25  |      |
| Morris Run         | N. Br. Susq.   |              |     |    |     |     |     | 1.69 | .13  |      | .10 | .04 |     |     |    |      | .72  | .10  | .06 |    |    |     | 1.00 | .35  | T.   | .47 |      |     |     |     |    |    | 4.24  |      |
| Mount Pocono       | Upper Del.     | T.           |     |    |     |     |     | .35  | 1.08 | .01  | .35 | .06 |     |     |    | .03  | .70  | .09  |     |    |    |     |      |      |      |     | .23  |     |     |     |    |    | 4.83  |      |
| Muncy Valley       | W. Br. Susq.   |              |     |    |     |     | .51 |      |      |      | .10 |     |     |     |    | .05  | .37  |      |     |    |    |     |      |      |      |     |      |     |     |     |    |    |       |      |



## Daily Precipitation for June, 1931—Continued from page 28

| Stations        | Drainage Basin | Day of month |   |   |     |      |      |      |      |     |    |    |    |     |      |      |     |     |    |     |     |     |      |      |      |      |      |     |     |    |    |    | Total |  |
|-----------------|----------------|--------------|---|---|-----|------|------|------|------|-----|----|----|----|-----|------|------|-----|-----|----|-----|-----|-----|------|------|------|------|------|-----|-----|----|----|----|-------|--|
|                 |                | 1            | 2 | 3 | 4   | 5    | 6    | 7    | 8    | 9   | 10 | 11 | 12 | 13  | 14   | 15   | 16  | 17  | 18 | 19  | 20  | 21  | 22   | 23   | 24   | 25   | 26   | 27  | 28  | 29 | 30 | 31 |       |  |
| Ohio Drainage.  |                |              |   |   |     |      |      |      |      |     |    |    |    |     |      |      |     |     |    |     |     |     |      |      |      |      |      |     |     |    |    |    |       |  |
| Beaver Dam      | Ohio           | .01          |   |   |     | .43  |      | .52  | .66  |     |    |    |    |     |      | 1.11 | .10 | .26 |    |     | .02 | .39 | .15  | .34  | .22  |      | .52  | .98 |     |    |    |    | 5.71  |  |
| Beaver Falls    | Beaver         | .05          |   |   |     | .64  |      | .53  | .67  | T.  |    |    |    |     |      | 2.02 | .05 | .58 |    |     |     | .52 | .06  | .29  |      |      | .40  | .82 |     |    |    |    | 6.63  |  |
| Bradford        | Allegheny      |              |   |   |     |      | .15  | 1.98 | .05  |     |    |    |    |     |      | .05  | .45 | .08 |    |     |     | .60 |      |      |      |      |      |     |     |    |    |    | 3.36  |  |
| Brookville      | do             | .26          |   |   |     |      |      | .90  | 1.71 | T.  |    |    |    |     |      | 1.55 | .01 |     |    |     |     | .10 |      |      | .18  |      | .08  | .09 |     |    |    |    | 4.88  |  |
| Butler          | Ohio           |              |   |   | .05 | .42  |      | 1.34 | .05  |     |    |    |    |     |      | 1.86 | .13 |     |    |     | .13 |     | .10  | .11  |      | .29  |      | .17 | .01 |    |    |    | 4.48  |  |
| Chambersville   | Allegheny      |              |   |   | T.  | .26  | .12  | 1.38 | .15  |     |    |    |    |     |      | .33  | .17 |     |    |     | .22 |     | .64  |      |      |      |      | .17 | .01 |    |    |    | 3.45  |  |
| Clairton        | Monongahela    |              |   |   | .62 |      | .27  | .64  |      |     |    |    |    |     | .30  |      | .30 |     |    |     | .02 |     | .19  |      |      |      | .52  | .19 |     |    |    |    | 3.05  |  |
| Claysville      | Ohio           |              |   |   | .01 | 1.00 |      | .78  | .26  |     |    |    |    |     |      | .34  | .06 |     |    |     |     | T.  | .01  |      |      |      | .30  | .31 |     |    |    |    | 3.07  |  |
| Clymer          | Conemaugh      |              |   |   |     | .42  |      | 1.10 | .59  |     |    |    |    |     | .10  |      | .48 |     |    |     |     |     |      |      | .43  | .18  |      | .34 |     |    |    |    | 3.64  |  |
| Confluence      | Youghiogheny   | .04          |   |   |     | .40  |      | .05  | .22  | .06 |    |    |    |     | 1.00 | .20  | .29 |     |    |     |     |     |      | .52  | .85  |      | .03  | .63 |     |    |    |    | 4.29  |  |
| Corry           | Allegheny      |              |   |   |     |      |      | 1.80 | .14  |     |    |    |    |     |      |      |     |     |    |     |     | .02 |      |      |      |      | .68  |     |     |    |    |    | 2.64  |  |
| Coudersport     | Allegheny      |              |   |   |     |      | .193 | 1.28 | .05  |     |    |    |    |     |      | 1.05 | .05 |     |    |     | .21 |     |      | .79  |      | .02  |      |     |     |    |    |    | 5.38  |  |
| Derry           | Conemaugh      |              |   |   |     | .50  | T.   | .58  | .08  |     |    |    |    |     | .11  | .06  | .07 |     |    |     |     | T.  |      | 1.55 |      |      | .87  | .29 |     |    |    |    | 4.11  |  |
| Donora          | Monongahela    |              |   |   |     | .28  |      | .60  | .38  | .02 |    |    |    |     | .50  | .18  |     |     |    |     |     | .02 |      | .26  | .70  |      | .28  | .42 |     |    |    |    | 3.64  |  |
| Ebensburg       | Conemaugh      |              |   |   |     | .36  |      | .12  | .05  |     |    |    |    | .05 | T.   | .50  | .24 |     |    |     |     | .08 |      | .60  |      | .85  |      |     |     |    |    |    | 2.85  |  |
| Elk Lick        | Youghiogheny   |              |   |   |     |      | .20  | .20  | .18  |     |    |    |    |     | .03  | .26  |     |     |    |     |     |     |      | .94  |      | 1.00 | .17  |     |     |    |    |    | 2.98  |  |
| Falls Creek     | Allegheny      |              |   |   | .02 |      | .15  | 1.77 | .26  |     |    |    |    |     |      | .32  |     |     |    |     |     | .71 |      | .19  |      |      | .25  |     |     |    |    |    | 3.67  |  |
| Franklin        | Allegheny      | .12          |   |   |     | .30  |      | .90  | .85  |     |    |    |    |     |      | .03  |     |     |    |     |     | .40 |      | .43  |      | .12  | .14  |     |     |    |    |    | 3.29  |  |
| Freeport        | do             | .01          |   |   |     | .27  |      | 1.05 | .98  | T.  |    |    |    |     |      | 1.40 | .09 | .47 |    |     |     | .57 |      | .27  | 2.05 |      | .01  | .71 |     |    |    |    | 7.88  |  |
| Greensboro      | Monongahela    | T.           |   |   |     | .77  | .17  | .13  | .48  | .08 |    |    |    |     |      | .80  | T.  | .02 |    |     |     |     |      | 1.53 | .05  |      | .09  | .45 |     |    |    |    | 4.57  |  |
| Greensburg      | Youghiogheny   |              |   |   | T.  | .47  | .07  | .54  | .10  |     |    |    |    |     | .01  | .93  | .37 |     |    |     | .21 |     | .05  | 1.30 |      | .11  | .45  | .01 |     |    |    |    | 4.62  |  |
| Greenville      | Beaver         |              |   |   |     |      | .08  | .75  | .05  | T.  |    |    |    |     | .08  | T.   |     |     |    |     |     |     | T.   | .04  |      |      | .23  |     |     |    |    |    | 1.23  |  |
| Grove City      | do             | T.           |   |   |     | .10  | .05  | 1.80 | .09  |     |    |    |    |     | T.   | .07  | .05 |     |    |     | T.  |     | .04  | .95  |      | 1.46 |      |     |     |    |    |    | 4.61  |  |
| Herr's Isl. Dam | Ohio           | T.           |   |   |     | .25  |      | .31  | 1.13 |     |    |    |    |     |      | .57  | .01 | .32 |    |     |     | .13 | T.   | .61  | .11  | 1.63 | .95  |     |     |    |    |    | 6.02  |  |
| Ingram          | Ohio           |              |   |   | .03 | .35  |      | 1.34 | .03  |     |    |    |    |     | .32  | .60  | .19 |     |    |     | .15 |     | .34  | .35  |      | 1.44 | .32  |     |     |    |    |    | 5.46  |  |
| Irwin           | Youghiogheny   |              |   |   | T.  | .50  | .23  | 1.23 | .05  |     |    |    |    |     | .55  | .27  |     |     |    | T.  | .05 |     | .04  | .26  |      | .09  | .21  |     |     |    |    |    | 3.48  |  |
| Johnstown       | Conemaugh      |              |   |   |     | .31  | .01  | .65  | .07  |     |    |    |    |     | .06  | .01  | .04 |     |    |     | .18 |     | T.   | 1.32 |      | 1.54 | .22  |     |     |    |    |    | 4.41  |  |
| Kregar          | Youghiogheny   |              |   |   | .33 | .33  | .19  | .24  |      |     |    |    |    |     | .98  | .08  | .08 |     |    |     | .04 | .17 |      | 1.22 | .18  | T.   | .02  | .46 |     |    |    |    | 4.32  |  |
| Lake Lynn       | Monongahela    |              |   |   |     | .75  |      | .10  | .05  | .08 |    |    |    |     |      | .01  |     |     |    |     |     |     |      | .87  | .15  |      | .02  | .81 |     |    |    |    | 2.84  |  |
| Linesville      | Beaver         |              |   |   |     |      |      | 1.56 | .15  | .04 |    |    |    |     | 1.15 |      |     |     |    |     | .08 |     |      | .11  |      | .20  |      |     |     |    |    |    | 3.29  |  |
| Lock No. 2      | Ohio           | .02          |   |   |     | .26  |      | .99  | .66  |     |    |    |    |     | 1.46 | .04  | .21 |     |    |     |     | .03 | .03  | .76  | .56  |      | .75  | .80 |     |    |    |    | 6.57  |  |
| Lock No. 4      | Monongahela    |              |   |   |     | .39  |      | .26  | .77  |     |    |    |    |     | 1.11 |      | .08 |     |    |     |     |     | .45  | .91  |      | 1.10 | .23  |     |     |    |    |    | 5.30  |  |
| Lycippus        | Conemaugh      |              |   |   |     | 1.00 |      | .55  | .22  |     |    |    |    |     | .45  | .08  | .11 |     |    |     | .15 |     | .77  |      | .15  | .65  |      |     |     |    |    |    | 4.13  |  |
| McKeesport      | Monongahela    |              |   |   |     | .56  |      | .58  | .36  |     |    |    |    |     | .21  |      | .36 |     |    |     | .02 | T.  | .27  | T.   |      | .69  | .28  |     |     |    |    |    | 3.33  |  |
| Meadville       | Allegheny      |              |   |   |     | T.   |      | 1.25 | .15  |     |    |    |    |     | .03  | .10  |     |     |    |     |     |     | .17  |      | .52  |      |      |     |     |    |    |    | 2.22  |  |
| Mount Lebanon   | Ohio           |              |   |   | .01 | .53  | T.   | 2.25 | .06  |     |    |    |    |     | .05  | .64  | .14 |     |    |     | .42 |     | .44  | .15  |      | .99  | .14  |     |     |    |    |    | 5.82  |  |
| Natrona         | Allegheny      |              |   |   |     | .27  | .08  | 1.00 | .30  | .01 |    |    |    |     | .83  | .04  | .64 |     |    |     | .30 |     | 1.43 | 1.88 |      | .08  | .22  |     |     |    |    |    | 8.08  |  |
| New Castle      | Beaver         | .05          |   |   |     | .37  |      | .48  | .59  |     |    |    |    |     | .66  | .05  | .08 |     |    |     | .21 | .01 | .03  |      | .82  | .53  |      |     |     |    |    |    | 4.88  |  |
| Newell          | Monongahela    |              |   |   | .62 |      | .34  | .24  | .20  |     |    |    |    |     | .22  | .92  |     |     |    |     | .09 | .22 | .54  |      | .65  | .27  |      |     |     |    |    |    | 4.21  |  |
| Parkers Landing | Allegheny      | T.           |   |   |     | .30  |      | .33  | 1.02 | T.  |    |    |    |     | .77  | .02  | .04 |     |    |     | .29 | T.  | T.   | 1.16 |      | .03  | .14  |     |     |    |    |    | 4.10  |  |
| Pennline        | Beaver         | .01          |   |   |     |      |      | 1.26 | .35  | .05 |    |    |    |     |      | .68  |     |     |    |     |     | .06 |      | .10  |      | T.   | .25  |     |     |    |    |    | 2.76  |  |
| Pittsburgh      | Ohio           |              |   |   | .21 | T.   | .23  | 1.29 | T.   |     |    |    |    |     | .49  | T.   | .26 |     |    |     | .31 |     | .82  | .10  |      | 1.70 | .31  |     |     |    |    |    | 5.72  |  |
| Punxsutawney    | Allegheny      |              |   |   |     | T.   |      | .47  | .87  |     |    |    |    |     |      | .86  |     |     |    |     |     | .76 |      | T.   | .48  |      | .61  |     |     |    |    |    | 4.05  |  |
| Ridgway         | do             | .04          |   |   |     |      |      | 1.25 | 1.70 | .06 |    |    |    |     | .49  | .28  | .08 |     |    |     |     | .75 |      | .13  |      | .20  | .19  |     |     |    |    |    | 5.17  |  |
| Saltsburg       | Conemaugh      |              |   |   |     | .32  | .25  | .96  | .52  | .01 |    |    |    |     | .38  | .02  | .64 |     |    |     | .06 |     | .82  | .35  |      | .02  | 1.20 |     |     |    |    |    | 5.55  |  |
| Sharon          | Beaver         | .25          |   |   |     | .12  |      | 1.58 |      |     |    |    |    |     | .10  |      | .21 |     |    | .05 |     | .01 | .05  | .11  |      | .03  | .80  |     |     |    |    |    | 3.31  |  |
| Somerset        | Youghiogheny   | .03          |   |   |     | .89  | .07  | .18  | .12  |     |    |    |    |     | .01  | .05  | .09 |     |    |     | .54 | .03 | .66  | .02  |      | .51  | .46  |     |     |    |    |    | 3.66  |  |
| Springdale      | Allegheny      | .01          |   |   |     | .14  |      | .53  | 1.88 | .03 |    |    |    |     | .51  | .32  | .35 |     |    |     |     | .10 |      | .66  | .53  |      | .17  | .36 |     |    |    |    | 6.09  |  |
| Uniontown       | Monongahela    |              |   |   | T.  | .75  |      | .40  | .16  | .08 |    |    |    |     | .01  | .13  | .03 |     |    |     | .10 |     | .07  | 1.58 |      | .28  | .22  |     |     |    |    |    | 3.81  |  |
| Unity Reservoir | Youghiogheny   |              |   |   |     | .45  | T.   | .45  | .09  |     |    |    |    |     | .53  | .25  |     |     |    |     | .23 |     | 1.15 |      | .15  | .52  |      |     |     |    |    |    | 3.82  |  |
| Vandergrift     | Conemaugh      |              |   |   | .62 |      |      | .01  |      |     |    |    |    |     | .44  | .05  | .88 |     |    |     |     | .76 | 1.36 |      | .53  |      |      |     |     |    |    |    | 4.15  |  |
| Warren          | Allegheny      |              |   |   |     | .20  | .35  | .25  |      |     |    |    |    |     | 1.50 | 1.10 |     | .14 |    |     | .55 |     | .03  |      | .75  | .03  |      |     |     |    |    |    | 7.90  |  |
| Waynesburg      | Monongahela    |              |   |   |     | .60  |      | .50  | .10  | .11 |    |    |    |     | .50  |      |     |     |    |     |     | .10 | .20  |      | .68  | .43  |      |     |     |    |    |    | 3.22  |  |
| Westford        | Beaver         |              |   |   |     | .90  |      | .54  |      |     |    |    |    |     | .62  |      |     |     |    |     |     |     | .03  |      | .25  |      |      |     |     |    |    |    | 2.34  |  |
| West Newton     | Youghiogheny   |              |   |   |     | .69  |      | .20  | .61  | .07 |    |    |    |     | .20  |      | .18 |     |    |     | .06 |     | .15  | .22  |      | .12  | .25  |     |     |    |    |    | 2.75  |  |
| Zellenople      | Ohio           |              |   |   |     |      |      |      |      |     |    |    |    |     |      |      |     |     |    |     |     |     |      |      |      |      |      |     |     |    |    |    |       |  |
| Lake Drainage.  |                |              |   |   |     |      |      |      |      |     |    |    |    |     |      |      |     |     |    |     |     |     |      |      |      |      |      |     |     |    |    |    |       |  |
| Erie            | Lake Erie      |              |   |   |     | 1.24 | .25  | .01  |      |     |    |    |    |     | T.   | .52  | .05 |     |    |     | .03 | .01 |      | .10  | T.   |      | .02  |     |     |    |    |    | 1.76  |  |
| Genesee         | do             |              |   |   |     |      |      | 1.97 | .35  |     |    |    |    |     |      |      |     |     |    |     |     |     |      |      |      | .05  |      |     |     |    |    |    | 3.08  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville Newville; of Clymer, Indiana; of Driftwood, Sinnemahoning; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir



Daily Temperatures for June, 1931

| Stations           |              | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28  | 29 | 30  | 31   | Mean |
|--------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|-----|----|-----|------|------|
| Allentown.....     | Maximum..... | 62 | 74 | 76 | 84 | 84 | 76 | 87 | 72 | 64 | 63 | 77 | 82 | 76 | 79 | 75 | 72 | 76 | 80 | 89 | 97  | 87  | 79 | 67 | 80 | 84 | 87 | 89 | 87  | 88 | 95  | 79.6 |      |
|                    | Minimum..... | 59 | 54 | 47 | 52 | 56 | 57 | 57 | 60 | 54 | 51 | 57 | 51 | 60 | 56 | 63 | 64 | 55 | 50 | 56 | 63  | 69  | 58 | 60 | 60 | 51 | 51 | 61 | 61  | 56 | 60  | 57.0 |      |
| Altoona.....       | Maximum..... | 68 | 74 | 81 | 83 | 80 | 75 | 73 | 69 | 65 | 73 | 81 | 83 | 87 | 79 | 77 | 69 | 77 | 82 | 90 | 95  | 85  | 78 | 85 | 75 | 83 | 88 | 85 | 85  | 85 | 92  | 80.1 |      |
|                    | Minimum..... | 49 | 40 | 45 | 49 | 62 | 44 | 59 | 51 | 45 | 49 | 50 | 51 | 54 | 62 | 65 | 59 | 47 | 48 | 54 | 65  | 64  | 57 | 62 | 59 | 50 | 63 | 66 | 57  | 54 | 58  | 54.6 |      |
| Beaver Dam.....    | Maximum..... | 67 | 73 | 80 | 80 | 73 | 84 | 83 | 65 | 68 | 74 | 79 | 83 | 89 | 88 | 81 | 79 | 76 | 84 | 90 | 91  | 91  | 81 | 79 | 79 | 90 | 90 | 86 | 85  | 86 | 93  | 81.6 |      |
|                    | Minimum..... | 48 | 43 | 47 | 52 | 63 | 47 | 61 | 52 | 49 | 45 | 45 | 53 | 58 | 62 | 63 | 53 | 49 | 51 | 54 | 65  | 61  | 61 | 67 | 56 | 59 | 64 | 66 | 61  | 64 | 64  | 56.1 |      |
| Bellefonte.....    | Maximum..... | 66 | 74 | 80 | 80 | 80 | 74 | 74 | 63 | 64 | 72 | 78 | 82 | 82 | 77 | 75 | 65 | 78 | 80 | 88 | 94  | 85  | 73 | 84 | 78 | 85 | 88 | 87 | 87  | 90 | 94  | 79.2 |      |
|                    | Minimum..... | 44 | 38 | 46 | 48 | 59 | 45 | 59 | 52 | 52 | 52 | 52 | 49 | 55 | 63 | 63 | 50 | 46 | 45 | 52 | 61  | 59  | 56 | 61 | 53 | 46 | 64 | 62 | 54  | 49 | 52  | 52.9 |      |
| Brookville.....    | Maximum..... | 65 | 62 | 74 | 79 | 81 | 80 | 78 | 66 | 60 | 67 | 76 | 80 | 84 | 89 | 87 | 78 | 69 | 77 | 81 | 88  | 93  | 82 | 74 | 83 | 79 | 86 | 87 | 85  | 83 | 87  | 78.7 |      |
|                    | Minimum..... | 44 | 36 | 31 | 40 | 41 | 45 | 40 | 53 | 50 | 44 | 36 | 40 | 45 | 50 | 56 | 56 | 40 | 38 | 39 | 48  | 58  | 55 | 54 | 59 | 48 | 44 | 61 | 55  | 52 | 56  | 47.1 |      |
| Butler.....        | Maximum..... | 73 | 78 | 90 | 87 | 83 | 83 | 77 | 70 | 69 | 79 | 86 | 91 | 92 | 98 | 90 | 78 | 83 | 89 | 94 | 94  | 92  | 86 | 84 | 87 | 90 | 87 | 88 | 90  | 95 | 95  | 85.8 |      |
|                    | Minimum..... | 47 | 36 | 43 | 57 | 63 | 43 | 55 | 52 | 49 | 45 | 42 | 52 | 55 | 64 | 62 | 57 | 44 | 42 | 51 | 65  | 60  | 59 | 65 | 56 | 51 | 67 | 65 | 55  | 60 | 69  | 54.2 |      |
| Carlisle.....      | Maximum..... | 72 | 79 | 85 | 83 | 86 | 80 | 80 | 67 | 67 | 75 | 82 | 86 | 91 | 92 | 80 | 86 | 84 | 81 | 86 | 87  | 83  | 81 | 75 | 76 | 84 | 90 | 98 | 101 | 92 | 93  | 84.3 |      |
|                    | Minimum..... | 58 | 44 | 49 | 48 | 65 | 53 | 62 | 56 | 51 | 57 | 58 | 51 | 60 | 59 | 66 | 60 | 52 | 45 | 54 | 62  | 71  | 60 | 64 | 60 | 50 | 63 | 61 | 58  | 58 | 58  | 57.2 |      |
| Catawissa.....     | Maximum..... | 71 | 83 | 84 | 88 | 86 | 82 | 83 | 74 | 63 | 69 | 81 | 86 | 87 | 83 | 81 | 75 | 76 | 84 | 90 | 98  | 101 | 92 | 84 | 86 | 88 | 99 | 94 | 95  | 98 | 102 | 85.4 |      |
|                    | Minimum..... | 57 | 43 | 43 | 48 | 60 | 49 | 60 | 58 | 49 | 54 | 59 | 50 | 58 | 58 | 64 | 55 | 47 | 50 | 46 | 45  | 60  | 51 | 57 | 59 | 41 | 67 | 62 | 57  | 50 | 55  | 53.9 |      |
| Chambersburg.....  | Maximum..... | 71 | 80 | 85 | 86 | 88 | 81 | 88 | 77 | 72 | 76 | 84 | 90 | 88 | 77 | 80 | 79 | 85 | 89 | 96 | 101 | 94  | 86 | 90 | 84 | 87 | 91 | 92 | 93  | 93 | 97  | 86.0 |      |
|                    | Minimum..... | 57 | 43 | 49 | 51 | 54 | 55 | 51 | 56 | 50 | 56 | 53 | 55 | 60 | 63 | 65 | 65 | 52 | 50 | 56 | 64  | 70  | 63 | 64 | 62 | 52 | 63 | 64 | 63  | 61 | 60  | 57.6 |      |
| Chambersville..... | Maximum..... | 69 | 72 | 79 | 80 | 79 | 80 | 75 | 69 | 68 | 77 | 82 | 86 | 89 | 86 | 79 | 74 | 78 | 83 | 89 | 93  | 83  | 83 | 82 | 84 | 80 | 87 | 86 | 87  | 87 | 91  | 81.5 |      |
|                    | Minimum..... | 46 | 34 | 41 | 42 | 62 | 40 | 60 | 51 | 44 | 38 | 40 | 47 | 53 | 59 | 59 | 54 | 39 | 41 | 48 | 58  | 56  | 56 | 56 | 56 | 59 | 47 | 52 | 63  | 54 | 57  | 50.7 |      |
| Claysville.....    | Maximum..... | 70 | 77 | 84 | 84 | 80 | 86 | 83 | 68 | 71 | 79 | 84 | 89 | 93 | 92 | 83 | 78 | 78 | 88 | 94 | 96  | 87  | 90 | 88 | 87 | 94 | 91 | 89 | 90  | 94 | 95  | 85.4 |      |
|                    | Minimum..... | 46 | 36 | 45 | 50 | 60 | 46 | 58 | 50 | 39 | 40 | 41 | 50 | 56 | 62 | 61 | 54 | 43 | 46 | 52 | 68  | 60  | 60 | 60 | 68 | 61 | 57 | 67 | 65  | 59 | 63  | 65   | 54.6 |
| Clearfield.....    | Maximum..... | 78 | 81 | 85 | 82 | 84 | 80 | 80 | 75 | 70 | 83 | 78 | 83 | 83 | 81 | 78 | 73 | 79 | 83 | 87 | 83  | 98  | 88 | 76 | 85 | 84 | 90 | 89 | 92  | 84 | 92  | 76   | 84.4 |
|                    | Minimum..... | 49 | 35 | 40 | 45 | 62 | 40 | 67 | 55 | 43 | 62 | 55 | 67 | 52 | 59 | 62 | 59 | 42 | 42 | 50 | 65  | 65  | 56 | 56 | 50 | 46 | 64 | 86 | 90  | 88 | 89  | 94   | 81.4 |
| Coatesville.....   | Maximum..... | 66 | 74 | 79 | 85 | 86 | 79 | 88 | 75 | 68 | 63 | 77 | 85 | 80 | 79 | 79 | 73 | 79 | 83 | 91 | 97  | 89  | 81 | 76 | 80 | 84 | 86 | 90 | 88  | 89 | 94  | 88   | 59.2 |
|                    | Minimum..... | 58 | 48 | 51 | 54 | 65 | 59 | 57 | 52 | 55 | 58 | 59 | 59 | 55 | 63 | 60 | 56 | 55 | 58 | 66 | 72  | 61  | 61 | 62 | 54 | 63 | 66 | 64 | 66  | 64 | 65  | 80.3 |      |
| Corry.....         | Maximum..... | 66 | 73 | 81 | 80 | 77 | 71 | 66 | 55 | 68 | 72 | 79 | 84 | 91 | 89 | 80 | 72 | 78 | 85 | 92 | 94  | 76  | 82 | 83 | 84 | 89 | 85 | 83 | 86  | 92 | 96  | 60   | 51.5 |
|                    | Minimum..... | 49 | 35 | 41 | 51 | 49 | 43 | 38 | 49 | 42 | 42 | 47 | 51 | 55 | 64 | 59 | 56 | 42 | 42 | 56 | 69  | 60  | 56 | 55 | 52 | 50 | 55 | 60 | 58  | 59 | 60  | 78.3 |      |
| Emporium.....      | Maximum..... | 65 | 71 | 78 | 80 | 80 | 75 | 72 | 63 | 66 | 70 | 76 | 81 | 86 | 82 | 77 | 73 | 75 | 79 | 86 | 92  | 82  | 74 | 78 | 76 | 82 | 87 | 85 | 82  | 85 | 90  | 76.0 |      |
|                    | Minimum..... | 51 | 37 | 41 | 49 | 59 | 41 | 63 | 53 | 44 | 42 | 51 | 54 | 61 | 55 | 56 | 44 | 43 | 54 | 62 | 65  | 65  | 60 | 58 | 46 | 65 | 61 | 60 | 55  | 57 | 58  | 53.1 |      |
| Erie.....          | Maximum..... | 62 | 65 | 74 | 80 | 67 | 75 | 65 | 57 | 63 | 71 | 76 | 79 | 81 | 85 | 74 | 69 | 71 | 81 | 92 | 92  | 72  | 77 | 72 | 73 | 89 | 81 | 81 | 81  | 88 | 88  | 76.0 |      |
|                    | Minimum..... | 50 | 46 | 55 | 61 | 60 | 56 | 53 | 51 | 51 | 51 | 54 | 61 | 65 | 69 | 64 | 58 | 54 | 54 | 70 | 68  | 64  | 61 | 57 | 54 | 61 | 63 | 67 | 68  | 68 | 74  | 59.6 |      |
| Franklin.....      | Maximum..... | 68 | 76 | 83 | 80 | 77 | 79 | 68 | 60 | 68 | 75 | 82 | 90 | 93 | 87 | 82 | 74 | 82 | 86 | 92 | 94  | 84  | 77 | 83 | 85 | 89 | 85 | 87 | 87  | 95 | 97  | 82.2 |      |
|                    | Minimum..... | 52 | 43 | 45 | 50 | 55 | 47 | 52 | 53 | 50 | 46 | 47 | 50 | 57 | 64 | 63 | 56 | 48 | 46 | 50 | 58  | 59  | 59 | 61 | 55 | 51 | 55 | 60 | 57  | 62 | 61  | 53.7 |      |
| Freeland.....      | Maximum..... | 61 | 71 | 74 | 83 | 81 | 74 | 74 | 70 | 56 | 61 | 70 | 80 | 80 | 77 | 70 | 70 | 74 | 78 | 86 | 92  | 84  | 77 | 69 | 73 | 80 | 85 | 83 | 80  | 82 | 89  | 89   | 76.1 |
|                    | Minimum..... | 51 | 46 | 49 | 59 | 62 | 48 | 52 | 54 | 47 | 48 | 52 | 55 | 57 | 56 | 58 | 57 | 49 | 55 | 62 | 69  | 63  | 51 | 57 | 52 | 53 | 60 | 58 | 62  | 58 | 65  | 55.5 |      |
| Genesee.....       | Maximum..... | 61 | 69 | 75 | 80 | 75 | 66 | 61 | 62 | 68 | 72 | 78 | 86 | 80 | 80 | 69 | 75 | 81 | 90 | 93 | 78  | 75  | 75 | 72 | 80 | 83 | 85 | 87 | 85  | 87 | 93  | 76.8 |      |
|                    | Minimum..... | 49 | 30 | 40 | 41 | 34 | 58 | 48 | 47 | 42 | 53 | 45 | 44 | 63 | 45 | 55 | 40 | 39 | 50 | 60 | 60  | 49  | 52 | 51 | 40 | 59 | 52 | 45 | 45  | 45 | 45  | 47.7 |      |
| Gettysburg.....    | Maximum..... | 66 | 74 | 80 | 85 | 85 | 80 | 85 | 67 | 68 | 71 | 78 | 85 | 85 | 79 | 80 | 77 | 81 | 84 | 92 | 97  | 93  | 86 | 87 | 78 | 83 | 86 | 89 | 90  | 85 | 93  | 82.3 |      |
|                    | Minimum..... | 57 | 45 | 51 | 52 | 65 | 56 | 63 | 57 | 50 | 58 | 56 | 55 | 65 | 62 | 64 | 65 | 53 | 53 | 57 | 64  | 72  | 64 | 65 | 60 | 53 | 61 | 64 | 65  | 61 | 60  | 59.1 |      |
| Greensburg.....    | Maximum..... | 70 | 73 | 81 | 80 | 77 | 85 | 76 | 66 | 70 | 77 | 81 | 85 | 91 | 91 | 78 | 76 | 77 | 84 | 91 | 91  | 89  | 94 | 85 | 79 | 87 | 85 | 86 | 84  | 90 | 93  | 82.4 |      |
|                    | Minimum..... | 50 | 43 | 48 | 50 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |     |    |     |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

JULY, 1931.

No. 7

## GENERAL SUMMARY.

July was hot, humid, and generally uncomfortable. With two exceptions, it was the hottest July during the 44 years period of the State Weather Service. In 1921 the July mean for the State was 0.7° higher, and in 1901 it was 1.2° higher than that of July this year. In each instance the rainfall was less, and the conditions were probably no more oppressive. The rainfall averaged about an inch above the July normal, and was very unevenly distributed. In some places excessive rains resulted in heavy damage, while in others the crops were stunted by drought. In the favored regions, which comprised much the greater portion of the State, the crop-growing conditions were excellent. Corn grew rapidly and made up fully for the somewhat backward condition that prevailed earlier in the season. A large portion of the crop was in tassel by the middle of the month, and eared up rapidly thereafter. At the close of the month the crop was rated above the ten-year average. Wheat harvest was getting under way in the southern counties at the beginning of the month. The straw was heavy, the heads large, and the grain of good quality. Threshing began about the middle of the month, and many large yields were reported. Oats developed a heavy straw, but the grain did not fill well, and yields were mostly below the average. Pastures and the hay crop were good excepting the dry regions. Early potatoes were good in yield and quality, and were being marketed during the last ten days of the month. The late crop suffered more from beetles and aphids which appeared rather suddenly in large numbers, and blight was reported in some sections. The fruit crop was the most promising for several years, although there were many complaints of apples falling from the trees. There seemed to be more than the usual number of severe local storms, especially in the central and eastern portions of the State. On July 1st severe thunderstorms were reported in Bradford, Cumberland, and Lancaster Counties with a total damage probably in excess of \$300,000. Many houses were unroofed in Lancaster and Lititz by the high winds, and hail did much damage to crops. On the 9th severe storms occurred in the north-central and northeastern counties, and heavy flood damage was reported from Sunbury and Scranton. On the 14th excessive rains occurred across the northern portion of Philadelphia and in adjacent regions with flood damage estimated to be in excess of a million dollars. On the 16th Pittsburgh experienced a severe windstorm, and on the 17th considerable damage by floods oc-

curred at Chambersburg, where a boy was killed by lightning.

## TEMPERATURE.

The mean temperature for the State, as shown by reports from 88 stations, was 75.2°, which is 3.2° higher than the July normal. The highest monthly mean was 81.6° at Marcus Hook, and the lowest was 66.8° at Ridgway. The highest temperature recorded was 105°, at Lock Haven on the 1st, and at Hyndman on the 2d, while the lowest was 39° at Ridgway on the 11th. The greatest daily range of temperature was 48° at Hyndman on the 1st.

## PRECIPITATION.

The average precipitation for the State, as deduced from observations taken at 143 well-distributed stations, was 5.28 inches, which is 0.99 inch above the normal for the month.. The greatest monthly amount was 13.28 inches at Center Hall, and the least, 1.81 inches at New Castle. The greatest amount recorded in any 24 consecutive hours was 5.88 inches, at Westgrove on the 9-10th.

## COMPARATIVE DATA FOR JULY

| Year                | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|---------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                     | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888                | 69.2        | 97      | 38     | 3.45          | 7.10     | 1.40  |             |               |        |                        |
| 1889                | 71.6        | 96      | 39     | 6.80          | 15.02    | 1.04  |             |               |        |                        |
| 1890                | 70.7        | 101     | 33     | 3.52          | 6.40     | 0.70  | 13          | 11            | 7      | 8                      |
| 1891                | 67.8        | 97      | 34     | 6.32          | 11.61    | 2.63  | 11          | 10            | 10     | 13                     |
| 1892                | 73.1        | 103     | 38     | 3.93          | 8.59     | 2.15  | 15          | 11            | 5      | 10                     |
| 1893                | 72.1        | 102     | 36     | 3.15          | 6.27     | 1.58  | 15          | 12            | 4      | 10                     |
| 1894                | 73.8        | 103     | 31     | 2.32          | 5.96     | 0.53  | 15          | 11            | 5      | 7                      |
| 1895                | 69.1        | 102     | 31     | 3.24          | 6.18     | 1.16  | 12          | 12            | 7      | 9                      |
| 1896                | 72.0        | 98      | 40     | 6.89          | 15.59    | 3.04  | 10          | 11            | 10     | 14                     |
| 1897                | 73.4        | 103     | 41     | 6.26          | 14.51    | 2.10  | 10          | 11            | 10     | 14                     |
| 1898                | 74.8        | 107     | 33     | 3.36          | 6.29     | 1.15  | 12          | 12            | 7      | 9                      |
| 1899                | 72.3        | 101     | 35     | 3.91          | 8.24     | 1.53  | 12          | 11            | 8      | 10                     |
| 1900                | 74.0        | 104     | 35     | 4.86          | 8.26     | 1.81  | 14          | 12            | 5      | 11                     |
| 1901                | 76.4        | 107     | 45     | 3.88          | 7.34     | 1.52  | 10          | 13            | 8      | 11                     |
| 1902                | 71.8        | 99      | 41     | 6.04          | 12.35    | 2.11  | 10          | 12            | 9      | 15                     |
| 1903                | 71.2        | 98      | 35     | 5.36          | 8.81     | 1.76  | 13          | 12            | 6      | 12                     |
| 1904                | 70.6        | 99      | 34     | 4.68          | 9.19     | 1.92  | 12          | 11            | 8      | 13                     |
| 1905                | 72.6        | 99      | 39     | 4.87          | 9.78     | 2.49  | 10          | 12            | 9      | 15                     |
| 1906                | 71.3        | 95      | 38     | 4.31          | 8.98     | 1.41  | 12          | 13            | 6      | 10                     |
| 1907                | 71.5        | 96      | 34     | 3.84          | 9.46     | 1.01  | 15          | 12            | 4      | 10                     |
| 1908                | 73.9        | 104     | 39     | 4.81          | 9.57     | 2.15  | 14          | 12            | 5      | 11                     |
| 1909                | 69.7        | 98      | 34     | 2.14          | 4.50     | 0.75  | 16          | 11            | 4      | 7                      |
| 1910                | 72.8        | 99      | 41     | 2.42          | 5.15     | 0.45  | 16          | 11            | 4      | 7                      |
| 1911                | 73.7        | 105     | 36     | 2.81          | 7.41     | 0.90  | 16          | 11            | 4      | 8                      |
| 1912                | 71.3        | 100     | 36     | 5.29          | 12.65    | 1.04  | 12          | 11            | 8      | 11                     |
| 1913                | 71.8        | 101     | 40     | 4.16          | 8.00     | 0.82  | 15          | 10            | 6      | 11                     |
| 1914                | 71.3        | 101     | 38     | 4.19          | 10.29    | 1.10  | 12          | 11            | 8      | 12                     |
| 1915                | 70.7        | 98      | 40     | 5.28          | 12.30    | 1.82  | 10          | 13            | 8      | 15                     |
| 1916                | 74.3        | 98      | 41     | 4.45          | 12.41    | 0.39  | 14          | 10            | 7      | 10                     |
| 1917                | 72.1        | 105     | 40     | 4.33          | 9.76     | 1.90  | 12          | 12            | 7      | 13                     |
| 1918                | 70.1        | 99      | 35     | 3.05          | 9.96     | 0.77  | 16          | 10            | 5      | 9                      |
| 1919                | 72.6        | 104     | 34     | 5.90          | 14.58    | 1.70  | 16          | 8             | 7      | 11                     |
| 1920                | 69.5        | 96      | 33     | 4.37          | 10.70    | 1.27  | 15          | 10            | 6      | 11                     |
| 1921                | 75.9        | 104     | 45     | 4.13          | 9.19     | 1.23  | 19          | 9             | 3      | 10                     |
| 1922                | 71.9        | 98      | 38     | 3.68          | 7.58     | 1.45  | 14          | 10            | 7      | 9                      |
| 1923                | 71.0        | 100     | 32     | 4.24          | 9.86     | 0.92  | 15          | 9             | 7      | 11                     |
| 1924                | 69.7        | 97      | 34     | 3.42          | 7.12     | 0.71  | 17          | 10            | 4      | 9                      |
| 1925                | 70.5        | 101     | 32     | 5.57          | 14.95    | 1.54  | 13          | 11            | 7      | 12                     |
| 1926                | 71.8        | 105     | 35     | 3.82          | 10.63    | 1.14  | 15          | 9             | 7      | 10                     |
| 1927                | 71.7        | 100     | 29     | 4.97          | 11.82    | 1.81  | 14          | 11            | 6      | 12                     |
| 1928                | 72.8        | 96      | 40     | 5.44          | 11.81    | 2.37  | 16          | 9             | 5      | 13                     |
| 1929                | 71.8        | 99      | 33     | 2.81          | 6.97     | 0.19  | 18          | 9             | 4      | 8                      |
| 1930                | 73.0        | 106     | 33     | 2.23          | 6.46     | 0.17  | 19          | 5             | 4      | 7                      |
| 1931                | 75.2        | 105     | 39     | 5.28          | 13.28    | 1.81  | 15          | 10            | 6      | 12                     |
| Normal and Extremes | 72.0        | 107     | 29     | 4.29          | 15.59    | 0.17  | 14          | 11            | 6      | 11                     |



## Climatological Data for July, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                  |                |                 |                 | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|------------------|----------------|-----------------|-----------------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest          | Date           | Lowest          | Date            | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                  |                |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 19                      | 75.6                         | .....                     | 97               | 1              | 57              | 12              | 30                       | 8.92  | +4.14                     | 2.89                 | 0                         | 14                           | 15    | 5          | 10                           | e.        | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 74.4                         | +3.6                      | 98               | 1              | 48              | 12              | 33                       | 4.36  | +0.82                     | 1.61                 | 0                         | 11                           | 20    | 9          | 2                            | w.        | F. E. Rooney.               |
| Arendtsville       | Adams        | 700             | 9                       | 77.7 <sup>a</sup>            | .....                     | 101 <sup>a</sup> | 1              | 55 <sup>a</sup> | 11 <sup>a</sup> | 41 <sup>a</sup>          | 6.08  | .....                     | 1.35                 | 0                         | 14                           | 21    | 7          | 3                            | nw.       | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | .....                   | 76.5 <sup>a</sup>            | .....                     | 98 <sup>a</sup>  | 29             | 48 <sup>a</sup> | 27              | 45 <sup>a</sup>          | 5.69  | .....                     | 1.25                 | 0                         | 15                           | 15    | 13         | 3                            | nw.       | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 23                      | 73.1                         | -0.1                      | 99               | 1              | 48              | 12              | 36                       | 4.53  | +0.77                     | 2.08                 | 0                         | 13                           | 8     | 13         | 10                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 77.9                         | +3.3                      | 98               | 1              | 59              | 13              | 30                       | 6.22  | +1.63                     | 3.06                 | 0                         | 17                           | 16    | 2          | 13                           | sw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 78.7                         | +3.9                      | 102              | 1 <sup>†</sup> | 52              | 12              | 38                       | 6.27  | +2.43                     | 2.48                 | 0                         | 13                           | 19    | 6          | 5                            | nw.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 77.7                         | +4.4                      | 103              | 1              | 52              | 12              | 38                       | 4.43  | +0.79                     | 1.24                 | 0                         | 12                           | 22    | 6          | 3                            | .....     | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 71.0                         | -0.2                      | 100              | 1              | 48              | 13              | 45                       | 13.28 | +9.43                     | 5.46                 | 0                         | 12                           | 18    | 8          | 5                            | .....     | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 78.8                         | +4.5                      | 102              | 1              | 54              | 12              | 35                       | 7.95  | +4.39                     | 3.04                 | 0                         | 16                           | 14    | 15         | 2                            | sw.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 74.0                         | +2.6                      | 103              | 1              | 45              | 13              | 46                       | 6.16  | +1.98                     | 1.65                 | 0                         | 10                           | 16    | 11         | 4                            | nw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 77.2                         | +2.6                      | 98               | 1              | 58              | 13              | 32                       | 7.80  | +2.80                     | 3.23                 | 0                         | 12                           | 18    | 7          | 6                            | sw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 74.4                         | +2.0                      | 96               | 1              | 53              | 12              | 31                       | 7.25  | +2.80                     | 3.53                 | 0                         | 12                           | 20    | 4          | 7                            | nw.       | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 72.2                         | +2.6                      | 96               | 2              | 48              | 12              | 33                       | 7.46  | +3.13                     | 1.14                 | 0                         | 15                           | 12    | 16         | 3                            | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 76.6                         | +2.5                      | 96               | 1 <sup>†</sup> | 57              | 12              | 31                       | 5.96  | +1.63                     | 2.09                 | 0                         | 10                           | 17    | 7          | 7                            | s.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 72.2                         | +3.6                      | 94               | 1              | 54              | 12              | 22                       | 5.92  | +1.16                     | 2.24                 | 0                         | 16                           | 7     | 13         | 11                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 77.2                         | +3.5                      | 98               | 1              | 58              | 12              | 31                       | 7.14  | +2.80                     | 2.31                 | 0                         | 13                           | 16    | 11         | 4                            | w.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 58                      | 78.0                         | +3.8                      | 98               | 1              | 57              | 12              | 31                       | 3.78  | 0.00                      | 0.99                 | 0                         | 14                           | 18    | 7          | 6                            | sw.       | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 27                      | 73.4                         | +3.3                      | 96               | 1              | 46              | 22 <sup>†</sup> | 38                       | 3.84  | -1.16                     | 1.49                 | 0                         | 14                           | 19    | 6          | 6                            | w.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 68.8                         | .....                     | 88               | 1              | 46              | 12 <sup>†</sup> | 34                       | 5.98  | +0.96                     | 1.71                 | 0                         | 13                           | 21    | 5          | 5                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      | 76.8                         | +3.5                      | 101              | 1              | 55              | 13 <sup>†</sup> | 35                       | 7.12  | +2.20                     | 3.11                 | 0                         | 13                           | 11    | 15         | 5                            | nw.       | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 79.0                         | +3.6                      | 100              | 1              | 57              | 11              | 33                       | 3.07  | -0.18                     | 0.70                 | 0                         | 18                           | 16    | 7          | 8                            | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 77.9                         | +3.1                      | 100              | 1              | 60              | 12              | 26                       | 3.89  | +0.06                     | 1.03                 | 0                         | 14                           | 9     | 15         | 7                            | w.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 13                      | 73.0                         | +2.6                      | 96               | 1              | 50              | 12 <sup>†</sup> | 40                       | 5.22  | +1.32                     | 1.18                 | 0                         | 12                           | 14    | 12         | 5                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 81.5                         | +5.7                      | 102              | 30             | 64              | 13 <sup>†</sup> | 29                       | 3.26  | -0.87                     | 0.82                 | 0                         | 12                           | 15    | 12         | 4                            | .....     | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 75.8                         | +3.6                      | 101              | 1              | 49              | 12              | 38                       | 5.39  | +1.42                     | 0.90                 | 0                         | 11                           | 15    | 9          | 7                            | e.        | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 78.0                         | +5.5                      | 105              | 2              | 48              | 26              | 48                       | 4.39  | +1.39                     | 1.25                 | 0                         | 16                           | 11    | 7          | 13                           | .....     | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 75.5                         | +1.8                      | 100              | 1              | 54              | 26 <sup>†</sup> | 41                       | 5.73  | +1.80                     | 2.69                 | 0                         | 8                            | 21    | 8          | 4                            | w.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 73.4                         | +3.3                      | 100              | 1              | 47              | 13              | 39                       | 6.87  | +2.85                     | 1.73                 | 0                         | 14                           | 12    | 16         | 3                            | .....     | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 47                      | 77.0                         | +3.2                      | 102              | 1              | 58              | 12 <sup>†</sup> | 31                       | 7.51  | +3.13                     | 2.33                 | 0                         | 14                           | 17    | 7          | 7                            | w.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 55                      | 77.8                         | +4.5                      | 104              | 1              | 52              | 12              | 36                       | 2.73  | -1.26                     | 0.73                 | 0                         | 12                           | 12    | 11         | 8                            | sw.       | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 77.6                         | +4.3                      | 105              | 1              | 52              | 12              | 37                       | 6.50  | +2.45                     | 1.94                 | 0                         | 19                           | 9     | 20         | 2                            | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 75.2                         | +3.4                      | 104              | 1              | 42              | 12              | 40                       | 7.46  | +2.18                     | 2.60                 | 0                         | 13                           | 21    | 7          | 3                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 81.6 <sup>a</sup>            | .....                     | 98 <sup>a</sup>  | 1 <sup>†</sup> | 60 <sup>a</sup> | 27              | 35 <sup>a</sup>          | 4.10  | .....                     | 2.93                 | 0                         | 4                            | ..... | .....      | .....                        | .....     | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 74.9                         | +2.7                      | 103              | 1              | 50              | 12 <sup>†</sup> | 39                       | 5.93  | +1.04                     | 2.35                 | 0                         | 8                            | 21    | 1          | 9                            | .....     | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 27                      | 76.4                         | +3.5                      | 102              | 1              | 51              | 12              | 38                       | 4.09  | -0.38                     | 1.33                 | 0                         | 13                           | 18    | 5          | 8                            | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 70.6                         | +2.9                      | 92               | 1 <sup>†</sup> | 50              | 4 <sup>†</sup>  | 32                       | 6.42  | +2.32                     | 2.10                 | 0                         | 12                           | 14    | 11         | 6                            | w.        | Silas Jarger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 67.0                         | +1.3                      | 87               | 1              | 48              | 11              | 26                       | 6.47  | +1.30                     | 2.00                 | 0                         | 12                           | 18    | 3          | 10                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 72.6                         | +3.0                      | 99               | 1              | 48              | 12 <sup>†</sup> | 36                       | 4.13  | -0.62                     | 1.06                 | 0                         | 9                            | 20    | 6          | 5                            | w.        | H. O. Hacker.               |
| Narberth           | Montgomery   | 300             | 12                      | 76.0                         | +2.1                      | 97               | 1              | 58              | 13              | 34                       | 8.15  | +3.40                     | 3.13                 | 0                         | 11                           | 21    | 4          | 6                            | se.       | Charles Decker.             |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 75.4                         | .....                     | 97               | 1              | 53              | 12              | 34                       | 5.62  | +1.31                     | 1.94                 | 0                         | 11                           | 17    | 5          | 8                            | sw.       | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 13                      | 75.4                         | .....                     | 97               | 1              | 53              | 12              | 34                       | 5.62  | +1.31                     | 1.94                 | 0                         | 11                           | 17    | 5          | 8                            | sw.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 60                      | 79.8                         | +3.6                      | 98               | 1              | 67              | 4               | 24                       | 7.99  | +3.84                     | 2.99                 | 0                         | 11                           | 9     | 13         | 9                            | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn   | Philadelphia | 113             | 7                       | 80.0                         | .....                     | 99               | 1              | 67              | 3 <sup>†</sup>  | 26                       | 9.65  | .....                     | 3.41                 | 0                         | 11                           | 11    | 12         | 8                            | .....     | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 78.4                         | +2.7                      | 96               | 1              | 65              | 3 <sup>†</sup>  | 24                       | 6.57  | +1.65                     | 3.13                 | 0                         | 9                            | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 21                      | 79.6                         | +4.7                      | 99               | 1 <sup>†</sup> | 58              | 13              | 33                       | 8.58  | +3.68                     | 2.20                 | 0                         | 12                           | 17    | 13         | 1                            | s.        | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 46                      | 75.8                         | +3.3                      | 97               | 1              | 54              | 12              | 35                       | 8.19  | +3.23                     | 3.42                 | 0                         | 15                           | 16    | 5          | 10                           | nw.       | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 78.0                         | +2.5                      | 99               | 1              | 61              | 12              | 28                       | 4.55  | +0.29                     | 2.07                 | 0                         | 13                           | 8     | 13         | 9                            | nw.       | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 37                      | 75.0                         | +3.3                      | 97               | 1              | 54              | 13              | 32                       | 8.74  | +4.71                     | 3.01                 | 0                         | 13                           | 5     | 19         | 7                            | sw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 41                      | 76.1                         | -2.9                      | 101              | 1              | 52              | 12              | 36                       | 3.28  | -0.84                     | 1.02                 | 0                         | 9                            | 14    | 12         | 5                            | w.        | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 35                      | 78.7                         | +2.8                      | 99               | 2              | 59              | 13              | 29                       | 9.18  | +4.82                     | 4.38                 | 0                         | 12                           | 14    | 11         | 6                            | s.        | W. S. Guiles.               |
| State College      | Center       | 1,217           | 47                      | 74.9                         | +4.4                      | 98               | 1              | 52              | 26              | 38                       | 4.20  | +0.37                     | 1.01                 | 0                         | 13                           | 17    | 11         | 3                            | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 17                      | 73.8                         | +2.6                      | 97               | 1              | 52              | 13              | 39                       | 8.05  | +2.88                     | 2.00                 | 0                         | 14                           | 16    | 5          | 10                           | w.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 37                      | 72.8                         | +2.5                      | 95               | 1 <sup>†</sup> | 50              | 13 <sup>†</sup> | 33                       | 6.22  | +2.46                     | 1.50                 | 0                         | 15                           | 7     | 17         | 7                            | w.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 61                      | 71.9                         | +3.2                      | 99               | 1              | 44              | 13              | 44                       | 3.09  | -0.66                     | 0.71                 | 0                         | 13                           | 16    | 12         | 3                            | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 82                      | 76.8                         | +2.5                      | 85               | 1              | 61              | 13              | 25                       | 9.16  | +4.32                     | 4.35                 | 0                         | 9                            | 19    | 8          | 4                            | s.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 45                      | 76.2                         | +3.0                      | 102              | 1              | 52              | 13              | 35                       | 3.60  | -0.29                     | 1.08                 | 0                         | 13                           | 18    | 4          | 9                            | nw.       | Miss Veronica E. April.     |
| York               | York         | 400             | 43                      | 78.0                         | +3.8                      | 101              | 29             | 55              | 11 <sup>†</sup> | 37                       | 3.70  | -0.54                     | 1.82                 | 0                         | 14                           | 15    | 11         | 5                            | w.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                  |                |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 39                      | 75.7 <sup>a</sup>            | +2.1                      | 97 <sup>a</sup>  | 2              | 51 <sup>a</sup> | 12              | 35 <sup>a</sup>          | 2.62  | -1.15                     | 1.19                 | 0                         | 12                           | 8     | 16         | 7                            | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 71.4                         | +2.7                      | 100              | 2              | 44              | 12              | 43                       | 5.35  | +1.74                     | 1.40                 | 0                         | 14                           | 7     | 10         | 14                           | sw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 70.8 <sup>a</sup>            | +3.1                      | 98 <sup>a</sup>  | 3              | 41 <sup>a</sup> | 13              | 44 <sup>a</sup>          | 4.60  | +0.30                     | 1.75                 | 0                         | 11                           | 17    | 7          | 7                            | .....     | John Fawcett.               |



Day of month

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| Stations           | Drainage Basin    | Day of month |      |     |      |      |      |     |   |   |      |      |      |      |     |     |      |      |      |      |      |      |      |      |     |     |     |    |     |     |     |     | Total |      |
|--------------------|-------------------|--------------|------|-----|------|------|------|-----|---|---|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|----|-----|-----|-----|-----|-------|------|
|                    |                   | 1            | 2    | 3   | 4    | 5    | 6    | 7   | 8 | 9 | 10   | 11   | 12   | 13   | 14  | 15  | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24  | 25  | 26  | 27 | 28  | 29  | 30  | 31  |       |      |
| Ohio Drainage.     |                   |              |      |     |      |      |      |     |   |   |      |      |      |      |     |     |      |      |      |      |      |      |      |      |     |     |     |    |     |     |     |     |       |      |
| Beaver Dam\|\|\| | Ohio.....         |              | .04  | .16 |      |      | .01  |     |   |   | T.   | .02  | .01  |      |     |     | .45  |      | .12  |      | .17  | .14  | 1.05 |      |     | .09 |     |    |     |     |     | .36 | 2.62  |      |
| Beaver Falls\|\|\| | Beaver.....       |              | T.   | T.  |      | .02  | .11  |     |   |   | T.   | .32  | .13  | T.   |     |     | .08  | T.   | .05  |      | .06  | .15  | 1.22 |      |     | T.  |     |    |     |     | T.  | .07 | 2.21  |      |
| Bradford.....      | Allegheny.....    |              | .40  |     |      |      | .04  | .06 |   |   | .52  |      |      |      | .32 | .04 |      | .62  | .02  |      | .77  | 1.40 |      |      | .02 | .17 |     |    |     | .45 | .52 |     | 5.35  |      |
| Brookville.....    | do.....           |              |      | .49 |      |      |      |     |   |   | .10  | .43  |      |      |     |     | .09  | 1.75 |      |      | .10  | .49  | .63  | .35  |     | .08 |     |    |     | .09 | T.  |     | 4.60  |      |
| Butler.....        | Ohio.....         |              | .34  |     |      |      |      |     |   |   | .17  |      |      |      |     |     | .08  | 1.09 |      |      | .82  | .39  | .59  |      |     |     |     |    |     |     |     |     | 3.48  |      |
| Chambersville..... | Allegheny.....    |              | .14  | .08 |      |      |      |     |   |   | .63  | .05  |      |      |     |     | .01  |      |      | 1.60 |      | .01  | .26  | .12  | .03 |     |     |    |     | .16 | .03 | .02 | 4.14  |      |
| Clairton.....      | Monongahela.....  | T.           | .07  |     |      |      |      |     |   |   | .32  |      |      |      | T.  | .20 | .02  |      |      |      | .50  | 1.25 | .42  |      | .01 |     |     |    |     | T.  | .12 |     | 2.91  |      |
| Claysville.....    | Ohio.....         |              | 1.83 | .02 |      | .01  |      |     |   |   | .20  |      |      |      | T.  | .06 | T.   | .14  | .02  |      | .10  | 1.54 |      | .34  |     |     |     |    |     | T.  |     | .05 | 4.31  |      |
| Clymer\|\|\| | Conemaugh.....    | .80          | .18  |     |      |      |      |     |   |   | .52  | .10  |      |      |     |     | 1.25 | T.   | T.   | T.   | 1.70 | .20  |      |      |     |     | T.  |    | .20 |     |     |     | 4.95  |      |
| Confluence\|\|\| | Youghiogheny..... |              | 1.90 |     |      | .16  | .15  |     |   |   | 1.45 | .43  |      |      |     |     | 1.10 | .05  |      |      | .18  | .15  | .10  | .20  |     |     |     |    |     | .40 | .10 | .28 | 6.25  |      |
| Corry.....         | Allegheny.....    |              |      |     |      | .47  |      |     |   |   | .20  |      |      | 1.00 | .90 | .37 |      | .12  | .40  | .20  | .20  | .15  |      |      |     |     |     |    |     | .40 | .52 |     | 4.93  |      |
| Coudersport.....   | Allegheny.....    |              | .75  | .48 |      | .02  |      |     |   |   | .95  |      |      | .12  |     |     |      | .12  |      | .56  | 1.08 | 1.36 | .02  | .03  |     |     |     |    |     | .60 |     |     | 6.09  |      |
| Derry.....         | Conemaugh.....    |              |      |     |      |      |      |     |   |   |      |      |      |      |     |     |      |      |      |      |      |      |      |      |     |     |     |    |     |     |     |     |       |      |
| Donora\|\|\| | Monongahela.....  |              | 1.30 |     | T.   | T.   |      |     |   |   | .33  |      |      |      |     | T.  |      |      | .38  |      | .47  | .10  | .59  | .16  |     | .27 |     |    |     |     |     | .42 | 4.02  |      |
| Ebensburg.....     | Conemaugh.....    | .37          | .72  | .10 | .30  |      |      |     |   |   | .04  | .77  |      |      |     |     | .30  | .15  | .30  |      |      | .25  | .03  | .02  |     |     |     |    |     | .02 |     | .14 | 8.51  |      |
| Elk Lick.....      | Youghiogheny..... |              | 2.55 |     |      | .22  |      |     |   |   | .90  | 1.00 |      |      |     |     | .35  | .30  |      |      |      | .45  | .32  | .04  | .12 |     |     |    |     | .15 |     | .15 | 6.55  |      |
| Falls Creek.....   | Allegheny.....    |              | .67  | .19 |      |      |      |     |   |   | .42  |      |      |      |     | .08 |      | .41  | .95  |      | .51  | .79  |      | .10  |     |     |     |    |     | .65 |     |     | 4.92  |      |
| Franklin\|\|\| | Allegheny.....    |              |      |     |      | .45  |      |     |   |   | .10  | .35  |      |      | .09 |     |      | .82  |      | .05  | .12  | .50  | .78  | .08  |     |     |     |    |     |     |     |     | 3.34  |      |
| Freeport\|\|\| | do.....           |              | .18  | .15 |      | .03  |      |     |   |   | .13  | .22  |      |      |     |     | .40  | .01  | .34  |      |      | .17  | 1.10 | .04  |     | T.  |     |    |     |     |     | .29 | 3.06  |      |
| Greensboro.....    | Monongahela.....  |              |      | .86 |      |      | .24  | .92 |   |   | .16  | .11  | 1.12 |      |     |     | .10  | .41  | .51  |      |      | .55  | .31  | .30  | .57 | .03 |     |    |     |     |     | .09 | 6.27  |      |
| Greensburg.....    | Youghiogheny..... | T.           | .07  | .06 | T.   |      | T.   |     |   |   | .33  |      |      |      | T.  | T.  | .60  | .02  | .01  | T.   | .28  | .54  | .26  | .07  | T.  |     |     |    |     | T.  | .07 |     | 2.31  |      |
| Greenville.....    | Beaver.....       |              |      |     |      | .76  |      |     |   |   |      |      |      |      |     | .39 |      |      | .38  |      | .09  | .28  | .82  |      |     |     |     |    |     | T.  |     |     | 2.72  |      |
| Grove City.....    | do.....           | T.           |      |     | .12  | .65  | .05  |     |   |   | .74  | .01  |      | T.   |     | .09 | .09  |      | .04  | T.   | .22  | .56  | .12  |      |     |     |     |    |     | T.  |     |     | 3.69  |      |
| Herr's Isl. Dam\|\|\| | Ohio.....         |              | .08  | .55 |      | .08  |      |     |   |   | .08  | .29  |      |      |     |     | .06  | .07  | .12  |      | 1.12 | .23  | 1.53 | T.   |     |     |     |    |     |     | T.  |     | 4.21  |      |
| Ingram.....        | Ohio.....         | .03          | .90  | .14 |      | .16  |      |     |   |   | .33  | T.   |      |      |     | .10 | T.   |      | .03  | 2.35 | .33  | 1.11 | .06  |      | T.  |     |     |    |     |     | T.  | .05 | 5.59  |      |
| Irwin.....         | Youghiogheny..... |              | T.   | .31 |      |      |      |     |   |   | .42  |      |      |      |     |     | .40  |      | T.   |      | .62  | .68  | .29  | .08  | T.  |     |     |    |     |     | T.  | .05 | 2.85  |      |
| Johnstown.....     | Conemaugh.....    | .08          | .84  |     | .21  |      | .02  |     |   |   | .03  | 1.51 |      |      |     |     | .35  |      |      | 1.24 |      | .20  | .13  | .03  |     |     |     |    |     |     | .01 | .75 | 5.40  |      |
| Kregar\|\|\| | Youghiogheny..... | T.           | .02  |     | T.   | .02  | .23  |     |   |   | .16  | .90  | T.   |      |     | .42 | .68  | .24  |      | .10  | .69  | .16  | 1.36 | .30  | .11 |     |     |    |     |     | T.  | .01 | 5.40  |      |
| Lake Lynn\|\|\| | Monongahela.....  |              | 1.50 |     |      | .34  | .96  |     |   |   | .09  | .66  |      |      |     |     | .78  |      | .12  |      | .20  | .28  | .35  | .02  |     |     |     |    |     |     | T.  | .15 | 5.45  |      |
| Linesville\|\|\| | Beaver.....       |              |      |     |      | 1.50 |      |     |   |   | .09  |      |      |      |     |     | .90  |      |      | .09  |      | .04  | .45  | .05  | T.  | .08 |     |    |     |     | T.  |     | 3.11  |      |
| Lock No. 2\|\|\| | Ohio.....         |              | .19  | .47 |      | .08  |      |     |   |   | .15  | .15  |      |      | T.  |     | .37  |      | .07  |      | .83  | .34  | 1.14 | .01  |     |     |     |    |     |     | T.  | .01 | 3.81  |      |
| Lock No. 4\|\|\| | Monongahela.....  |              |      | .24 |      |      |      |     |   |   | .06  | .20  |      |      |     |     | .06  |      |      | .18  | .01  | T.   | .30  | .74  | .52 |     | .28 |    |     |     | T.  | .41 | 3.00  |      |
| Lycippus.....      | Conemaugh.....    |              | .05  |     |      |      |      |     |   |   | .41  |      |      |      |     |     | .80  |      | .20  |      | .83  | .32  | .31  | .04  | T.  |     |     |    |     |     |     |     | 2.96  |      |
| McKeesport\|\|\| | Monongahela.....  |              |      | .03 |      |      |      |     |   |   | .03  | .19  |      |      |     |     | T.   | .11  | T.   |      | .62  | .68  | .29  | .08  | T.  |     |     |    |     |     | T.  |     | 1.84  |      |
| Meadville.....     | Allegheny.....    |              |      |     |      | 1.15 |      |     |   |   | .45  |      |      |      |     | .29 |      |      | .55  |      | .09  | .15  | .11  |      | .03 |     |     |    |     |     | T.  |     | 2.82  |      |
| Mount Lebanon..... | Ohio.....         | .23          | .04  | .35 |      | T.   |      |     |   |   | .27  |      |      |      |     | .04 |      |      | .05  | .06  | 1.17 | 2.25 | .06  |      |     |     |     |    |     |     | T.  | .02 | 4.54  |      |
| Natrona\|\|\| | Allegheny.....    |              | .65  | .11 |      |      |      |     |   |   | .15  | .26  |      |      |     |     | .17  |      | .65  |      | .09  | 1.76 | .02  |      |     |     |     |    |     |     | .52 |     | 4.38  |      |
| New Castle\|\|\| | Beaver.....       |              |      |     |      | .19  | .01  |     |   |   | .16  |      |      |      |     |     | .01  |      | .50  |      | .28  | .08  | .51  | .05  |     |     |     |    |     |     |     | .02 | 1.81  |      |
| Newell.....        | Monongahela.....  |              |      | .30 |      |      |      |     |   |   | .20  |      |      |      |     |     | .33  | .23  | .02  | .30  | .32  | .43  |      |      |     |     |     |    |     |     | .02 | .15 | 2.30  |      |
| Parkers Landing\|\|\| | Allegheny.....    |              | .46  | .47 | T.   | .88  | .07  |     |   |   | .16  | .07  |      |      |     | .17 |      |      | .98  |      | .02  | .86  | 1.26 | .23  | .10 |     |     |    |     |     |     |     | 5.73  |      |
| Pennline\|\|\| | Beaver.....       |              |      |     |      | 1.21 |      |     |   |   | .08  |      |      |      |     | .35 |      |      | .35  |      |      | T.   | .44  | .40  |     |     |     |    |     |     | T.  |     | 2.83  |      |
| Pittsburgh***      | Ohio.....         | .07          | 1.24 |     |      | .11  |      |     |   |   | .31  |      |      |      |     | .07 | .04  |      | .04  |      | .09  | 1.53 | .05  | 1.78 | .06 |     | T.  |    |     |     | T.  | .01 | 5.36  |      |
| Punxsutawney\|\|\| | Allegheny.....    |              |      | .94 |      | .18  |      |     |   |   | .12  |      |      |      |     | .54 |      |      | 1.21 |      | .62  | .68  | .29  | .08  |     |     |     |    |     |     | .24 |     | 5.48  |      |
| Ridgway.....       | do.....           |              | .22  | .22 |      |      |      |     |   |   | .67  |      |      | .02  |     |     |      |      | .02  | .82  | .02  | .35  | .48  | .51  | .14 |     |     |    |     |     | .47 |     | 3.94  |      |
| Saltsburg\|\|\| | Conemaugh.....    |              | .04  | T.  |      |      |      |     |   |   | .24  | .11  |      |      |     |     | .05  | .09  | .02  | .26  | .02  | 1.71 |      |      |     |     |     |    |     |     |     | T.  | .28   | 2.82 |
| Sharon\|\|\| | Beaver.....       |              | .29  |     |      | T.   | .50  |     |   |   |      |      |      |      |     | .21 |      | .22  |      | T.   | .17  | .54  |      |      |     |     |     |    |     |     | T.  |     | 1.93  |      |
| Somerset.....      | Youghiogheny..... | .01          | T.   | .05 | .05  |      | .23  | .02 |   |   | .16  | 1.62 |      |      |     | .19 | .85  | .04  | 1.29 |      | .12  | .20  | .17  | .26  | .16 | .05 |     |    |     |     | T.  | .06 | 5.52  |      |
| Springdale\|\|\| | Allegheny.....    |              | .17  | .06 |      |      |      |     |   |   | .14  | T.   |      |      |     | .30 | .39  | .40  |      |      | .01  | .37  | 1.78 |      |     |     |     |    |     |     |     |     | 3.62  |      |
| Uniontown.....     | Monongahela.....  |              | T.   | .22 |      | .68  |      | .05 |   |   | .46  | .04  |      |      |     |     | .26  |      | .02  | .36  | .23  | .01  | .04  | .09  |     |     |     |    |     |     | .03 | .18 | 2.67  |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |      | .08 |      |      |      |     |   |   | .33  |      |      |      |     |     | .55  | .03  | .10  |      | .62  | .50  | .20  | .03  |     |     |     |    |     |     | T.  | .07 | 2.51  |      |
| Vandergrift\|\|\| | Conemaugh.....    | .49          | .17  |     |      |      |      |     |   |   | .46  |      |      |      |     | .09 | .03  |      | .06  | 1.77 | .27  |      |      |      |     |     |     |    |     |     | .40 | .42 | 5.41  |      |
| Warren.....        | Allegheny.....    |              |      | .02 |      | .26  |      |     |   |   | .98  |      |      | .15  |     | .15 | .03  | .03  | .82  |      | .65  | 1.22 |      |      | .28 |     |     |    |     |     |     |     | 2.17  |      |
| Waynesburg.....    | Monongahela.....  |              | .05  |     |      |      |      |     |   |   | .30  |      |      |      |     | .52 |      |      | .62  |      | .10  | .35  | .04  |      |     |     |     |    |     |     |     |     | 3.63  |      |
| Westford\|\|\| | Beaver.....       |              |      |     | 2.00 |      |      |     |   |   |      |      |      |      |     |     |      |      |      |      | .10  | .35  | .04  |      |     |     |     |    |     |     |     |     | 2.66  |      |
| West Newton\|\|\| | Youghiogheny..... |              | .48  |     |      |      |      |     |   |   | .10  | .18  |      |      |     |     |      |      |      |      | .73  | .37  | .44  | .12  |     | .02 |     |    |     |     |     |     |       |      |
| Zelienople.....    | Ohio.....         |              |      |     |      |      |      |     |   |   |      |      |      |      |     |     |      |      |      |      |      |      |      |      |     |     |     |    |     |     |     |     |       |      |
| Lake Drainage.     |                   |              |      |     |      |      |      |     |   |   |      |      |      |      |     |     |      |      |      |      |      |      |      |      |     |     |     |    |     |     |     |     |       |      |
| Erie***            | Lake Erie.....    |              |      |     |      | .60  | 1.07 |     |   |   | 1.20 | .09  |      | .12  |     | .80 |      | .35  | .54  | .22  | .10  | .10  | .02  |      | T.  |     |     |    |     | .52 | .02 |     | 5.75  |      |
| Genesee.....       | do.....           |              | 1.75 | .87 |      |      |      |     |   |   | .60  | .12  |      |      |     |     |      |      |      |      | 1.50 | 1.60 | .20  | .14  | T.  | .16 | T.  |    |     | .16 | T.  |     | 7.10  |      |



Daily Temperatures for July, 1931

| Stations           | 1       | 2   | 3   | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27  | 28 | 29 | 30 | 31 | Mean  |       |      |
|--------------------|---------|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|-------|-------|------|
| Allentown.....     | Maximum | 97  | 84  | 76  | 84 | 85 | 84 | 84 | 87 | 87 | 74 | 80 | 81 | 85 | 92 | 88 | 85 | 86 | 83 | 83 | 82 | 88 | 83 | 86 | 85 | 82 | 84  | 90 | 94 | 95 | 88 | 84    | 85.4  |      |
|                    | Minimum | 70  | 68  | 67  | 67 | 67 | 67 | 67 | 72 | 72 | 65 | 62 | 57 | 58 | 62 | 66 | 70 | 60 | 66 | 70 | 68 | 70 | 67 | 64 | 61 | 63 | 58  | 59 | 66 | 71 | 72 | 67    | 65.8  |      |
| Altoona.....       | Maximum | 98  | 94  | 84  | 83 | 79 | 85 | 86 | 90 | 85 | 78 | 76 | 81 | 84 | 93 | 85 | 86 | 88 | 83 | 91 | 90 | 82 | 83 | 83 | 85 | 82 | 83  | 91 | 95 | 94 | 90 | 87    | 86.3  |      |
|                    | Minimum | 67  | 69  | 65  | 67 | 67 | 68 | 65 | 60 | 61 | 61 | 55 | 48 | 55 | 63 | 67 | 66 | 64 | 66 | 69 | 67 | 68 | 60 | 59 | 54 | 54 | 51  | 61 | 63 | 64 | 70 | 63    | 62.5  |      |
| Bedford.....       | Maximum |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |       |       |      |
|                    | Minimum |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |       |       |      |
| Bellefonte.....    | Maximum | 99  | 94  | 84  | 84 | 82 | 86 | 84 | 89 | 82 | 68 | 76 | 84 | 83 | 90 | 84 | 84 | 83 | 83 | 94 | 86 | 82 | 81 | 83 | 82 | 80 | 84  | 90 | 91 | 92 | 65 | 61    | 61.3  |      |
|                    | Minimum | 67  | 67  | 66  | 68 | 65 | 68 | 65 | 61 | 62 | 57 | 54 | 48 | 51 | 63 | 62 | 64 | 62 | 67 | 73 | 63 | 60 | 57 | 56 | 51 | 48 | 57  | 61 | 62 | 65 | 61 | 61    | 61.3  |      |
| Brookville.....    | Maximum | 93  | 96  | 98  | 88 | 89 | 84 | 81 | 85 | 88 | 86 | 69 | 76 | 80 | 88 | 91 | 80 | 85 | 84 | 85 | 89 | 88 | 77 | 82 | 81 | 91 | ... | 45 | 53 | 53 | 57 | 59    | 56.0* |      |
|                    | Minimum | 63  | 64  | 64  | 63 | 61 | 58 | 65 | 55 | 50 | 49 | 54 | 43 | 41 | 51 | 56 | 57 | 60 | 59 | 64 | 59 | 65 | 56 | 54 | 49 | 47 | ... | 45 | 53 | 53 | 57 | 59    | 56.0* |      |
| Butler.....        | Maximum | 98  | 100 | 95  | 92 | 94 | 94 | 90 | 87 | 88 | 85 | 77 | 84 | 90 | 93 | 95 | 90 | 93 | 94 | 95 | 86 | 84 | 83 | 85 | 85 | 87 | 90  | 94 | 94 | 90 | 85 | 85.7* |       |      |
|                    | Minimum | 62  | 66  | 60  | 63 | 62 | 64 | 57 | 57 | 52 | 61 | 49 | 44 | 44 | 58 | 61 | 67 | 63 | 67 | 65 | 63 | 61 | 57 | 49 | 62 | 49 | 52  | 49 | 59 | 65 | 70 | 62    | 59.3  |      |
| Carlisle.....      | Maximum | 102 | 102 | 87  | 87 | 84 | 86 | 91 | 96 | 92 | 86 | 84 | 88 | 89 | 98 | 98 | 98 | 96 | 92 | 92 | 92 | 94 | 89 | 89 | 89 | 87 | 87  | 62 | 54 | 58 | 66 | 71    | 68    | 65.6 |
|                    | Minimum | 69  | 70  | 67  | 70 | 67 | 69 | 72 | 63 | 66 | 65 | 54 | 52 | 55 | 63 | 68 | 71 | 71 | 69 | 69 | 72 | 69 | 64 | 64 | 67 | 62 | 54  | 58 | 68 | 66 | 71 | 68    | 65.6  |      |
| Catawissa.....     | Maximum | 103 | 96  | 101 | 90 | 88 | 88 | 78 | 98 | 89 | 81 | 84 | 86 | 90 | 97 | 92 | 92 | 93 | 91 | 96 | 87 | 90 | 90 | 91 | 89 | 90 | 91  | 89 | 90 | 92 | 94 | 98    | 91    | 91.3 |
|                    | Minimum | 68  | 70  | 65  | 60 | 64 | 68 | 68 | 69 | 69 | 66 | 59 | 52 | 54 | 68 | 66 | 65 | 68 | 69 | 74 | 62 | 68 | 61 | 62 | 58 | 54 | 58  | 67 | 68 | 72 | 59 | 64    | 61.5  |      |
| Chambersburg.....  | Maximum | 102 | 94  | 89  | 85 | 85 | 90 | 92 | 95 | 89 | 82 | 86 | 87 | 89 | 99 | 94 | 92 | 92 | 91 | 96 | 93 | 90 | 90 | 90 | 87 | 89 | 91  | 94 | 96 | 98 | 71 | 71    | 66.2  |      |
|                    | Minimum | 69  | 69  | 70  | 69 | 68 | 69 | 71 | 65 | 68 | 64 | 56 | 54 | 59 | 67 | 70 | 71 | 67 | 68 | 69 | 67 | 69 | 64 | 66 | 64 | 66 | 56  | 60 | 66 | 68 | 71 | 71    | 66.2  |      |
| Chambersville..... | Maximum | 96  | 98  | 91  | 88 | 83 | 81 | 85 | 89 | 85 | 74 | 78 | 82 | 89 | 94 | 88 | 89 | 88 | 83 | 92 | 88 | 77 | 82 | 83 | 81 | 81 | 86  | 89 | 90 | 89 | 86 | 86.3  |       |      |
|                    | Minimum | 65  | 65  | 63  | 63 | 63 | 72 | 59 | 54 | 54 | 60 | 49 | 42 | 51 | 60 | 62 | 64 | 61 | 65 | 63 | 66 | 62 | 60 | 59 | 50 | 48 | 44  | 53 | 58 | 60 | 70 | 56    | 58.8  |      |
| Claysville.....    | Maximum | 101 | 101 | 99  | 94 | 93 | 93 | 90 | 93 | 90 | 87 | 75 | 80 | 84 | 91 | 96 | 92 | 94 | 96 | 97 | 85 | 97 | 92 | 75 | 86 | 84 | 86  | 87 | 92 | 94 | 95 | 93    | 91    | 91.7 |
|                    | Minimum | 67  | 69  | 67  | 65 | 69 | 72 | 60 | 59 | 55 | 62 | 49 | 47 | 61 | 67 | 69 | 68 | 69 | 66 | 70 | 72 | 61 | 60 | 62 | 57 | 50 | 50  | 55 | 61 | 65 | 72 | 67    | 62.7  |      |
| Clearfield.....    | Maximum | 103 | 100 | 90  | 90 | 84 | 87 | 89 | 94 | 87 | 75 | 80 | 84 | 91 | 96 | 92 | 90 | 85 | 89 | 97 | 91 | 84 | 82 | 84 | 86 | 84 | 92  | 88 | 90 | 94 | 90 | 85    | 88.8  |      |
|                    | Minimum | 66  | 67  | 63  | 67 | 62 | 68 | 65 | 56 | 56 | 59 | 52 | 48 | 45 | 57 | 64 | 66 | 60 | 65 | 63 | 65 | 62 | 59 | 54 | 55 | 50 | 47  | 52 | 65 | 55 | 65 | 60    | 59.3  |      |
| Coatesville.....   | Maximum | 98  | 85  | 81  | 84 | 85 | 87 | 84 | 91 | 86 | 75 | 83 | 83 | 88 | 94 | 82 | 89 | 90 | 88 | 85 | 85 | 91 | 87 | 88 | 87 | 83 | 87  | 92 | 94 | 95 | 91 | 86    | 87.0  |      |
|                    | Minimum | 70  | 67  | 66  | 66 | 68 | 68 | 73 | 67 | 71 | 66 | 61 | 60 | 58 | 68 | 69 | 70 | 64 | 70 | 70 | 74 | 62 | 66 | 66 | 66 | 65 | 60  | 60 | 72 | 70 | 73 | 68    | 67.5  |      |
| Corry.....         | Maximum | 98  | 101 | 89  | 89 | 84 | 85 | 86 | 87 | 80 | 72 | 77 | 83 | 89 | 90 | 83 | 88 | 88 | 87 | 86 | 80 | 79 | 75 | 72 | 94 | 84 | 92  | 90 | 92 | 94 | 89 | 81    | 85.9  |      |
|                    | Minimum | 68  | 68  | 67  | 65 | 62 | 62 | 59 | 56 | 51 | 57 | 50 | 46 | 53 | 59 | 54 | 64 | 63 | 60 | 59 | 50 | 49 | 45 | 40 | 48 | 47 | 50  | 60 | 62 | 63 | 62 | 59    | 56.7  |      |
| Emporium.....      | Maximum | 95  | 96  | 83  | 86 | 81 | 81 | 83 | 87 | 82 | 72 | 75 | 78 | 83 | 87 | 81 | 82 | 81 | 83 | 87 | 85 | 77 | 78 | 79 | 73 | 78 | 83  | 86 | 86 | 88 | 81 | 80    | 82.5  |      |
|                    | Minimum | 68  | 73  | 70  | 70 | 60 | 70 | 67 | 60 | 55 | 62 | 58 | 48 | 50 | 63 | 63 | 64 | 62 | 68 | 67 | 68 | 64 | 5* | 57 | 55 | 53 | 50  | 60 | 64 | 62 | 70 | 60    | 61.9  |      |
| Erie.....          | Maximum | 91  | 92  | 84  | 83 | 90 | 77 | 81 | 81 | 78 | 72 | 75 | 80 | 85 | 83 | 86 | 82 | 90 | 82 | 92 | 81 | 76 | 81 | 75 | 75 | 79 | 87  | 86 | 91 | 73 | 78 | 76    | 82.5  |      |
|                    | Minimum | 78  | 77  | 74  | 72 | 72 | 69 | 65 | 69 | 62 | 56 | 57 | 57 | 67 | 66 | 66 | 71 | 71 | 68 | 66 | 74 | 65 | 64 | 64 | 59 | 60 | 63  | 75 | 72 | 73 | 70 | 67    | 67.4  |      |
| Franklin.....      | Maximum | 99  | 104 | 94  | 94 | 88 | 81 | 89 | 89 | 85 | 73 | 80 | 88 | 89 | 97 | 85 | 90 | 96 | 90 | 98 | 87 | 75 | 86 | 82 | 83 | 84 | 92  | 92 | 93 | 91 | 88 | 88    | 88.7  |      |
|                    | Minimum | 65  | 70  | 65  | 67 | 62 | 69 | 60 | 58 | 53 | 55 | 52 | 47 | 58 | 61 | 60 | 62 | 63 | 70 | 61 | 68 | 70 | 56 | 58 | 50 | 51 | 51  | 63 | 61 | 62 | 69 | 61    | 60.6  |      |
| Freeland.....      | Maximum | 94  | 85  | 75  | 81 | 82 | 81 | 87 | 82 | 80 | 75 | 74 | 76 | 80 | 86 | 86 | 78 | 82 | 79 | 81 | 76 | 83 | 78 | 82 | 76 | 75 | 79  | 83 | 88 | 89 | 80 | 77    | 80.6  |      |
|                    | Minimum | 72  | 68  | 61  | 63 | 64 | 62 | 69 | 65 | 65 | 61 | 59 | 54 | 61 | 65 | 66 | 63 | 65 | 64 | 66 | 68 | 58 | 60 | 62 | 57 | 65 | 65  | 70 | 69 | 59 | 63 | 7.5   | 82.5  |      |
| Genesee.....       | Maximum | 97  | 98  | 84  | 85 | 80 | 78 | 82 | 86 | 81 | 72 | 79 | 77 | 82 | 83 | 83 | 84 | 82 | 86 | 90 | 84 | 75 | 79 | 79 | 75 | 78 | 84  | 88 | 85 | 85 | 75 | 82.5  |       |      |
|                    | Minimum | 70  | 67  | 65  | 68 | 68 | 68 | 68 | 68 | 68 | 62 | 55 | 50 | 57 | 54 | 44 | 42 | 60 | 55 | 57 | 50 | 62 | 62 | 60 | 59 | 54 | 48  | 45 | 45 | 45 | 45 | 56.3  |       |      |
| Gettysburg.....    | Maximum | 98  | 97  | 85  | 82 | 84 | 88 | 88 | 92 | 88 | 80 | 83 | 84 | 88 | 95 | 91 | 90 | 89 | 87 | 92 | 90 | 89 | 86 | 88 | 87 | 83 | 87  | 92 | 95 | 96 | 94 | 89    | 88.9  |      |
|                    | Minimum | 70  | 71  | 67  | 69 | 68 | 68 | 72 | 66 | 70 | 65 | 58 | 57 | 59 | 69 | 70 | 71 | 69 | 70 | 69 | 64 | 65 | 65 | 65 | 65 | 65 | 61  | 69 | 71 | 72 | 71 | 67.1  |       |      |
| Greensburg.....    | Maximum | 96  | 98  | 90  | 89 | 86 | 88 | 87 | 90 | 85 | 83 | 80 | 84 | 92 | 90 | 87 | 92 | 92 | 84 | 91 | 90 | 79 | 82 | 84 | 83 | 85 | 88  | 91 | 94 | 92 | 93 | 88    | 88.2  |      |
|                    | Minimum | 70  | 70  | 68  | 70 | 70 | 73 | 64 | 62 | 61 | 55 | 45 | 40 | 61 | 68 | 68 | 69 | 67 | 69 | 70 | 69 | 62 | 60 | 62 | 59 | 55 | 53  | 58 | 66 | 72 | 62 | 63.3  |       |      |
| Grove City.....    | Maximum | 95  | 95  | 90  | 88 | 84 | 79 | 82 | 85 | 81 | 77 | 76 | 80 | 85 | 90 | 80 | 87 | 89 | 88 | 88 | 85 | 77 | 80 | 81 | 79 | 81 | 86  | 88 | 90 | 89 | 85 | 84    | 84.6  |      |
|                    | Minimum | 69  | 69  | 65  | 66 | 66 | 68 | 65 | 56 | 59 | 56 | 58 | 48 | 46 | 62 | 60 | 61 | 66 | 63 | 66 | 60 | 58 | 56 | 59 | 59 | 51 | 52  | 60 | 61 | 68 | 70 | 62    | 61.1  |      |
| Hamburg.....       | Maximum | 101 | 98  | 86  | 83 | 83 | 85 | 83 | 88 | 80 | 88 | 83 | 81 | 82 | 87 | 94 | 93 | 93 | 90 | 87 | 84 | 79 | 89 | 89 | 86 | 87 | 85  | 90 | 91 | 94 | 95 | 92    | 88.3  |      |
|                    | Minimum | 66  | 69  | 65  | 66 | 64 | 65 | 70 | 68 | 69 | 65 | 62 | 58 | 55 | 65 | 65 | 90 | 86 | 87 | 90 | 88 | 83 | 88 | 87 | 86 | 87 | 84  | 88 | 91 | 95 | 94 | 90    | 88.7  |      |
| Harrisburg.....    | Maximum | 100 | 86  | 83  | 81 | 85 | 86 | 83 | 91 | 82 | 70 | 82 | 84 | 86 | 95 | 90 | 86 | 87 | 90 | 88 | 83 | 88 | 87 | 86 | 87 | 84 | 88  | 91 | 93 | 94 | 90 | 88    | 87.0  |      |
|                    | Minimum | 74  | 70  | 69  | 69 | 70 | 67 | 71 | 69 | 67 | 65 | 62 | 60 | 60 | 70 | 73 | 74 | 70 | 73 | 74 | 70 | 71 | 71 | 70 | 67 | 67 | 69  | 68 | 62 | 67 | 73 | 73    | 71    | 68.8 |
| Hawley.....        | Maximum | 96  | 93  | 76  | 85 | 85 | 83 | 85 | 82 | 84 | 79 | 79 | 81 | 87 | 90 | 86 | 83 | 87 | 81 | 81 | 81 | 88 | 87 | 86 | 83 | 80 | 84  | 92 | 95 | 93 | 86 | 84    | 85.2  |      |
|                    | Minimum | 62  | 65  | 61  | 64 | 58 | 64 | 68 | 67 | 66 | 63 | 60 | 50 | 50 | 65 | 62 | 63 | 53 | 60 | 66 | 66 | 62 | 57 | 58 | 54 | 50 | 52  | 64 | 63 | 66 | 57 | 60.8  |       |      |
| Huntingdon.....    | Maximum | 101 | 95  | 89  | 86 | 80 | 88 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |       |       |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

AUGUST, 1931.

No. 8

### GENERAL SUMMARY.

The average temperature excess for August was not large, but it accumulated chiefly during the first ten days following a hot July, and the persistent heat became decidedly enervating. The last half of the month was fairly comfortable in the western portion of the State, but the third week was uncomfortably warm in the southeastern counties. The rainfall distribution seems to have been more uneven than usual. In a general way the lighter rainfall occurred in a few northeastern and a few northwestern counties where the drought was severe enough to stunt the growth of crops, and to cut pastures short. In the eastern portion of the State fully one-half of the monthly rainfall occurred from the 9th to the 13th inclusive, but west of the mountains the rains grouped around four dates, namely the 3d, 10th, 19th and 27th. From a crop growing standpoint it was probably more favorable than the average August. A fine crop of corn developed, excepting a few of the driest counties where the ears were small, and the potato crop was reported good in nearly all parts of the State. It was apparent after the middle of the month that the following crops were likely to be better than the average: namely, corn, buckwheat, potatoes, tobacco, apples, peaches, pears, and grapes, while oats, hay, and pasturage were below the average. Peaches generally loaded the trees so heavily that where no thinning was done the fruit was small. There were about the usual number of severe local storms. On the 2d, heavy rains in the Johnstown region destroyed several bridges and flooded hundreds of basements, doing damage that was estimated at upwards of \$125,000. On the 10th a severe thunderstorm passed across the northern portion of Philadelphia, flooding hundreds of basements and a portion of the Broad Street subway. The damage was estimated at more than \$100,000. On the same date a mill in Reading was partly destroyed by lightning, electric service was disrupted, and heavy rains did considerable damage. The total loss was estimated at \$50,000. On the 28th a severe storm between Gettysburg, Pa. and Emmitsburg, Md. was very destructive over a narrow path, suggesting the work of a tornado, but its character could not be positively identified. The damage seems to have been \$10,000 or more.

### TEMPERATURE.

The mean temperature for the State, as deduced from reports

of 91 stations, was 71.1°, which is 1.1° in excess of the normal for August. The highest monthly mean was 78.2° at Holtwood, and the lowest was 64.0° at Gouldsboro. Extremes of temperature ranged from a maximum of 104°, at Holtwood on the 8th to a minimum of 40°, at Genesee on the 22d and also at Ridgway on the 23d. The greatest daily range of temperature was 45°, at Franklin on the 7th and 24th and also at Gordon on the 30th.

### PRECIPITATION.

The average precipitation for the State, as shown by reports from 145 stations, was 4.01 inches, which is 0.16 inch less than normal for the month. The greatest amount for the month was 8.78 inches at Kregar, while Franklin, with 1.30 inches, reported the least. The greatest amount recorded in any 24 consecutive hours was 5.18 inches at Center Hall during the storm of the 9th.

### COMPARATIVE DATA FOR AUGUST

| Year            | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                 | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....       | 69.8        | 100     | 33     | 7.05          | 11.27    | 3.18  | .....       | .....         | .....  | .....                  |
| 1889.....       | 67.4        | 100     | 37     | 3.24          | 7.07     | 0.83  | .....       | .....         | .....  | .....                  |
| 1890.....       | 68.8        | 98      | 34     | 5.76          | 9.65     | 2.58  | 9           | 14            | 8      | 12                     |
| 1891.....       | 69.6        | 99      | 35     | 5.09          | 11.77    | 1.43  | 8           | 12            | 11     | 12                     |
| 1892.....       | 71.4        | 99      | 42     | 3.77          | 7.64     | 1.07  | 14          | 7             | 10     | 9                      |
| 1893.....       | 70.4        | 99      | 30     | 4.50          | 9.99     | 1.68  | 14          | 10            | 7      | 8                      |
| 1894.....       | 69.4        | 98      | 32     | 1.84          | 5.51     | 0.17  | 13          | 12            | 6      | 6                      |
| 1895.....       | 72.3        | 101     | 32     | 3.23          | 6.03     | 0.59  | 15          | 11            | 5      | 9                      |
| 1896.....       | 71.2        | 101     | 35     | 2.22          | 6.53     | 0.45  | 14          | 11            | 6      | 8                      |
| 1897.....       | 67.9        | 97      | 34     | 3.17          | 8.60     | 0.34  | 14          | 11            | 6      | 9                      |
| 1898.....       | 72.3        | 99      | 37     | 6.60          | 11.32    | 3.72  | 11          | 11            | 9      | 12                     |
| 1899.....       | 71.2        | 101     | 38     | 4.01          | 10.09    | 0.07  | 14          | 10            | 7      | 7                      |
| 1900.....       | 75.0        | 103     | 38     | 3.33          | 5.78     | 0.84  | 14          | 12            | 5      | 9                      |
| 1901.....       | 72.0        | 99      | 42     | 6.81          | 13.65    | 2.48  | 10          | 12            | 9      | 11                     |
| 1902.....       | 67.8        | 100     | 34     | 2.62          | 6.44     | 0.51  | 13          | 13            | 5      | 8                      |
| 1903.....       | 67.2        | 99      | 36     | 5.29          | 8.05     | 2.00  | 9           | 12            | 10     | 14                     |
| 1904.....       | 68.0        | 96      | 34     | 4.36          | 9.64     | 1.66  | 15          | 10            | 6      | 9                      |
| 1905.....       | 69.6        | 95      | 36     | 5.71          | 10.83    | 1.92  | 12          | 12            | 7      | 12                     |
| 1906.....       | 73.2        | 96      | 39     | 5.62          | 11.65    | 1.62  | 10          | 12            | 9      | 12                     |
| 1907.....       | 68.0        | 97      | 32     | 2.94          | 6.19     | 0.77  | 16          | 9             | 9      | 10                     |
| 1908.....       | 69.4        | 102     | 30     | 3.22          | 8.06     | 1.22  | 15          | 10            | 6      | 7                      |
| 1909.....       | 69.4        | 100     | 34     | 2.31          | 7.76     | 0.12  | 16          | 9             | 6      | 7                      |
| 1910.....       | 69.8        | 98      | 35     | 2.61          | 6.46     | 0.55  | 14          | 10            | 7      | 6                      |
| 1911.....       | 71.4        | 102     | 36     | 7.63          | 15.14    | 2.60  | 11          | 8             | 12     | 13                     |
| 1912.....       | 67.1        | 93      | 36     | 5.02          | 9.65     | 1.68  | 9           | 12            | 10     | 14                     |
| 1913.....       | 70.4        | 102     | 38     | 2.69          | 10.93    | 0.70  | 17          | 9             | 5      | 8                      |
| 1914.....       | 71.3        | 100     | 34     | 3.85          | 7.20     | 0.64  | 13          | 11            | 7      | 11                     |
| 1915.....       | 68.0        | 99      | 34     | 6.71          | 14.44    | 1.92  | 10          | 11            | 10     | 15                     |
| 1916.....       | 71.9        | 103     | 32     | 2.57          | 7.08     | 0.21  | 17          | 10            | 4      | 8                      |
| 1917.....       | 71.2        | 101     | 38     | 6.69          | 17.50    | 1.06  | 15          | 10            | 6      | 10                     |
| 1918.....       | 73.6        | 108     | 32     | 4.12          | 8.02     | 1.05  | 16          | 10            | 5      | 11                     |
| 1919.....       | 68.2        | 94      | 35     | 5.43          | 12.03    | 2.35  | 13          | 10            | 8      | 12                     |
| 1920.....       | 70.2        | 95      | 37     | 4.66          | 9.29     | 1.93  | 9           | 12            | 10     | 15                     |
| 1921.....       | 68.4        | 97      | 35     | 3.83          | 6.68     | 1.81  | 17          | 8             | 6      | 9                      |
| 1922.....       | 69.1        | 100     | 31     | 3.14          | 8.16     | 1.15  | 15          | 9             | 7      | 10                     |
| 1923.....       | 69.2        | 96      | 30     | 3.10          | 7.30     | 0.59  | 15          | 11            | 5      | 9                      |
| 1924.....       | 70.1        | 102     | 31     | 3.78          | 7.54     | 1.48  | 16          | 10            | 5      | 9                      |
| 1925.....       | 69.7        | 97      | 26     | 2.28          | 5.14     | 0.65  | 18          | 9             | 4      | 7                      |
| 1926.....       | 71.9        | 103     | 32     | 5.69          | 10.04    | 2.95  | 11          | 8             | 12     | 15                     |
| 1927.....       | 65.5        | 92      | 34     | 4.12          | 11.49    | 1.13  | 12          | 10            | 9      | 12                     |
| 1928.....       | 73.4        | 99      | 35     | 4.60          | 10.87    | 1.32  | 13          | 11            | 7      | 12                     |
| 1929.....       | 67.7        | 98      | 31     | 2.52          | 7.20     | 0.20  | 17          | 8             | 6      | 7                      |
| 1930.....       | 70.3        | 108     | 29     | 1.47          | 4.12     | 0.29  | 15          | 10            | 6      | 7                      |
| 1931.....       | 71.1        | 104     | 40     | 4.01          | 8.78     | 1.30  | 11          | 10            | 10     | 12                     |
| Normal and..... | 70.0        | .....   | .....  | 4.17          | .....    | ..... | 13          | 11            | 7      | 10                     |
| Extremes.....   | .....       | 108     | 26     | .....         | 17.50    | 0.07  | .....       | .....         | .....  | .....                  |



## Climatological Data for August, 1931

| Stations              | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |       |                 |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|-----------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|-------|-----------------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                       |                   |                 |                         | Mean                         | Departure from the normal | Highest         | Date  | Lowest          | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage.    |                   |                 |                         |                              |                           |                 |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown.....        | Lehigh.....       | 254             | 19                      | 72.0                         | .....                     | 95              | 3†    | 54              | 25    | 33                       | 3.00  | -1.61                     | 0.99                 | 0                         | 11                           | 18    | 5          | 8                            | ne.       | John A. Frick.              |
| Altoona.....          | Blair.....        | 1,615           | 44                      | 69.4                         | +0.4                      | 90              | 3†    | 49              | 30    | 32                       | 3.32  | -0.01                     | 0.73                 | 0                         | 12                           | 12    | 13         | 6                            | w.        | F. E. Rooney.               |
| Arendtsville.....     | Adams.....        | 700             | 9                       | 74.4                         | .....                     | 101             | 7     | 48              | 30    | 37                       | 2.82  | .....                     | 1.20                 | 0                         | 12                           | 21    | 4          | 6                            | nw.       | Dr. S. W. Frost.            |
| Bedford.....          | Bedford.....      | 1,060           | .....                   | 72.1                         | .....                     | 97              | 8     | 47              | 30    | 35                       | 3.62  | .....                     | 1.09                 | 0                         | 15                           | 8     | 10         | 13                           | nw.       | Charles C. Lee.             |
| Bellefonte.....       | Center.....       | 1,050           | 23                      | 68.4                         | -2.4                      | 92              | 7     | 45              | 31    | 35                       | 2.80  | -1.04                     | 0.93                 | 0                         | 9                            | 6     | 8          | 17                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem.....        | Northampton.....  | 364             | 46                      | 74.6                         | +1.8                      | 96              | 3†    | 55              | 25    | 32                       | 3.31  | -0.99                     | 1.07                 | 0                         | 12                           | 9     | 7          | 15                           | e.        | Lehigh University.          |
| Carlisle.....         | Cumberland.....   | 467             | 65                      | 73.4                         | +0.8                      | 99              | 6     | 49              | 30    | 38                       | 4.21  | -0.23                     | 1.83                 | 0                         | 15                           | 15    | 6          | 10                           | nw.       | Prof. C. E. Miller.         |
| Catawissa.....        | Columbia.....     | 520             | 35                      | 72.6                         | +2.3                      | 100             | 6     | 48              | 30†   | 42                       | 3.78  | +0.02                     | 1.12                 | 0                         | 14                           | 13    | 7          | 11                           | .....     | W. L. Gearhart.             |
| Center Hall.....      | Center.....       | 1,272           | 35                      | 66.4                         | -2.3                      | 96              | 6†    | 44              | 22    | 41                       | 7.82  | +4.14                     | 5.18                 | 0                         | 8                            | 14    | 6          | 11                           | .....     | S. W. Smith.                |
| Chambersburg.....     | Franklin.....     | 580             | 32                      | 74.0                         | +2.2                      | 99              | 3     | 52              | 30†   | 35                       | 2.53  | -1.43                     | 0.99                 | 0                         | 11                           | 10    | 12         | 9                            | sw.       | William B. Spear.           |
| Clearfield.....       | Clearfield.....   | 1,120           | 24                      | 71.5                         | +1.6                      | 98              | 7     | 44              | 30    | 36                       | 3.63  | -0.48                     | 1.33                 | 0                         | 11                           | 11    | 11         | 9                            | w.        | E. W. Hess.                 |
| Coatesville.....      | Chester.....      | 380             | 44                      | 73.2                         | +0.7                      | 97              | 7     | 56              | 30    | 32                       | 5.20  | +0.83                     | 1.60                 | 0                         | 15                           | 13    | 4          | 14                           | ne.       | Howard L. Pyle.             |
| Colebrook.....        | Lebanon.....      | 560             | 20                      | 70.2                         | -0.1                      | 93              | 3     | 49              | 30    | 31                       | 3.21  | -1.44                     | 0.92                 | 0                         | 14                           | 12    | 8          | 11                           | sw.       | Wm. A. Rorer.               |
| Emporium.....         | Cameron.....      | 1,050           | 44                      | 68.4                         | +1.0                      | 88              | 7     | 48              | 22    | 28                       | 3.57  | -0.32                     | 1.76                 | 0                         | 7                            | 13    | 10         | 8                            | w.        | T. B. Lloyd.                |
| Ephrata.....          | Lancaster.....    | 380             | 39                      | 72.6                         | +1.0                      | 95              | 8†    | 53              | 30    | 33                       | 4.62  | +0.09                     | 1.09                 | 0                         | 13                           | 11    | 7          | 13                           | s.        | Ira J. Keath.               |
| Freeland.....         | Luzerne.....      | 1,970           | 38                      | 68.0                         | +1.8                      | 90              | 7     | 52              | 22†   | 23                       | 2.20  | -2.45                     | 0.56                 | 0                         | 15                           | 7     | 13         | 11                           | nw.       | Theo. Reichmann.            |
| George School.....    | Bucks.....        | 190             | 25                      | 74.0                         | +2.6                      | 97              | 3†    | 54              | 25    | 33                       | 5.63  | +1.03                     | 1.88                 | 0                         | 13                           | 10    | 14         | 7                            | s.        | Prof. N. W. Swayne.         |
| Gettysburg.....       | Adams.....        | 553             | 58                      | 73.4                         | +1.5                      | 97              | 3†    | 55              | 30    | 34                       | 4.18  | +0.26                     | 1.70                 | 0                         | 13                           | 13    | 7          | 11                           | sw.       | Dr. Henry Stewart.          |
| Gordon.....           | Schuylkill.....   | 840             | 27                      | 69.6                         | +1.8                      | 96              | 7     | 44              | 30    | 45                       | 4.17  | -0.07                     | 1.58                 | 0                         | 12                           | 13    | 10         | 8                            | w.        | Sallie M. Johnson.          |
| Gouldsboro.....       | Wayne.....        | 1,875           | 16                      | 64.0                         | .....                     | 88              | 3     | 42              | 31    | 34                       | 2.32  | -2.02                     | 0.62                 | 0                         | 9                            | 20    | 6          | 5                            | w.        | Gustav Holtz.               |
| Hamburg.....          | Berks.....        | 535             | 38                      | 73.0                         | +1.8                      | 96              | 3†    | 49              | 31    | 37                       | 3.32  | -1.68                     | 1.62                 | 0                         | 9                            | 11    | 7          | 13                           | w.        | State Sanatorium.           |
| Hanover.....          | York.....         | 600             | 27                      | 75.2                         | +2.1                      | 99              | 3     | 54              | 30    | 30                       | 4.19  | -0.07                     | 1.25                 | 0                         | 16                           | 14    | 5          | 12                           | s.        | Thomas V. Cooper.           |
| Harrisburg.....       | Dauphin.....      | 361             | 62                      | 73.8                         | +1.2                      | 96              | 6     | 58              | 31    | 30                       | 3.18  | -0.86                     | 1.11                 | 0                         | 13                           | 7     | 13         | 11                           | w.        | U. S. Weather Bureau.       |
| Hawley.....           | Wayne.....        | 900             | 13                      | 68.6                         | +0.8                      | 95              | 7     | 45              | 31    | 39                       | 2.79  | -1.26                     | 0.72                 | 0                         | 11                           | 9     | 16         | 6                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood.....         | Lancaster.....    | 200             | 16                      | 78.2                         | +4.7                      | 104             | 8     | 59              | 24†   | 32                       | 5.40  | +1.65                     | 1.84                 | 0                         | 13                           | 7     | 12         | 12                           | .....     | H. W. Lowy, C. E.           |
| Huntingdon.....       | Huntingdon.....   | 650             | 44                      | 71.8                         | +1.4                      | 97              | 7     | 49              | 29    | 35                       | 5.13  | +1.35                     | 2.02                 | 0                         | 9                            | 14    | 10         | 7                            | nw.       | Prof. Paul R. Yoder.        |
| Hyndman.....          | Bedford.....      | 977             | 19                      | 72.8                         | +1.8                      | 98              | 3†    | 47              | 30    | 38                       | 6.18  | -2.40                     | 1.60                 | 0                         | 13                           | 9     | 6          | 16                           | .....     | Horace A. Sheavly.          |
| Lancaster.....        | Lancaster.....    | 255             | 44                      | 71.0                         | -1.0                      | 99              | 3     | 50              | 30    | 37                       | 5.36  | +1.56                     | 1.64                 | 0                         | 13                           | 18    | 7          | 6                            | w.        | Supt. of Water Works.       |
| Lawrenceville.....    | Tioga.....        | 1,000           | 34                      | 69.2                         | +1.3                      | 94              | 6     | 47              | 30    | 42                       | 2.67  | -0.88                     | 1.10                 | 0                         | 8                            | 11    | 15         | 5                            | .....     | C. P. Darling.              |
| Lebanon.....          | Lebanon.....      | 469             | 47                      | 73.4                         | +1.6                      | 97              | 3†    | 52              | 30    | 34                       | 3.67  | -0.63                     | 1.20                 | 0                         | 14                           | 9     | 12         | 10                           | ne.       | S. B. Benzing.              |
| Lewisburg.....        | Union.....        | 450             | 55                      | 73.2                         | +2.4                      | 101             | 6     | 50              | 31    | 42                       | 3.82  | -0.56                     | 1.17                 | 0                         | 12                           | 10    | 6          | 15                           | w.        | Prof. W. G. Owens.          |
| Lock Haven.....       | Clinton.....      | 560             | 41                      | 73.2                         | +2.1                      | 98              | 3†    | 49              | 30    | 36                       | 3.96  | -0.11                     | 1.36                 | 0                         | 9                            | 8     | 15         | 8                            | sw.       | Joseph Beaver.              |
| Lykens.....           | Dauphin.....      | 680             | 16                      | 71.9                         | +1.9                      | 100             | 7†    | 46              | 31    | 43                       | 4.27  | +0.56                     | 1.02                 | 0                         | 13                           | 14    | 10         | 7                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook.....      | Delaware.....     | 50              | 4                       | .....                        | .....                     | .....           | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | Sun Oil Co.                 |
| Mauch Chunk.....      | Carbon.....       | 600             | 42                      | 70.6                         | +0.6                      | 94              | 5     | 48              | 30†   | 40                       | 5.21  | +0.45                     | 1.75                 | 0                         | 8                            | 15    | 6          | 10                           | nw.       | R. K. Wintermute.           |
| Millintown.....       | Juniata.....      | 445             | 27                      | 71.6                         | +1.1                      | 98              | 7     | 48              | 30    | 38                       | 2.93  | -1.00                     | 1.25                 | 0                         | 12                           | 10    | 4          | 17                           | w.        | Wellington Smith.           |
| Montrose.....         | Susquehanna.....  | 1,720           | 27                      | 67.3                         | +1.0                      | 88              | 6†    | 46              | 31    | 28                       | 2.23  | -1.99                     | 0.65                 | 0                         | 7                            | 15    | 8          | 8                            | s.        | Silas Jagger.               |
| Mt. Pocono.....       | Monroe.....       | 1,658           | 25                      | 65.2                         | +1.4                      | 86              | 6†    | 46              | 31    | 28                       | 5.33  | +1.09                     | 1.30                 | 0                         | 12                           | 7     | 7          | 17                           | n.        | Cecil J. Hoskinson.         |
| Muncy Valley.....     | Sullivan.....     | 1,045           | 19                      | 69.2                         | +1.6                      | 94              | 6†    | 42              | 30    | 40                       | 2.44  | -2.16                     | 1.34                 | 0                         | 5                            | 15    | 6          | 10                           | w.        | H. O. Hacker.               |
| Narberth.....         | Montgomery.....   | 300             | 12                      | .....                        | .....                     | .....           | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | Charles Decker.             |
| Neshaminy Falls.....  | Bucks.....        | 60              | 42                      | 73.1                         | +1.9                      | 98              | 7     | 55              | 25    | 35                       | 7.05  | +2.23                     | 2.29                 | 0                         | 15                           | 19    | 2          | 10                           | ne.       | North Springfield Water Co. |
| Palmerton.....        | Carbon.....       | 398             | 13                      | 70.8                         | .....                     | 94              | 7     | 51              | 29†   | 34                       | 3.88  | +0.17                     | 1.47                 | 0                         | 13                           | 12    | 8          | 11                           | n.        | New Jersey Zinc Co.         |
| Philadelphia.....     | Philadelphia..... | 114             | 60                      | 76.3                         | +1.5                      | 98              | 7     | 60              | 23    | 22                       | 6.00  | +1.38                     | 1.84                 | 0                         | 16                           | 9     | 9          | 13                           | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn..... | Philadelphia..... | 113             | 7                       | 76.2                         | .....                     | 99              | 7     | 59              | 23†   | 27                       | 6.37  | .....                     | 2.47                 | 0                         | 13                           | 7     | 13         | 11                           | .....     | Julius Bernstein.           |
| Phila. Navy Yard..... | Philadelphia..... | 12              | 15                      | 74.8                         | +0.6                      | 96              | 7     | 59              | 23†   | 23                       | 6.11  | +1.57                     | 1.43                 | 0                         | 14                           | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.      |
| Phoenixville.....     | Chester.....      | 100             | 21                      | 76.0                         | +2.9                      | 104             | 4     | 55              | 30    | 33                       | 5.60  | +0.94                     | 2.33                 | 0                         | 10                           | 11    | 12         | 8                            | s.        | North Springfield Water Co. |
| Quakertown.....       | Bucks.....        | 496             | 46                      | 72.6                         | +2.4                      | 98              | 6     | 51              | 25†   | 40                       | 4.01  | -0.36                     | 1.02                 | 0                         | 12                           | 9     | 12         | 10                           | nw.       | John E. Benner.             |
| Reading.....          | Berks.....        | 325             | 59                      | 74.2                         | +4.8                      | 96              | 6     | 58              | 24    | 28                       | 4.72  | +0.51                     | 1.87                 | 0                         | 12                           | 8     | 6          | 17                           | sw.       | U. S. Weather Bureau.       |
| Scranton.....         | Lackawanna.....   | 805             | 37                      | 71.2                         | +1.4                      | 95              | 7     | 51              | 31    | 33                       | 1.90  | -1.79                     | 0.59                 | 0                         | 12                           | 7     | 14         | 10                           | sw.       | U. S. Weather Bureau.       |
| Selinsgrove.....      | Snyder.....       | 455             | 41                      | 72.2                         | +1.0                      | 96              | 8     | 49              | 31    | 36                       | 5.49  | +1.43                     | 2.09                 | 0                         | 11                           | 10    | 10         | 11                           | w.        | Dr. George E. Fisher.       |
| Shawmont.....         | Philadelphia..... | 51              | 35                      | 75.7                         | +2.5                      | 97              | 7     | 57              | 25    | 31                       | 4.82  | -0.21                     | 1.97                 | 0                         | 10                           | 9     | 9          | 13                           | s.        | S. S. Guiles.               |
| State College.....    | Center.....       | 1,217           | 47                      | 70.2                         | +1.7                      | 95              | 7     | 50              | 22†   | 34                       | 3.70  | +0.19                     | 1.08                 | 0                         | 8                            | 13    | 13         | 5                            | w.        | C. A. Kern.                 |
| Stroudsburg.....      | Monroe.....       | 500             | 17                      | 70.0                         | +1.0                      | 97              | 7     | 48              | 31    | 41                       | 3.58  | -1.39                     | 1.00                 | 0                         | 9                            | 10    | 7          | 14                           | w.        | State Normal School.        |
| Towanda.....          | Bradford.....     | 754             | 37                      | 69.0                         | +0.8                      | 90              | 3†    | 46              | 31    | 34                       | 1.94  | -1.49                     | 1.14                 | 0                         | 10                           | 8     | 15         | 8                            | s.        | Hiram E. Bull, C. E.        |
| Wellsboro.....        | Tioga.....        | 1,419           | 61                      | 68.5                         | +2.4                      | 94              | 6     | 43              | 30    | 41                       | 2.46  | -1.05                     | 1.38                 | 0                         | 6                            | 19    | 7          | 5                            | w.        | George W. Hill.             |
| West Chester.....     | Chester.....      | 455             | 82                      | 73.2                         | +1.3                      | 92              | 3†    | 58              | 23†   | 23                       | 6.75  | +2.12                     | 2.44                 | 0                         | 10                           | 12    | 12         | 7                            | w.        | Joseph W. Belt.             |
| Williamsport.....     | Lycoming.....     | 521             | 45                      | 71.8                         | +1.1                      | 96              | 6†    | 47              | 30    | 37                       | 2.48  | -1.50                     | 1.48                 | 0                         | 12                           | 10    | 8          | 13                           | nw.       | Miss Veronica E. April.     |
| York.....             | York.....         | 400             | 43                      | 74.1                         | +1.9                      | 99              | 3     | 52              | 24†   | 37                       | 4.40  | +0.45                     | 1.42                 | 0                         | 16                           | 11    | 12         | 8                            | sw.       | York Water Co.              |
| Ohio Drainage.        |                   |                 |                         |                              |                           |                 |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam.....       | Beaver.....       | 700             | 39                      | 71.5                         | -0.4                      | 96              | 6†    | 52              | 24    | 32                       | 4.10  | +0.48                     | 0.76                 | 0                         | 14                           | 4     | 11         | 16                           | sw.       | U. S. Engineer.             |
| Bradford.....         | McKean.....       | 1,460           | 12                      | 67.2                         | +0.3                      | 94              | 6     | 42              | 31    | 39                       | 4.05  | +0.80                     | 1.62                 | 0                         | 10                           | 7     | 16         | 8                            | sw.       | Supt. Timber Pres. Plant.   |
| Brookville.....       | Jefferson.....    | 1,173           | 41                      | 67.4 <sup>a</sup>            | +1.8                      | 93 <sup>a</sup> | 7†    | 42 <sup>a</sup> | 25    | 41 <sup>a</sup>          | 1.92  | -1.95                     | 1.05                 | 0                         | 5                            | 18    | 6          | 7                            | .....     | John Fawcett.               |
| Butler.....           | Butler.....       | 1,152           | 17                      | 70.4                         | .....                     | 96              | 7†    | 44              | 24    | 38                       |       |                           |                      |                           |                              |       |            |                              |           |                             |



## Daily Precipitation for August, 1931

| Stations           | Drainage Basin | Day of month |     |      |     |   |   |      |        |      |      |     |     |     |     |     |    |     |    |      |     |     |     |      |      |      |      |      |      |     |     |     | Total |      |      |
|--------------------|----------------|--------------|-----|------|-----|---|---|------|--------|------|------|-----|-----|-----|-----|-----|----|-----|----|------|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-------|------|------|
|                    |                | 1            | 2   | 3    | 4   | 5 | 6 | 7    | 8      | 9    | 10   | 11  | 12  | 13  | 14  | 15  | 16 | 17  | 18 | 19   | 20  | 21  | 22  | 23   | 24   | 25   | 26   | 27   | 28   | 29  | 30  | 31  |       |      |      |
| Atlantic Drainage. |                |              |     |      |     |   |   |      |        |      |      |     |     |     |     |     |    |     |    |      |     |     |     |      |      |      |      |      |      |     |     |     |       |      |      |
| Allentown          | Lehigh         |              |     | .10  |     |   |   |      |        | .62  | .99  | .31 | .03 |     | T   | .02 |    |     |    | .08  |     | .06 |     |      | .24  |      | .06  | .44  | .05  | .43 | .17 | .04 | 3.00  |      |      |
| Altoona            | Juniata        |              | .59 | .35  |     |   |   | .08  | .73    | .28  |      | .04 |     |     |     |     |    |     |    |      |     | .08 |     | .06  |      |      |      | .44  | .23  | .67 | .01 |     | 3.32  |      |      |
| Ansonia            | W. Br. Susq.   |              | .24 | .14  |     |   |   |      | .63    | 1.09 | .01  |     | .09 |     |     |     |    |     |    |      |     |     |     | .13  | .01  | .48  |      | .06  | .14  | .23 | .67 | .01 | 3.11  |      |      |
| Arendtsville       | Lower Susq.    |              | .01 |      |     |   |   |      | .12    | .12  | 1.20 | .31 | .04 |     |     |     |    |     |    |      |     |     |     |      |      |      |      | .06  | .14  | .23 | .67 | .01 | 2.82  |      |      |
| Baker's Summit     | Juniata        |              | .47 | T    |     |   |   |      | .43    | .04  |      |     | .02 |     |     |     |    |     |    | .53  |     | .44 |     | .04  |      | .09  | .34  | 1.12 | .06  | .15 |     | .09 | 3.82  |      |      |
| Bedford            | Juniata        |              | .08 | .01  | .01 |   |   |      | .01    | .58  |      |     | .02 |     |     |     |    |     |    | T    | .39 | .02 | .98 | T    | .08  |      | .13  | 1.09 | .12  | .08 | .02 |     | 3.62  |      |      |
| Bellefonte         | W. Br. Susq.   | T            | T   | .18  |     |   |   | .02  | .91    | .93  |      |     | T   | T   |     |     |    |     |    | .14  |     |     |     | T    | .22  | .08  | .06  | .26  |      |     |     |     | 2.80  |      |      |
| Bethlehem          | Lehigh         |              |     | .09  |     |   |   |      | .17    | .28  | 1.07 | .23 | .04 |     |     | .03 |    |     |    |      | .02 |     |     |      | .28  |      | .17  | .74  | .19  |     |     |     | 3.33  |      |      |
| Bloersville        | Lower Susq.    |              | .02 | T    |     |   |   |      | .20    | .95  |      |     | .18 | .02 | T   |     |    |     |    |      |     |     | .42 |      | .10  | T    | .08  | T    |      | .05 | .48 | .70 | T     | 3.20 |      |
| Carlisle           | Lower Susq.    |              | T   | .04  |     |   |   |      | .60    | 1.83 | .11  | .22 | .03 |     |     |     |    |     |    | .08  | T   | .12 |     | .20  |      | .33  | .05  | .24  | .18  | .12 | T   | .06 | 4.21  |      |      |
| Catawissa          | N. Br. Susq.   |              | .78 |      |     |   |   | .39  | 1.12   | .75  | .12  | .07 |     |     |     | .10 |    |     |    |      |     | .04 |     |      | .01  |      | .04  | .06  | .10  | .15 | .05 |     | 3.78  |      |      |
| Center Hall        | Susquehanna    |              | .15 | .21  |     |   |   |      | 5.18   | 1.34 |      |     |     |     |     |     |    |     |    | .01  |     |     |     |      |      |      | .21  | .01  | .68  |     |     |     | 7.82  |      |      |
| Chambersburg       | Potomac        |              | .02 | T    |     |   |   |      | .50    | .99  | .05  | .10 | .03 |     |     |     |    |     |    | .08  | T   | .19 |     | .23  |      |      |      | .09  | .09  | .25 | T   |     | 2.53  |      |      |
| Clearfield         | W. Br. Susq.   |              | .02 | .30  |     |   |   |      | .50    | 1.33 | .10  |     | T   | .05 |     |     |    |     |    | .25  |     |     |     | T    | .33  | .03  | .37  | .35  |      |     |     |     | 3.63  |      |      |
| Coatesville        | Lower Del.     |              |     |      |     |   |   |      | .88    | 1.24 | .38  | .15 | .02 |     | .04 |     |    |     |    | .02  | .02 | .30 | .13 | 1.47 | .02  |      | .01  | .15  |      | .37 | T   |     | 5.20  |      |      |
| Colebrook          | Lower Susq.    |              | .05 |      |     |   |   |      | .40    | .92  | .20  | .11 | .01 |     | T   | .03 |    |     |    | T    | .02 | .12 |     | .86  |      | T    | .01  | .11  | .30  | .07 |     |     | 3.21  |      |      |
| Conshohocken       | Schuylkill     |              |     | .03  |     |   |   |      | .01    | 1.31 | .32  |     | .02 |     | T   | .57 |    |     |    |      |     | .34 |     | 1.17 |      |      | .01  | .10  | .25  | T   | T   |     | 4.11  |      |      |
| Cresskill          | Juniata        |              | .10 | .23  |     |   |   |      | .82    | .50  |      | .15 | .30 |     | T   | .08 |    |     |    | .10  | .18 |     | .14 |      |      | .20  | .45  | .31  | .09  |     |     |     | 3.57  |      |      |
| Doylestown         | Lower Del.     |              |     | .30  | .19 |   |   |      | T      | .28  | .99  | .29 |     | T   | .08 |     |    |     |    |      |     |     | .03 |      |      |      |      | .01  | T    | .25 |     |     | 3.10  |      |      |
| Driftwood          | W. Br. Susq.   |              |     |      |     |   |   |      |        |      |      |     |     |     |     |     |    |     |    |      |     |     |     |      |      |      |      |      |      |     |     |     |       |      |      |
| Emporium           | W. Br. Susq.   |              | .21 | .84  |     |   |   | T    | 1.76   | .13  |      |     | T   | .05 |     |     |    |     | T  | .15  |     |     | .12 | T    | 1.07 | T    | .33  | T    | .15  | T   |     | .92 | .01   | 3.57 |      |
| Ephrata            | Lower Susq.    | T            |     | .10  |     |   |   |      | .86    | 1.09 | .13  | .24 | .05 |     |     | .01 |    |     |    | .01  |     |     | .12 |      |      |      | T    | .18  | .52  | .04 | T   |     | 4.62  |      |      |
| Forest City        | N. Br. Susq.   |              | .03 | .02  |     |   |   |      | .06    | .38  | .02  | .54 | T   |     |     |     |    |     |    | .08  | .02 |     |     |      |      |      | T    | .16  | .09  | .13 | .02 | T   | 1.73  |      |      |
| Freeland           | Lehigh         | .02          |     | .06  |     |   |   |      | .06    | .56  | .28  | .25 | .09 |     |     |     |    |     |    |      |     | .34 |     |      |      | .04  |      |      |      |     |     |     | 2.20  |      |      |
| Gaileton           | W. Br. Susq.   |              | .16 | .23  |     |   |   | .06  | 1.06   | .03  |      |     | .05 |     |     |     |    |     |    |      |     |     |     |      |      |      | .09  | .51  | .04  |     |     |     | 2.23  |      |      |
| George School      | Lower Del.     |              |     | .05  |     |   |   |      | .70    | 1.88 | .82  | .61 | .01 | T   | .19 |     |    |     |    |      |     | .17 |     | .63  | .22  |      | .01  | T    | .12  | .22 |     | T   | 5.63  |      |      |
| Gettysburg         | Potomac        |              |     | T    |     |   |   |      | .36    | 1.70 | .17  | .18 | .01 |     |     |     |    |     |    | .02  | .02 | .18 |     | .64  | .05  | .02  | .02  | T    | .11  | .32 |     |     | 4.18  |      |      |
| Girardville        | Lower Susq.    | T            | .11 |      |     |   |   | .18  | .42    | 1.14 | .25  | .06 |     |     | .02 |     |    |     |    | .08  |     |     |     | .05  |      | .28  | .49  | .11  | .32  |     |     |     | 3.51  |      |      |
| Gordon             | Lower Susq.    | T            | .14 | .43  |     |   |   |      | .37    | 1.58 | .14  | .14 | .07 |     | T   | .04 |    |     |    |      |     |     |     | .06  |      |      | .15  | .09  |      | .96 |     |     | 4.17  |      |      |
| Gouldsboro         | Lehigh         |              | .03 | .15  |     |   |   |      |        | .54  | .13  |     | .62 |     | .50 |     |    |     |    |      | .04 | .07 |     |      | .03  |      |      |      | .25  |     |     |     | 2.32  |      |      |
| Graterford         | Schuylkill     |              |     | .14  |     |   |   |      | 1.68   | 1.27 | .18  | .02 | T   | .17 |     |     |    |     |    |      |     |     |     | .28  |      | .36  |      |      | .09  | T   | .21 |     | 4.40  |      |      |
| Hamburg            | Schuylkill     | T            | T   | .02  |     |   |   |      | .51    |      | 1.62 | .20 | .06 |     |     | .02 |    |     |    |      |     |     |     |      | .29  |      | .29  |      | .10  | .04 |     | .88 | T     |      | 3.82 |
| Hanover            | Lower Susq.    |              |     | .03  |     |   |   |      | .37    | .75  | .17  | .26 | .04 |     | .01 |     |    |     |    | T    | .06 | .19 | .01 | 1.25 | .02  |      | .24  | .24  | .07  | .12 | .06 |     | 4.19  |      |      |
| Harrisburg         | Lower Susq.    | T            |     |      |     |   |   |      | .90    | .96  | .15  | .08 | T   | T   |     |     |    |     |    | T    | .01 | .05 |     | .27  | .03  |      | .24  | .24  | .07  | .12 | .06 |     | 3.18  |      |      |
| Hawley             | Upper Del.     |              | .24 |      |     |   |   |      | .10    | .08  | .43  | .20 | .40 | .13 |     |     |    |     |    |      | .01 | .05 |     |      |      |      | T    | .72  | .46  | .02 | T   |     | 2.79  |      |      |
| Hollisterville     | Upper Del.     |              | .19 | .11  |     |   |   | .53  |        | .19  | .10  | .42 | .12 |     | .36 |     |    |     |    | T    | .02 | .02 |     | T    |      |      | T    | .10  | .07  | .02 | T   |     | 2.23  |      |      |
| Holtwood           | Lower Susq.    |              |     | 1.09 |     |   |   |      | .04    | .80  | .65  | .04 |     | .03 |     |     |    |     |    | T    | T   | .19 | .07 | 1.84 | .41  |      | 2.02 | .60  | .20  | .08 |     |     | 5.40  |      |      |
| Huntingdon         | Juniata        |              | .03 |      |     |   |   |      | .85    | .53  |      |     |     |     |     |     |    |     |    | .80  |     | .02 |     |      |      |      | .02  | T    | .10  | .37 | .03 |     | 5.13  |      |      |
| Hyndman            | Potomac        |              | .36 | .15  | T   |   |   |      | .50    | .40  |      |     | .18 |     |     |     |    |     |    | 1.01 | .17 | .61 |     | .14  |      |      | .90  | 1.60 | .05  | .11 | T   | T   | 6.18  |      |      |
| Kylertown          | W. B. Susq.    |              | .43 | .28  |     |   |   | 1.31 | .28    | 1.87 |      |     | T   | .08 |     |     |    | .04 | T  | .09  | .03 |     |     |      |      | 1.66 | .05  | .30  | .08  |     |     |     | 6.42  |      |      |
| Lakeville          | Upper Del.     |              | .60 |      |     |   | T |      |        | .02  | .18  | .50 | .05 |     | .40 |     |    |     |    |      |     |     |     |      |      |      | T    | .25  | T    |     |     |     | 2.00  |      |      |
| Lancaster          | Lower Susq.    |              |     | .02  |     |   |   |      | .60    | 1.12 | .13  | .32 | .08 |     |     |     |    |     |    | .87  |     | .23 |     | 1.64 |      | .15  | .05  | .04  |      | .11 |     |     | 5.36  |      |      |
| Lansford           | Lehigh         |              |     | .54  |     |   |   |      | * 1.31 | .70  | .22  | .08 |     | .13 | T   |     |    |     |    |      | .31 |     |     |      | .10  |      |      | .18  | 1.30 | .53 | T   |     | 5.40  |      |      |
| Lawrenceville      | N. Br. Susq.   |              | .34 | .45  |     |   |   | .10  | 1.10   | .10  | T    |     | .10 |     |     |     |    |     |    |      |     |     |     |      |      |      |      | .38  | .10  |     |     |     | 2.67  |      |      |
| Lebanon            | Lower Susq.    |              |     |      |     |   |   |      | .97    | 1.20 | .25  | .03 |     | T   | .01 |     |    |     |    |      | .01 | .01 | .34 | .39  |      |      | .01  | .06  | .30  | .03 | .06 |     | 3.67  |      |      |
| Lewisburg          | W. Br. Susq.   | T            | .16 |      |     |   |   |      | .60    | 1.17 | T    | .06 | .02 |     | .02 |     |    |     |    | .15  | T   |     |     | T    |      | .02  | .05  | 1.07 | .35  | .15 |     |     | 3.82  |      |      |
| Lloyd              | do             |              |     |      |     |   |   |      |        |      |      |     |     |     |     |     |    |     |    |      |     |     |     |      |      |      |      |      |      |     |     |     |       |      |      |
| Lock Haven         | do             |              | .49 |      |     |   |   |      | 1.36   | 1.27 |      | .01 |     | .16 |     |     |    |     |    | .54  |     |     |     |      |      |      |      | .03  | .04  |     | .06 |     | 3.96  |      |      |
| Lykens             | Susquehanna    |              |     | .20  |     |   |   |      | .80    | 1.02 | .03  | .27 | .03 |     | .07 | .48 |    |     |    |      |     |     |     | .18  |      |      |      | .01  | .52  | .18 | .48 |     | 4.27  |      |      |
| Marcus Hook        | Lower Del.     |              |     |      |     |   |   |      |        |      |      |     |     |     |     |     |    |     |    |      |     |     |     |      |      |      |      |      |      |     |     |     |       |      |      |
| Mauch Chunk        | Lehigh         |              |     |      |     |   |   |      | 1.53   | .55  | .10  | .17 |     |     |     |     |    |     |    |      |     |     |     |      |      |      |      | 1.75 | .83  | .02 |     |     | 5.21  |      |      |
| Midtown            | Juniata        |              | .33 |      |     |   |   |      | .34    | 1.25 |      | .03 | .04 |     | .06 |     |    |     |    |      |     |     |     | .11  |      | .03  |      | .38  | .22  | .06 |     |     | 2.93  |      |      |



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| Stations        | Drainage Basin | Day of month |      |      |     |      |     |     |      |      |      |      |      |     |     |    |    |    |      |      |     |     |     |     |     |      |      |      |      |     |     |     | Total |      |
|-----------------|----------------|--------------|------|------|-----|------|-----|-----|------|------|------|------|------|-----|-----|----|----|----|------|------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|------|
|                 |                | 1            | 2    | 3    | 4   | 5    | 6   | 7   | 8    | 9    | 10   | 11   | 12   | 13  | 14  | 15 | 16 | 17 | 18   | 19   | 20  | 21  | 22  | 23  | 24  | 25   | 26   | 27   | 28   | 29  | 30  | 31  |       |      |
| Ohio Drainage.  |                |              |      |      |     |      |     |     |      |      |      |      |      |     |     |    |    |    |      |      |     |     |     |     |     |      |      |      |      |     |     |     |       |      |
| Beaver Dam\|\|\| | Ohio           |              |      | .12  | .03 |      |     |     |      |      | .31  | .37  | .76  | .38 |     |    |    |    | .70  | .41  | .13 |     |     |     |     | .14  | .04  | .33  | .11  |     |     | .27 | 4.10  |      |
| Beaver Falls\|\|\| | Beaver         |              |      | .03  | T.  |      |     |     |      |      | .18  | .65  | .35  | .29 |     |    |    |    | .35  | .46  | .45 |     |     |     |     | .16  | .47  | .16  | .11  |     | T.  | .17 | 3.83  |      |
| Bradford        | Allegheny      | 1.62         |      | .32  |     |      |     |     | .38  | .27  | .05  |      |      | .03 |     |    |    |    |      |      |     |     |     |     |     | 1.20 | .10  | .02  |      |     | .06 |     | 4.01  |      |
| Brookville      | do.            |              |      | .06  | .36 |      |     |     |      |      | 1.05 |      |      |     |     |    |    |    |      | .08  | .37 |     |     |     |     |      |      |      |      |     |     |     | 4.00  |      |
| Butler          | Ohio           |              |      |      |     |      |     |     |      |      | .20  | 1.20 |      | .04 |     |    |    |    | .83  | .60  |     |     |     |     |     |      | .19  | .75  | .03  |     | .12 |     | 3.13  |      |
| Chambersville   | Allegheny      | .58          | .34  |      |     |      |     |     | .04  | .54  | .54  |      |      |     |     |    |    |    | .73  | .60  | T.  |     |     |     |     |      | .08  | .03  | .36  | .24 | .06 |     | 4.13  |      |
| Clairton        | Monongahela    | T.           | .20  |      | T.  | 1.13 |     |     |      | .25  | .11  |      | .08  |     |     |    |    |    | .98  | .23  | T.  | T.  |     |     | T.  | T.   | .24  | .06  | .53  |     | .21 |     | 4.02  |      |
| Claysville      | Ohio           |              | .04  | .37  | .02 |      |     |     |      |      | .32  |      | .02  | .72 |     |    |    |    | .56  | .18  | .09 | .10 |     |     |     |      | .18  | .07  | .17  | .66 |     | .20 | 3.70  |      |
| Clymer\|\| | Conemaugh      |              | .65  | .07  | .32 | .05  |     |     |      | 1.90 |      | .40  | .04  |     |     |    |    |    | .70  | .25  |     |     |     |     |     |      | .10  | .40  | .35  | .07 | T.  |     | 5.30  |      |
| Confluence\|\| | Youghiogheny   |              |      |      | .22 | .04  |     |     |      |      | .63  | .25  |      | .05 |     |    |    |    | .75  | .22  | .70 | .22 | .06 |     |     |      | .19  | .22  | .33  | .33 |     | .23 | 4.43  |      |
| Corry           | Allegheny      | .03          | .71  | .56  |     |      |     |     |      |      | .20  | .02  |      |     |     |    |    |    | .12  |      |     |     |     |     | .20 |      | .50  | .18  | .04  |     | .35 |     | 2.50  |      |
| Coudersport     | Allegheny      |              | .33  | .22  |     |      |     |     | .69  | .46  | T.   |      | .12  |     |     |    |    |    | .19  | .96  | .31 | .03 |     |     |     |      | .10  | .95  | .16  |     | .36 |     | 5.73  |      |
| Derry           | Conemaugh      | 1.30         | .25  |      |     |      |     |     |      | 1.15 | .03  |      |      |     |     |    |    |    | .19  | .96  | .31 | .03 |     |     |     |      | .10  | .95  | .16  |     | .36 |     | 2.50  |      |
| Donora\|\|\| | Monongahela    |              | .01  | .24  |     | .03  |     |     |      |      | .33  | T.   |      | .18 |     |    |    |    | .03  | 1.25 | .12 | .06 | .04 |     |     | .04  | .01  | .79  | .27  | .15 | .24 |     | 3.93  |      |
| Ebensburg       | Conemaugh      |              | .16  | .39  | .03 |      |     |     |      | .38  | .33  |      | .08  |     | .08 |    |    |    | .03  | .60  | .02 | .03 |     |     |     |      | .28  | .15  | .83  | .37 | .03 | .10 | .03   | 3.79 |
| Elk Lick        | Youghiogheny   |              |      | .65  |     |      |     |     |      |      | .73  |      |      |     |     |    |    |    | .48  |      | .64 | .95 | .05 |     |     |      | .25  |      | .32  |     | .18 | .23 | 4.80  |      |
| Falls Creek     | Allegheny      |              | .10  | .22  |     |      |     |     |      | 1.15 | .88  |      |      |     |     |    |    |    |      | .24  |     |     |     |     |     |      |      |      |      |     |     |     |       |      |
| Franklin\|\|\| | Allegheny      |              | .60  |      |     |      |     |     |      | .07  | .10  | .07  |      |     |     |    |    |    | .03  |      |     |     |     |     |     |      |      |      |      |     |     |     |       |      |
| Freeport\|\|\| | do.            |              | .13  | .21  |     |      |     |     |      |      | .17  | .32  |      | .03 |     |    |    |    | .07  | .72  | .41 |     |     |     |     | T.   | .47  | .05  | .09  | .21 |     | .14 | 3.02  |      |
| Greensboro      | Monongahela    | 1.00         |      | .31  | .02 |      |     |     |      |      | .85  |      |      | T.  |     |    |    |    | .04  | .10  | .65 | .32 |     |     |     |      | .22  | .23  | .40  | .51 |     | .27 | 5.00  |      |
| Greensburg      | Youghiogheny   | .55          | .20  | T.   | .01 |      |     |     |      | .34  | .12  | T.   | T.   | .01 |     |    |    |    | .90  | 1.27 | .15 | .06 | .01 | T.  |     | .15  | .26  | 1.23 | .19  |     | .27 | .02 | 6.70  |      |
| Greenville      | Beaver         | .52          | .14  | T.   |     |      |     |     |      | .25  | .25  | .95  | .10  | .15 |     |    |    |    | .06  |      |     |     |     | .06 |     | .48  | .53  | T.   |      |     |     | .34 | 4.11  |      |
| Grove City      | do.            |              | .12  | .28  |     |      |     |     |      | .05  | .70  | .12  | .12  | .10 |     |    |    |    | .59  | .02  | .02 |     |     |     |     |      | .55  | .03  | .01  | .24 |     | .04 |       | 2.99 |
| Herrs Isl. Dam\|\|\| | Ohio           |              |      | .37  |     |      |     |     |      |      | .54  | .04  | T.   | .18 |     |    |    |    | 1.46 | .10  | .01 |     |     |     |     | .03  |      | .03  | .10  | .01 |     | .23 | 3.10  |      |
| Ingram          | Ohio           |              |      | *    | .26 |      |     |     |      | .24  | .17  |      | .03  | .20 |     |    |    |    | 1.71 | .53  | .02 | T.  |     |     |     |      | .04  | .11  | .09  | .04 |     | .27 | T.    | 3.77 |
| Irwin           | Youghiogheny   | T.           | .52  | T.   | .24 |      |     |     |      | .30  | .06  |      |      |     |     |    |    |    | .58  | 1.80 | .13 | T.  |     |     |     |      | .41  | .04  | .68  | .80 |     | .30 | .08   | 5.90 |
| Johnstown       | Conemaugh      | 2.40         | .08  |      |     | T.   |     |     |      | .92  | .08  |      |      |     |     |    |    |    | .11  | 1.30 | .05 | .34 |     | .02 |     |      | .02  | .40  | .34  | .10 |     | .35 | .04   | 6.50 |
| Kregar\|\|\| | Youghiogheny   | .12          | .43  |      |     |      |     |     | 2.09 | T.   |      | T.   |      |     |     |    |    |    | .70  | .94  | .62 | .27 |     |     |     |      | .94  | .58  | .45  | .70 |     | .14 |       | 8.70 |
| Lake Lynn\|\|\| | Monongahela    | .67          |      | .60  | .02 |      |     |     |      |      | 1.47 | .25  |      | .09 |     |    |    |    | .24  | .17  | .65 | .40 | .02 |     |     |      | .34  | .47  | .43  | .86 |     | .33 | 7.00  |      |
| Linesville\|\|\| | Beaver         | .45          | 1.32 |      |     |      |     |     | .04  | .10  | .11  | .40  | 1.03 |     |     |    |    |    |      |      |     |     |     |     |     | .10  | .50  | .10  |      |     |     | .10 | 4.11  |      |
| Lock No. 2\|\|\| | Ohio           |              | T.   | .04  |     |      |     |     |      |      | .13  | .29  |      | .31 |     |    |    |    | .52  | .72  | .10 | .01 | T.  |     |     | .07  |      | .08  | .06  | .20 |     | .35 | 2.80  |      |
| Lock No. 4\|\|\| | Monongahela    |              |      | .34  |     |      |     |     |      |      | .76  | .01  |      | .15 |     |    |    |    | T.   | 1.34 | .14 | .15 | .09 |     |     | .04  |      | .68  | .28  | .33 |     | .20 | 4.50  |      |
| Lycippus        | Conemaugh      |              | .64  | .64  | T.  |      |     |     |      | .30  | .15  |      |      |     |     |    |    |    | .70  | 1.34 | .13 | .22 |     |     |     |      | .14  | T.   | 1.00 | .33 | .33 | .24 |       | 6.10 |
| McKeesport\|\|\| | Monongahela    |              |      |      | .01 |      |     |     |      |      | .41  | .01  |      | .19 |     |    |    |    | .05  | .95  | .05 |     |     |     |     |      | T.   | .06  | T.   | .03 |     | .16 | 1.90  |      |
| Meadville       | Allegheny      | T.           | .85  |      | .35 |      |     |     |      | .23  | .28  | .03  |      | .11 |     |    |    |    |      |      |     |     |     |     |     | .10  | .19  | .65  | .03  |     |     |     | 2.80  |      |
| Mount Lebanon   | Ohio           | T.           | .14  |      |     |      |     |     |      | .13  | .18  |      | .03  | .26 |     |    |    |    | 1.14 | .59  | .05 |     |     |     |     | .01  | .10  | .10  | .02  |     | .34 |     | 3.00  |      |
| Natrona\|\|\| | Allegheny      |              | .10  | .01  |     |      |     |     |      |      | .05  | .30  |      | .03 |     |    |    |    | .31  | .21  | .11 |     |     |     |     | .01  | .20  | .02  | .12  | .42 |     | .17 | 2.00  |      |
| New Castle\|\|\| | Beaver         |              | .19  | .16  |     |      |     |     |      | .38  | .87  | 2.25 | .24  | .02 |     |    |    |    | .05  | .17  | .03 |     |     |     |     | .17  | .02  | .11  | .60  |     |     | .09 | 5.30  |      |
| Newell          | Monongahela    | .45          | .70  |      |     |      |     |     | 1.20 |      |      | .13  |      |     |     |    |    |    |      | .73  | .08 | .30 | .08 |     |     |      |      | 1.00 | .20  | .45 |     | .53 | 5.30  |      |
| Parkers Landing\|\|\| | Allegheny      | T.           |      | .78  | .56 |      |     |     | T.   | T.   | .49  | 1.60 | T.   | .05 |     |    |    |    | T.   | .22  | .10 |     |     |     |     | T.   | .55  | .09  | .40  |     | T.  | T.  | 4.80  |      |
| Pennline\|\|\| | Beaver         |              | .59  | 1.16 |     |      |     |     |      | .09  | .16  | .35  | 1.77 | .20 |     |    |    |    | 1.87 | .51  | T.  | T.  |     |     |     |      | .09  |      | .54  |     | .14 |     | 5.00  |      |
| Pittsburgh***   | Ohio           |              | .22  | T.   |     |      |     |     |      | .28  | .12  |      | .16  | T.  |     |    |    |    |      |      |     |     |     |     |     |      | .02  | .02  | .08  | .03 |     | .19 |       | 3.50 |
| Punxsutawney\|\|\| | Allegheny      |              | .46  |      |     |      |     |     |      |      | .31  | .86  |      | T.  |     |    |    |    | .33  |      |     |     |     |     |     |      | .48  |      |      |     |     |     | 2.40  |      |
| Ridgway         | do.            | T.           | T.   | .17  |     |      |     |     |      |      | 1.04 | 1.71 |      |     |     |    |    |    | .20  | .20  |     |     |     |     |     | .24  |      | .47  | .18  | T.  |     |     | 4.00  |      |
| Saltsburg\|\|\| | Conemaugh      |              | .29  | .45  |     | .80  |     | .14 |      |      | .10  | .03  |      | .01 |     |    |    |    | .08  | .24  | .71 |     |     |     |     |      | .96  | .15  | .33  | .09 |     | .31 | 4.80  |      |
| Sharon\|\|\| | Beaver         |              | .30  |      |     |      |     |     | T.   | .05  | .18  | .50  | .23  |     |     |    |    |    | .03  | .33  | .02 |     |     |     |     |      | .09  | .26  | .78  | T.  |     | .05 | 2.80  |      |
| Somerset        | Youghiogheny   |              | .12  | .10  | .07 |      |     |     |      | .72  | .79  |      | T.   | T.  |     |    |    |    | .04  | .74  | .15 | .58 | .06 | .02 |     |      | .05  | .01  | .40  | .40 | .25 | .04 |       | 4.50 |
| Springdale\|\|\| | Allegheny      |              |      | .20  | .16 |      |     |     |      |      | .12  | .14  | T.   | .02 |     |    |    |    | .14  | .31  | .59 |     |     |     |     | .01  | .06  | .03  | .09  | .10 |     | .22 | 2.10  |      |
| Uniontown       | Monongahela    |              | .18  | .05  | .17 |      |     |     |      |      | .17  | .50  | T.   | .03 | .02 |    |    |    | .25  | .22  | .26 | .68 | .23 | .01 |     | T.   | .14  | .61  | .68  | .10 | .14 | .03 | 4.40  |      |
| Unity Reservoir\|\| | Youghiogheny   |              | .40  | .20  |     | .10  |     |     |      |      | .25  | .13  |      | T.  |     |    |    |    | 1.47 | .85  | .10 | .12 | T.  |     |     |      | .14  | .15  | .78  | .23 |     | .27 | 5.10  |      |
| Vandergrift     | Conemaugh      |              | .23  | .08  |     |      |     |     |      | .02  | .03  |      |      |     |     |    |    |    | .52  | .70  |     |     |     |     |     |      | .36  | .04  |      | .44 |     | .18 | 2.60  |      |
| Warren          | Allegheny      |              | .28  | .58  |     |      |     |     | .10  | .58  | .20  |      |      | .03 |     |    |    |    | .18  | .20  |     |     |     |     |     | .03  |      | .06  | .03  |     | .11 |     | 2.30  |      |
| Waynesburg      | Monongahela    |              |      | .20  | .11 |      |     |     |      | .30  | 1.81 |      |      | .30 |     |    |    |    | .10  | .20  | .70 |     |     |     |     |      | .50  | .80  | .50  |     | .10 |     | 5.60  |      |
| Westford\|\|\| | Beaver         |              | 1.92 |      |     |      |     |     | .22  | .48  | .39  | .65  |      | .22 |     |    |    |    | .13  | .80  | .10 | .09 | .08 |     |     |      | 1.95 | .26  | .26  |     |     |     | 6.30  |      |
| West Newton\|\|\| | Youghiogheny   |              |      | .26  | .23 |      | .04 |     |      |      | .82  |      |      |     | .15 |    |    |    |      |      |     |     |     |     |     |      |      | .15  | .49  | .56 |     | .17 | .16   | 3.70 |
| Lake Drainage.  |                |              |      |      |     |      |     |     |      |      |      |      |      |     |     |    |    |    |      |      |     |     |     |     |     |      |      |      |      |     |     |     |       |      |
| Erie***         | Lake Erie      |              | .02  | .12  | .06 |      |     |     | T.   | .08  | .23  |      |      | .44 |     |    |    | T. |      |      |     |     |     |     |     |      | .16  | T.   | .24  | .05 | .02 | .13 | .23   | 1.70 |
| Genesee         | do.            |              |      | .70  | .10 |      |     |     |      | .90  | .04  |      | T.   |     |     |    |    |    |      |      |     |     |     |     |     |      | T.   | .28  | .70  | .20 | .16 |     | T.    | 3.00 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville  
Newville; of Clymer, Indiana; of Driftwood, Sinnemahoning; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah  
doah ‡ Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |         |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|---------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |         |           |      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | Highest | Direction | Date |
| Erie.....         | 267.3                   | 428.7                    | 62                     | 80               | 76       | 77      | 7,177                    | 9.6                         | 34      | sw.       | 29   |
| Harrisburg.....   | 233.2                   | 425.1                    | 55                     | 78               | 56       | 67      | 3,330                    | 4.5                         | 33      | sw.       | 9    |
| Philadelphia..... | 221.4                   | 425.1                    | 52                     | 75               | 56       | 66      | 7,450                    | 10.0                        | 36      | n.        | 23   |
| Pittsburgh.....   | 213.9                   | 426.9                    | 50                     | 80               | 56       | 64      | 4,838                    | 6.5                         | 26      | n.        | 10   |
| Reading.....      | 214.3                   | 425.1                    | 50                     | 77               | 57       | 67      | 2,910                    | 3.9                         | 31      | ne.       | 10   |
| Scranton.....     | 240.0                   | 426.9                    | 56                     | 82               | 56       | 68      | 3,348                    | 4.5                         | 18      | sw.       | 30   |

\* For any five-minute period.

† By 3-cup anemometer.

## RIVER CONDITIONS

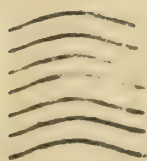
| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 2.2        | 2.8           | 1    | 1.6          | 24   | 18          |
| Phillipsburg..... | Delaware.....     | 1.2        | 1.9           | 1    | 0.8          | 24   | 22          |
| Mauch Chunk.....  | Lehigh.....       | 1.5        | 2.1           | 13   | 1.0          | 26   | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 2.4        | 3.5           | 12   | 1.6          | 27   | 20          |
| Williamsport..... | Susquehanna.....  | 0.6        | 1.8           | 13   | 0.1          | 26   | 20          |
| Harrisburg.....   | Susquehanna.....  | 3.5        | 4.0           | 12   | 3.2          | 26   | 17          |
| Greensboro.....   | Monongahela.....  | 12.4       | 17.0          | 23   | 11.1         | 17   | 80          |
| West Newton.....  | Youghiogheny..... | 0.8        | 2.6           | 29   | 0.2          | 8    | 20          |
| Lock No. 4.....   | Monongahela.....  | 14.0       | 17.5          | 23   | 12.6         | 18   | 31          |
| Pittsburgh.....   | Ohio.....         | 10.6       | 12.3          | 23   | 10.0         | 10   | 25          |
| Beaver Dam.....   | Ohio.....         | 7.7        | 8.9           | 24   | 7.0          | 22   | 80          |



Daily Temperatures for August, 1931

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7   | 8  | 9  | 10 | 11 | 12   | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22   | 23   | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |
|--------------------|---------|----|----|----|----|----|-----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|------|------|----|----|----|----|----|----|----|----|------|
| Allentown.....     | Maximum | 78 | 76 | 95 | 85 | 91 | 94  | 95 | 82 | 88 | 82 | 68   | 70 | 80 | 79 | 84 | 87 | 88 | 85 | 79 | 72 | 77   | 67   | 78 | 85 | 82 | 82 | 79 | 76 | 80 | 77 | 81.5 |
|                    | Minimum | 62 | 62 | 65 | 71 | 60 | 61  | 64 | 69 | 68 | 71 | 63   | 61 | 62 | 65 | 67 | 65 | 62 | 64 | 67 | 60 | 63   | 58   | 60 | 59 | 54 | 57 | 62 | 61 | 63 | 55 | 62.5 |
| Altoona.....       | Maximum | 78 | 86 | 90 | 84 | 90 | 89  | 90 | 85 | 89 | 77 | 72   | 72 | 77 | 80 | 88 | 86 | 88 | 86 | 76 | 72 | 67   | 71   | 68 | 82 | 82 | 76 | 70 | 75 | 77 | 74 | 76   |
|                    | Minimum | 61 | 59 | 65 | 65 | 59 | 63  | 63 | 65 | 63 | 64 | 56   | 59 | 61 | 56 | 55 | 57 | 57 | 60 | 92 | 61 | 55   | 52   | 56 | 50 | 61 | 60 | 55 | 52 | 61 | 49 | 55   |
| Bedford.....       | Maximum | 94 | 92 | 95 | 92 | 93 | 96  | 96 | 97 | 92 | 84 | 72   | 74 | 85 | 84 | 89 | 90 | 87 | 87 | 79 | 75 | 67   | 71   | 68 | 80 | 81 | 80 | 78 | 83 | 80 | 79 | 79   |
|                    | Minimum | 61 | 66 | 66 | 62 | 61 | 68  | 61 | 68 | 64 | 68 | 56   | 61 | 61 | 57 | 64 | 59 | 68 | 58 | 62 | 64 | 58   | 57   | 58 | 53 | 61 | 61 | 58 | 53 | 61 | 47 | 50   |
| Bellefonte.....    | Maximum | 75 | 81 | 91 | 85 | 90 | 91  | 92 | 88 | 85 | 76 | 71   | 73 | 79 | 81 | 85 | 84 | 84 | 87 | 74 | 76 | 69   | 75   | 69 | 80 | 79 | 78 | 72 | 77 | 77 | 75 | 76   |
|                    | Minimum | 61 | 58 | 65 | 62 | 57 | 56  | 59 | 64 | 67 | 60 | 56   | 60 | 62 | 61 | 62 | 56 | 53 | 56 | 60 | 54 | 57   | 46   | 57 | 49 | 57 | 56 | 56 | 50 | 55 | 47 | 45   |
| Brookville.....    | Maximum | 84 | 79 | 89 | 88 | 85 | 89  | 93 | 93 | 92 | 84 | .... | 50 | 54 | 51 | 50 | 55 | 52 | 50 | 51 | 55 | 52   | 50   | 46 | 47 | 42 | 55 | 53 | 52 | 49 | 48 | 46   |
|                    | Minimum | 58 | 57 | 58 | 59 | 55 | 54  | 52 | 54 | 64 | 64 | .... | 50 | 54 | 51 | 50 | 55 | 52 | 50 | 51 | 55 | 52   | 50   | 46 | 47 | 42 | 55 | 53 | 52 | 49 | 48 | 46   |
| Butler.....        | Maximum | 85 | 86 | 87 | 87 | 91 | 95  | 96 | 96 | 90 | 84 | 77   | 78 | 78 | 84 | 86 | 88 | 89 | 88 | 80 | 58 | 59   | 56   | 56 | 44 | 60 | 55 | 60 | 52 | 60 | 53 | 49   |
|                    | Minimum | 63 | 60 | 59 | 57 | 58 | 60  | 60 | 68 | 65 | 60 | 52   | 54 | 62 | 51 | 54 | 57 | 53 | 58 | 60 | 58 | 59   | 56   | 56 | 44 | 60 | 55 | 60 | 52 | 60 | 53 | 49   |
| Carlisle.....      | Maximum | 91 | 81 | 98 | 91 | 95 | 99  | 98 | 95 | 96 | 85 | 71   | 74 | 84 | 83 | 89 | 90 | 92 | 90 | 88 | 78 | 73   | 77   | 71 | 88 | 87 | 78 | 77 | 87 | 84 | 79 | 81   |
|                    | Minimum | 63 | 65 | 68 | 72 | 59 | 61  | 61 | 64 | 65 | 63 | 60   | 61 | 63 | 64 | 68 | 61 | 57 | 64 | 68 | 64 | 62   | 57   | 59 | 54 | 54 | 63 | 60 | 62 | 62 | 49 | 51   |
| Catawissa.....     | Maximum | 89 | 80 | 98 | 91 | 98 | 100 | 98 | 93 | 80 | 83 | 77   | 71 | 83 | 85 | 92 | 89 | 90 | 93 | 83 | 85 | 77   | 85   | 76 | 88 | 84 | 84 | 79 | 83 | 83 | 79 | 82   |
|                    | Minimum | 60 | 58 | 72 | 66 | 59 | 58  | 58 | 66 | 67 | 62 | 60   | 61 | 60 | 64 | 69 | 63 | 57 | 60 | 63 | 59 | 62   | 52   | 54 | 52 | 55 | 59 | 62 | 57 | 56 | 48 | 48   |
| Chambersburg.....  | Maximum | 85 | 85 | 99 | 91 | 96 | 98  | 97 | 96 | 96 | 90 | 72   | 73 | 86 | 83 | 88 | 91 | 92 | 92 | 82 | 78 | 70   | 77   | 69 | 85 | 87 | 81 | 80 | 83 | 81 | 85 | 85   |
|                    | Minimum | 65 | 67 | 69 | 72 | 62 | 63  | 64 | 65 | 66 | 65 | 63   | 61 | 63 | 64 | 67 | 63 | 61 | 61 | 66 | 65 | 61   | 67   | 59 | 55 | 62 | 63 | 60 | 58 | 64 | 52 | 62   |
| Chambersville..... | Maximum | 84 | 92 | 88 | 85 | 88 | 91  | 92 | 90 | 86 | 77 | 74   | 76 | 80 | 84 | 87 | 88 | 88 | 89 | 75 | 75 | 71   | 75   | 76 | 82 | 81 | 77 | 73 | 78 | 71 | 77 | 81.5 |
|                    | Minimum | 59 | 62 | 69 | 60 | 54 | 57  | 51 | 65 | 65 | 63 | 50   | 54 | 55 | 51 | 57 | 54 | 54 | 59 | 63 | 59 | 57   | 51   | 54 | 45 | 60 | 58 | 58 | 52 | 62 | 49 | 51   |
| Claysville.....    | Maximum | 94 | 97 | 93 | 89 | 92 | 96  | 95 | 99 | 93 | 80 | 79   | 77 | 78 | 87 | 90 | 91 | 92 | 91 | 78 | 77 | 68   | 72   | 79 | 85 | 80 | 79 | 78 | 80 | 80 | 71 | 82   |
|                    | Minimum | 62 | 69 | 70 | 68 | 61 | 60  | 61 | 64 | 71 | 63 | 55   | 52 | 61 | 55 | 56 | 54 | 56 | 62 | 65 | 63 | 58   | 55   | 54 | 46 | 61 | 57 | 60 | 57 | 61 | 52 | 61   |
| Clearfield.....    | Maximum | 82 | 92 | 92 | 89 | 91 | 88  | 98 | 91 | 86 | 80 | 68   | 77 | 83 | 85 | 91 | 86 | 91 | 92 | 78 | 77 | 76   | 81   | 86 | 90 | 82 | 82 | 77 | 78 | 80 | 73 | 81   |
|                    | Minimum | 62 | 61 | 72 | 61 | 68 | 65  | 71 | 70 | 66 | 60 | 52   | 56 | 60 | 58 | 59 | 60 | 65 | 66 | 62 | 54 | 45   | 58   | 61 | 58 | 54 | 55 | 57 | 53 | 59 | 44 | 48   |
| Coatesville.....   | Maximum | 76 | 82 | 96 | 87 | 92 | 94  | 97 | 89 | 93 | 87 | 68   | 70 | 81 | 81 | 86 | 88 | 87 | 89 | 82 | 75 | 68   | 74   | 66 | 77 | 85 | 81 | 83 | 82 | 81 | 83 | 80   |
|                    | Minimum | 65 | 63 | 74 | 71 | 63 | 65  | 67 | 68 | 67 | 63 | 62   | 62 | 66 | 64 | 67 | 66 | 64 | 66 | 67 | 63 | 62   | 69   | 58 | 59 | 57 | 65 | 63 | 59 | 65 | 56 | 57   |
| Corry.....         | Maximum | 81 | 90 | 81 | 88 | 93 | 95  | 94 | 92 | 82 | 74 | 74   | 75 | 79 | 81 | 86 | 83 | 87 | 86 | 88 | 81 | 78   | 79   | 79 | 88 | 82 | 82 | 72 | 78 | 76 | 71 | 75   |
|                    | Minimum | 59 | 61 | 68 | 54 | 58 | 56  | 60 | 65 | 66 | 60 | 54   | 55 | 60 | 54 | 52 | 55 | 56 | 55 | 54 | 54 | 45   | 43   | 46 | 59 | 50 | 61 | 54 | 58 | 52 | 41 | 55.4 |
| Emporium.....      | Maximum | 74 | 83 | 85 | 82 | 85 | 87  | 88 | 83 | 82 | 72 | 74   | 75 | 78 | 80 | 83 | 82 | 82 | 84 | 79 | 76 | 72   | 75   | 75 | 78 | 75 | 77 | 73 | 75 | 75 | 70 | 72   |
|                    | Minimum | 60 | 58 | 66 | 60 | 60 | 60  | 60 | 65 | 67 | 63 | 55   | 58 | 63 | 62 | 60 | 57 | 55 | 60 | 64 | 55 | 53   | 48   | 50 | 52 | 57 | 61 | 60 | 56 | 62 | 49 | 53   |
| Erie.....          | Maximum | 74 | 91 | 80 | 87 | 88 | 92  | 91 | 82 | 80 | 74 | 72   | 75 | 76 | 80 | 82 | 83 | 84 | 86 | 80 | 77 | 74   | 76   | 78 | 82 | 75 | 74 | 72 | 79 | 72 | 70 | 79.2 |
|                    | Minimum | 63 | 68 | 68 | 66 | 72 | 69  | 70 | 69 | 71 | 65 | 64   | 62 | 64 | 62 | 63 | 67 | 68 | 68 | 64 | 60 | 58   | 61   | 60 | 65 | 61 | 63 | 61 | 63 | 56 | 53 | 64.2 |
| Franklin.....      | Maximum | 82 | 90 | 86 | 90 | 96 | 95  | 98 | 94 | 87 | 77 | 80   | 80 | 79 | 84 | 90 | 88 | 89 | 89 | 86 | 82 | 78   | 81   | 85 | 87 | 82 | 80 | 76 | 80 | 78 | 70 | 81   |
|                    | Minimum | 60 | 61 | 60 | 55 | 60 | 52  | 53 | 58 | 61 | 58 | 47   | 46 | 52 | 46 | 48 | 48 | 47 | 50 | 60 | 58 | 57   | 48   | 44 | 42 | 43 | 57 | 58 | 52 | 56 | 54 | 49   |
| Freeland.....      | Maximum | 70 | 69 | 89 | 79 | 87 | 86  | 90 | 87 | 74 | 67 | 64   | 77 | 76 | 78 | 81 | 80 | 81 | 78 | 76 | 69 | 71   | 65   | 73 | 80 | 74 | 72 | 74 | 73 | 74 | 71 | 76.0 |
|                    | Minimum | 55 | 60 | 66 | 62 | 66 | 67  | 70 | 67 | 63 | 60 | 57   | 56 | 60 | 62 | 65 | 64 | 60 | 64 | 64 | 56 | 58   | 52   | 53 | 52 | 60 | 58 | 60 | 59 | 61 | 54 | 60.1 |
| Genesee.....       | Maximum | 75 | 82 | 85 | 82 | 86 | 80  | 90 | 80 | 81 | 75 | 71   | 72 | 77 | 80 | 83 | 76 | 83 | 76 | 83 | 76 | 75   | .... | 75 | 74 | 80 | 76 | 79 | 71 | 72 | 73 | 67   |
|                    | Minimum | 55 | 51 | 58 | 52 | 55 | 52  | 53 | 56 | 67 | 62 | 50   | 56 | 60 | 53 | 55 | 49 | 50 | 53 | 60 | 48 | .... | 40   | 40 | 41 | 53 | 50 | 57 | 49 | 59 | 58 | 42   |
| Gettysburg.....    | Maximum | 86 | 80 | 97 | 94 | 94 | 96  | 97 | 96 | 94 | 85 | 66   | 69 | 81 | 78 | 86 | 89 | 85 | 89 | 83 | 79 | 70   | 76   | 66 | 78 | 85 | 80 | 77 | 82 | 77 | 82 | 81   |
|                    | Minimum | 67 | 68 | 75 | 73 | 64 | 66  | 63 | 66 | 66 | 65 | 62   | 61 | 64 | 66 | 68 | 63 | 64 | 65 | 68 | 63 | 57   | 58   | 58 | 60 | 63 | 61 | 53 | 65 | 55 | 56 | 63.7 |
| Greensburg.....    | Maximum | 90 | 94 | 92 | 86 | 86 | 92  | 95 | 94 | 91 | 82 | 74   | 78 | 83 | 88 | 87 | 89 | 89 | 87 | 76 | 75 | 69   | 72   | 73 | 81 | 79 | 77 | 75 | 78 | 78 | 70 | 78   |
|                    | Minimum | 64 | 67 | 70 | 67 | 60 | 64  | 64 | 67 | 70 | 65 | 56   | 58 | 60 | 65 | 61 | 57 | 59 | 63 | 64 | 62 | 60   | 54   | 58 | 50 | 62 | 61 | 60 | 56 | 62 | 52 | 54   |
| Grove City.....    | Maximum | 81 | 93 | 85 | 84 | 89 | 90  | 92 | 93 | 89 | 77 | 75   | 75 | 76 | 79 | 84 | 84 | 85 | 85 | 78 | 77 | 81   | 75   | 76 | 81 | 77 | 73 | 74 | 77 | 75 | 71 | 74   |
|                    | Minimum | 61 | 67 | 70 | 56 | 62 | 60  | 63 | 67 | 73 | 62 | 55   | 56 | 55 | 55 | 57 | 55 | 56 | 59 | 63 | 60 | 58   | 52   | 53 | 48 | 60 | 59 | 60 | 55 | 59 | 54 | 46   |
| Hamburg.....       | Maximum | 87 | 80 | 96 | 94 | 93 | 95  | 96 | 95 | 91 | 84 | 76   | 74 | 82 | 82 | 85 | 86 | 89 | 86 | 84 | 80 | 78   | 77   | 83 | 86 | 82 | 80 | 82 | 81 | 80 | 78 | 84.9 |
|                    | Minimum | 61 | 60 | 69 | 70 | 58 | 58  | 59 | 65 | 67 | 58 | 62   | 60 | 65 | 62 | 67 | 63 | 68 | 60 | 62 | 59 | 59   | 58   | 59 | 53 | 52 | 59 | 62 | 63 | 65 | 63 | 49   |
| Harrisburg.....    | Maximum | 77 | 79 | 95 | 89 | 94 | 96  | 98 | 96 | 88 | 71 | 70   | 64 | 65 | 63 | 65 | 68 | 70 | 67 | 67 | 70 | 67   | 64   | 62 | 59 | 60 | 64 | 65 | 65 | 62 | 64 | 58   |
|                    | Minimum | 67 | 67 | 74 | 69 | 64 | 66  | 68 | 68 | 68 | 71 | 70   | 64 | 65 | 63 | 65 | 68 | 70 | 67 | 67 | 70 | 67   | 64   | 62 | 59 | 60 | 64 | 65 | 65 | 62 | 64 | 58   |
| Hawley.....        | Maximum | 76 | 76 | 94 | 86 | 90 | 94  | 95 | 95 | 85 | 76 | 79   | 70 | 66 | 82 | 83 | 83 | 84 | 87 | 86 | 84 | 79   | 74   | 76 | 73 | 83 | 84 | 76 | 80 | 77 | 76 | 78   |
|                    | Minimum | 56 | 49 | 62 | 62 | 56 | 55  | 56 | 56 | 56 | 56 | 56   | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56   | 56   | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56   |
| Huntingdon.....    | Maximum | 80 | 83 | 95 | 87 | 93 | 94  | 96 | 90 | 90 | 82 | 74   | 73 | 83 | 84 | 80 | 81 | 90 | 89 | 90 | 84 | 80   | 71   | 76 | 83 | 79 | 83 | 79 | 80 | 78 | 80 | 81   |
|                    | Minimum | 63 | 65 | 69 | 64 | 58 |     |    |    |    |    |      |    |    |    |    |    |    |    |    |    |      |      |    |    |    |    |    |    |    |    |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

SEPTEMBER, 1931.

No. 9.

## GENERAL SUMMARY.

September, as a whole, was intensely hot and moderately dry. The temperature mean of 69.1° was the highest for any September during the 44 years of the State Weather Service. A maximum of 104° was reported at Lykens on the 12th and at Holtwood on the 13th, and was the highest September temperature ever recorded in the State. The temperatures were constantly above the normal from the 1st to the 24th, inclusive, and at times the excess was as much as 15° or 16°. There was an unusually large number of days with maximum temperatures 90° or higher, while an extreme of 100° or higher was recorded at about one-half of the stations. Maximum temperatures of 100° or higher were recorded at several stations on more than one date. The winds were light a large part of the time and the heat was very oppressive. The temperature fell sharply after the 24th, and frost and freezing occurred at many places with no important damage. The rainfall was above the normal in most of the western counties, while there was a fairly large deficiency elsewhere, and a moderate deficiency in the mean for the State. In a few southeastern counties, and in a fairly large area in the central portion of the State, the rains were about one-half of the September normal. In these drier regions the crops matured rapidly, and sometimes prematurely, while pastures and other late feed became short and deteriorated in quality. Corn ripened rapidly, but generally not prematurely, and in the greater portion of the State it was considered as a bumper crop. Silo filling began early in the month, and was generally completed at about the end of the third week, at which time cutting and shocking were in full swing in the southern counties. Wheat seeding began about the middle of the month, and was well advanced at its close. The ground was too dry in some sections, but was in fair to good condition in the greater part of the State. Excepting the drier regions, the pastures held up well, and were providing ample feed at the close of the month. Oats threshing was practically finished in the northern counties by the middle of the month. The yields were moderate, and much of the grain was light. Late potatoes were generally reported as fair, and in sections where spraying was properly done the crop was good. Combined with an excellent early crop they promised to bring the total returns above the 10-year average. Late truck crops were mostly fair, but matured rapidly, especially in the drier regions. The tobacco crop was generally good, and was mostly cut and housed by the end of the third week. Peach gathering continued until about that time with one of the largest crops in recent years. Prices were so low that in many instances they barely covered the cost of gathering and marketing, leaving no profit for the grower. Thousands of bushels of fruit were allowed to go to waste. Apples were plentiful and of good quality, but fell from the trees more than usual in the northeastern portion of the State. Buckwheat harvest began

during the third week, and was generally reported as a good crop. The month was unusually free from severe or damaging local storms.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 90 stations, was 69.1° an excess of 5.0° as compared with the September normal. The highest monthly mean was 76.8°, at Holtwood, and the lowest, 61.8° at Gouldsboro. Extremes for the month ranged from a maximum of 104°, at Lykens on the 12th and at Holtwood on the 13th, to a minimum of 29°, at Ridgway on the 29th and 30th and at Genesee on the 29th. The greatest daily range of temperature was 48°, at Franklin on the 9th.

## PRECIPITATION.

The average precipitation for the State, as determined by the reports from 146 well-distributed stations, was 3.15 inches, which is 0.31 inch less than the monthly normal. The greatest monthly amount was 6.65 inches, at Saltsburg, while the lowest, 0.74 inch, was reported from Marcus Hook. The greatest amount recorded in any 24 consecutive hours was 2.65 inches, at Butler on the 1st-2d.

## COMPARATIVE DATA FOR SEPTEMBER

| Year            | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                 | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....       | 59.6        | .....   | .....  | 4.84          | .....    | ..... | .....       | .....         | .....  | .....                  |
| 1889.....       | 61.9        | .....   | .....  | 5.05          | .....    | ..... | .....       | .....         | .....  | .....                  |
| 1890.....       | 62.2        | 91      | 25     | 4.57          | 8.54     | 2.05  | 10          | 9             | 11     | 11                     |
| 1891.....       | 66.6        | 94      | 32     | 2.39          | 5.00     | 1.05  | 17          | 8             | 5      | .....                  |
| 1892.....       | 62.4        | 90      | 29     | 2.81          | 4.85     | 1.18  | 16          | 7             | 7      | 7                      |
| 1893.....       | 61.2        | 90      | 26     | 2.67          | 5.59     | 0.72  | 9           | 12            | 9      | 8                      |
| 1894.....       | 66.6        | 95      | 24     | 6.30          | 12.36    | 2.82  | 10          | 10            | 10     | 10                     |
| 1895.....       | 67.8        | 100     | 24     | 1.71          | 5.41     | 0.37  | 16          | 9             | 5      | 6                      |
| 1896.....       | 63.6        | 98      | 26     | 4.82          | 8.57     | 1.73  | 13          | 8             | 9      | 10                     |
| 1897.....       | 63.8        | 100     | 24     | 2.18          | 4.21     | 0.25  | 18          | 7             | 5      | 5                      |
| 1898.....       | 66.0        | 100     | 25     | 1.70          | 3.95     | 0.38  | 16          | 8             | 6      | 6                      |
| 1899.....       | 61.8        | 93      | 23     | 4.70          | 9.31     | 2.03  | 12          | 9             | 9      | 10                     |
| 1900.....       | 68.4        | 100     | 27     | 1.77          | 6.90     | 0.48  | 13          | 10            | 7      | 6                      |
| 1901.....       | 63.6        | 95      | 29     | 3.39          | 6.61     | 1.64  | 14          | 7             | 9      | 9                      |
| 1902.....       | 62.7        | 99      | 28     | 4.66          | 11.95    | 1.50  | 12          | 8             | 10     | 11                     |
| 1903.....       | 63.2        | 94      | 27     | 2.09          | 3.88     | 0.91  | 17          | 8             | 5      | 6                      |
| 1904.....       | 63.7        | 95      | 21     | 3.37          | 7.40     | 0.82  | 13          | 10            | 7      | 9                      |
| 1905.....       | 64.0        | 95      | 27     | 3.41          | 7.30     | 1.70  | 15          | 9             | 6      | 7                      |
| 1906.....       | 67.0        | 99      | 30     | 2.46          | 6.57     | 0.36  | 15          | 9             | 6      | 7                      |
| 1907.....       | 64.8        | 95      | 29     | 6.37          | 11.86    | 2.18  | 8           | 10            | 12     | 14                     |
| 1908.....       | 65.6        | 99      | 26     | 1.60          | 4.06     | 0.51  | 17          | 9             | 4      | 3                      |
| 1909.....       | 62.8        | 96      | 26     | 2.27          | 4.90     | 0.64  | 15          | 9             | 6      | 6                      |
| 1910.....       | 65.5        | 95      | 32     | 4.49          | 8.45     | 2.26  | 13          | 8             | 9      | 10                     |
| 1911.....       | 64.9        | 92      | 26     | 5.29          | 10.18    | 1.85  | 13          | 9             | 8      | 10                     |
| 1912.....       | 65.5        | 95      | 25     | 5.57          | 11.43    | 2.47  | 12          | 7             | 11     | 12                     |
| 1913.....       | 62.4        | 97      | 24     | 3.28          | 8.43     | 1.24  | 13          | 7             | 10     | 8                      |
| 1914.....       | 61.5        | 98      | 21     | 0.99          | 2.67     | 0.03  | 18          | 7             | 5      | 5                      |
| 1915.....       | 66.5        | 96      | 25     | 2.56          | 6.96     | 0.45  | 16          | 9             | 5      | 8                      |
| 1916.....       | 62.5        | 98      | 23     | 3.77          | 8.18     | 0.91  | 17          | 8             | 5      | 8                      |
| 1917.....       | 59.0        | 91      | 25     | 2.31          | 6.34     | 0.00  | 16          | 9             | 5      | 6                      |
| 1918.....       | 58.7        | 88      | 28     | 3.97          | 7.52     | 1.82  | 12          | 8             | 10     | 10                     |
| 1919.....       | 64.4        | 96      | 28     | 2.07          | 4.09     | 0.46  | 16          | 8             | 6      | 8                      |
| 1920.....       | 64.5        | 91      | 24     | 3.99          | 9.40     | 0.97  | 16          | 8             | 6      | 9                      |
| 1921.....       | 68.9        | 98      | 31     | 4.68          | 11.48    | 1.47  | 13          | 9             | 8      | 11                     |
| 1922.....       | 66.3        | 100     | 22     | 1.48          | 3.73     | 0.17  | 19          | 7             | 4      | 4                      |
| 1923.....       | 64.8        | 92      | 22     | 3.55          | 8.68     | 1.54  | 13          | 10            | 7      | 10                     |
| 1924.....       | 59.8        | 99      | 26     | 6.44          | 11.72    | 3.46  | 11          | 7             | 12     | 11                     |
| 1925.....       | 67.5        | 99      | 24     | 2.80          | 7.83     | 0.86  | 11          | 12            | 7      | 8                      |
| 1926.....       | 64.2        | 99      | 26     | 5.81          | 13.90    | 2.23  | 11          | 7             | 12     | 12                     |
| 1927.....       | 64.9        | 97      | 27     | 2.08          | 7.00     | 0.20  | 18          | 7             | 5      | 6                      |
| 1928.....       | 60.4        | 94      | 25     | 2.33          | 5.73     | 0.71  | 12          | 9             | 9      | 9                      |
| 1929.....       | 65.7        | 101     | 24     | 3.71          | 8.72     | 1.05  | 14          | 8             | 8      | 9                      |
| 1930.....       | 67.8        | 101     | 27     | 2.45          | 7.01     | 0.64  | 15          | 10            | 5      | 9                      |
| 1931.....       | 69.1        | 104     | 29     | 3.15          | 6.65     | 0.74  | 16          | 8             | 6      | 9                      |
| Normal and..... | 64.1        | .....   | .....  | 3.46          | .....    | ..... | 14          | 9             | 7      | 9                      |
| Extremes.....   | .....       | 104     | 21     | .....         | 13.90    | 0.00  | .....       | .....         | .....  | .....                  |



## Climatological Data for September, 1931

| Stations              | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        | Precipitation, in inches |                      |       |                           | No. of days          |                           |                              |       | Prevailing direction of wind | Observers |            |                             |
|-----------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|--------------------------|----------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                       |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date                     | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage.    |                   |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown.....        | Lehigh.....       | 254             | 19                      | 69.4                         | .....                     | 95      | 10†  | 39     | 29                       | 37                   | 1.65  | -1.70                     | 0.49                 | 0                         | 9                            | 21    | 2                            | 7         | s.         | John A. Frick.              |
| Altoona.....          | Blair.....        | 1,615           | 44                      | 68.8                         | +5.7                      | 95      | 12   | 37     | 29                       | 35                   | 3.75  | +0.88                     | 1.05                 | 0                         | 11                           | 22    | 2                            | 6         | w.         | F. E. Rooney.               |
| Ardmore.....          | Montgomery.....   | 350             | .....                   | 69.0                         | +1.7                      | 92      | 11   | 42     | 29                       | 29                   | 1.31  | -2.64                     | 0.65                 | 0                         | 3                            | 25    | 4                            | 1         | n.         | H. G. Balderston.           |
| Arendtsville.....     | Adams.....        | 700             | 9                       | 72.0                         | .....                     | 101     | 12   | 43     | 25                       | 37                   | 3.42  | .....                     | 1.44                 | 0                         | 7                            | 19    | 7                            | 4         | nw.        | Dr. S. W. Frost.            |
| Bedford.....          | Bedford.....      | 1,060           | .....                   | 69.8                         | .....                     | 95      | 12   | 35     | 29                       | 41                   | 2.97  | .....                     | 0.92                 | 0                         | 10                           | 19    | 7                            | 4         | nw.        | Charles C. Lee.             |
| Bellefonte.....       | Center.....       | 1,050           | 23                      | 66.9                         | +2.0                      | 94      | 12   | 33     | 29                       | 39                   | 2.46  | -0.65                     | 1.37                 | 0                         | 9                            | 9     | 9                            | 12        | sw.        | U. S. Weather Bureau.       |
| Bethlehem.....        | Northampton.....  | 364             | 46                      | 71.9                         | +5.2                      | 97      | 11   | 44     | 29                       | 33                   | 2.34  | -1.00                     | 0.61                 | 0                         | 8                            | 21    | 1                            | 8         | sw.        | Lehigh University.          |
| Carlisle.....         | Cumberland.....   | 467             | 65                      | 72.0                         | +6.8                      | 100     | 10†  | 37     | 29                       | 40                   | 3.12  | -0.36                     | 2.05                 | 0                         | 8                            | 20    | 7                            | 3         | s.         | Prof. C. E. Miller.         |
| Catawissa.....        | Columbia.....     | 520             | 35                      | 70.7                         | +6.7                      | 100     | 12†  | 36     | 29                       | 40                   | 1.23  | -2.19                     | 0.40                 | 0                         | 7                            | 21    | 4                            | 5         | sw.        | W. L. Gearhart.             |
| Center Hall.....      | Center.....       | 1,272           | 35                      | 64.5                         | +2.3                      | 97      | 12   | 30     | 29                       | 45                   | 1.38  | -1.69                     | 0.38                 | 0                         | 5                            | 23    | 0                            | 7         | w.         | S. W. Smith.                |
| Chambersburg.....     | Franklin.....     | 580             | 32                      | 72.6                         | +6.5                      | 100     | 11   | 38     | 29                       | 38                   | 3.31  | +0.36                     | 0.86                 | 0                         | 12                           | 15    | 12                           | 3         | s.         | William B. Spear.           |
| Clearfield.....       | Clearfield.....   | 1,120           | 24                      | 69.8                         | +5.9                      | 100     | 12   | 32     | 29                       | 43                   | 3.89  | +0.41                     | 1.15                 | 0                         | 9                            | 15    | 8                            | 7         | w.         | E. W. Hess.                 |
| Coatesville.....      | Chester.....      | 380             | 44                      | 71.4                         | +5.2                      | 97      | 12   | 44     | 29                       | 33                   | 2.03  | -1.81                     | 0.72                 | 0                         | 5                            | 18    | 4                            | 8         | nw.        | Howard L. Pyle.             |
| Colebrook.....        | Lebanon.....      | 560             | 20                      | 68.8                         | +4.6                      | 93      | 11†  | 35     | 29                       | 39                   | 2.36  | -1.21                     | 1.00                 | 0                         | 7                            | 21    | 3                            | 6         | w.         | Wm. A. Rorer.               |
| Emporium.....         | Cameron.....      | 1,050           | 44                      | 65.8                         | +4.4                      | 88      | 10†  | 38     | 29                       | 37                   | 4.67  | +1.18                     | 2.01                 | 0                         | 11                           | 10    | 14                           | 6         | w.         | T. B. Lloyd.                |
| Ephrata.....          | Lancaster.....    | 380             | 39                      | 70.4                         | +4.6                      | 94      | 11†  | 41     | 29                       | 32                   | 3.15  | -0.32                     | 1.72                 | 0                         | 6                            | 17    | 7                            | 6         | n.         | Ira J. Keath.               |
| Freeland.....         | Luzerne.....      | 1,970           | 38                      | 66.0                         | +6.4                      | 94      | 12   | 39     | 25                       | 27                   | 3.39  | -0.39                     | 1.37                 | 0                         | 13                           | 10    | 12                           | 8         | nw.        | Theo. Reichmann.            |
| George School.....    | Bucks.....        | 190             | 25                      | 71.9                         | +5.9                      | 96      | 10†  | 42     | 29                       | 34                   | 1.09  | -2.18                     | 0.60                 | 0                         | 7                            | 20    | 6                            | 4         | sw.        | Prof. N. W. Swayne          |
| Gettysburg.....       | Adams.....        | 553             | 58                      | 72.2                         | +6.6                      | 97      | 12   | 42     | 29                       | 31                   | 2.47  | -0.97                     | 0.78                 | 0                         | 11                           | 18    | 7                            | 5         | s.         | Dr. Henry Stewart           |
| Gordon.....           | Schuylkill.....   | 840             | 27                      | 67.6                         | +5.3                      | 95      | 12†  | 31     | 29                       | 40                   | 1.19  | -3.04                     | 0.63                 | 0                         | 3                            | 17    | 7                            | 6         | w.         | Sallie M. Johnson.          |
| Gouldsboro.....       | Wayne.....        | 1,875           | 16                      | 61.8                         | .....                     | 87      | 12   | 33     | 29                       | 32                   | 1.83  | -1.81                     | 1.05                 | 0                         | 6                            | 23    | 4                            | 3         | w.         | Gustav Holtz.               |
| Hamburg.....          | Berks.....        | 535             | 38                      | 70.6                         | +5.3                      | 97      | 12   | 38     | 30                       | 37                   | 2.01  | -2.04                     | 0.86                 | 0                         | 6                            | 23    | 6                            | 1         | w.         | State Sanatorium.           |
| Hanover.....          | York.....         | 600             | 27                      | 73.4                         | +5.8                      | 99      | 12   | 42     | 29                       | 33                   | 3.18  | +0.08                     | 0.99                 | 0                         | 8                            | 18    | 5                            | 7         | s.         | Thomas Y. Cooper.           |
| Harrisburg.....       | Dauphin.....      | 361             | 62                      | 72.1                         | +6.3                      | 97      | 11   | 48     | 29                       | 30                   | 3.35  | +0.30                     | 1.26                 | 0                         | 7                            | 16    | 6                            | 8         | w.         | U. S. Weather Bureau.       |
| Hawley.....           | Wayne.....        | 900             | 13                      | 65.6                         | +3.9                      | 95      | 12   | 34     | 29                       | 40                   | 2.21  | -1.15                     | 0.67                 | 0                         | 7                            | 15    | 14                           | 1         | w.         | Mrs. Della M. Pennell.      |
| Holtwood.....         | Lancaster.....    | 200             | 16                      | 76.8                         | +7.8                      | 104     | 13   | 50     | 29                       | 32                   | 1.91  | -0.60                     | 0.76                 | 0                         | 7                            | 14    | 12                           | 4         | .....      | H. W. Lowy, C. E.           |
| Huntingdon.....       | Huntingdon.....   | 650             | 44                      | 69.8*                        | +5.2                      | 97*     | 10   | 37*    | 28                       | 43*                  | 4.21  | +0.90                     | 1.00                 | 0                         | 11                           | 15    | 9                            | 6         | w.         | Prof. Paul R. Yoder.        |
| Hyndman.....          | Bedford.....      | 977             | 19                      | 70.8                         | +5.4                      | 100     | 13   | 36     | 29                       | 41                   | 2.72  | -0.25                     | 1.26                 | 0                         | 13                           | 13    | 10                           | 7         | w.         | Horace A. Sheavly.          |
| Lancaster.....        | Lancaster.....    | 255             | 44                      | 69.4                         | +3.9                      | 98      | 12   | 36     | 29                       | 38                   | 2.81  | -0.55                     | 1.43                 | 0                         | 6                            | 25    | 4                            | 1         | w.         | Supt. of Water Works.       |
| Lawrenceville.....    | Tioga.....        | 1,000           | 34                      | 67.0                         | +5.5                      | 98      | 12   | 32     | 29                       | 44                   | 3.92  | +0.91                     | 1.35                 | 0                         | 11                           | 16    | 9                            | 5         | .....      | C. P. Darling.              |
| Lebanon.....          | Lebanon.....      | 469             | 47                      | 71.6                         | +6.0                      | 98      | 10†  | 40     | 29                       | 35                   | 1.52  | -1.81                     | 0.78                 | 0                         | 8                            | 17    | 8                            | 5         | w.         | S. B. Benzing.              |
| Lewisburg.....        | Union.....        | 450             | 55                      | 71.1                         | +4.7                      | 100     | 10†  | 37     | 29                       | 38                   | 1.84  | -1.65                     | 0.53                 | 0                         | 8                            | 19    | 4                            | 7         | w.         | Prof. W. G. Owens.          |
| Lock Haven.....       | Clinton.....      | 560             | 41                      | 71.5                         | +6.7                      | 101     | 10   | 38     | 29                       | 40                   | 2.37  | -1.04                     | 0.84                 | 0                         | 11                           | 13    | 14                           | 3         | sw.        | Joseph Beaver.              |
| Lykens.....           | Dauphin.....      | 680             | 16                      | 69.9                         | +5.5                      | 104     | 12   | 34     | 29                       | 44                   | 1.97  | -2.33                     | 0.78                 | 0                         | 8                            | 20    | 8                            | 2         | nw.        | Susquehanna Collieries Co.  |
| Marcus Hook.....      | Delaware.....     | 50              | 4                       | 76.4†                        | .....                     | 101†    | 11   | 47†    | 29                       | 38†                  | 0.74  | .....                     | 0.70                 | 0                         | 2                            | 22    | 4                            | 4         | sw.        | Sun Oil Co.                 |
| Mauch Chunk.....      | Carbon.....       | 600             | 42                      | 69.2                         | +5.0                      | 100     | 10   | 37     | 30                       | 42                   | 2.96  | -1.04                     | 1.10                 | 0                         | 7                            | 21    | 4                            | 5         | sw.        | R. K. Wintermute.           |
| Mifflintown.....      | Junata.....       | 445             | 27                      | 70.4                         | +5.9                      | 99      | 12   | 36     | 29                       | 40                   | 2.25  | -1.23                     | 0.91                 | 0                         | 9                            | 19    | 5                            | 6         | w.         | Wellington Smith.           |
| Montrose.....         | Susquehanna.....  | 1,720           | 27                      | 63.8                         | +3.3                      | 91      | 12   | 30     | 1                        | 40                   | 3.53  | -0.36                     | 1.35                 | 0                         | 6                            | 20    | 6                            | 4         | w.         | Silas Jagger.               |
| Mt. Pocono.....       | Monroe.....       | 1,658           | 25                      | 62.0                         | +3.6                      | 88      | 22   | 34     | 29                       | 32                   | 1.82  | -3.14                     | 0.60                 | 0                         | 6                            | 20    | 2                            | 8         | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley.....     | Sullivan.....     | 1,045           | 19                      | 65.6                         | +4.1                      | 98      | 11   | 32     | 29                       | 42                   | 2.21  | -1.64                     | 0.80                 | 0                         | 7                            | 21    | 5                            | 4         | w.         | H. O. Hacker.               |
| Neshaminy Falls††     | Bucks.....        | 60              | 42                      | 70.4                         | +5.0                      | 97      | 11   | 43     | 29                       | 37                   | 0.98  | -2.42                     | 0.55                 | 0                         | 7                            | 24    | 0                            | 6         | e.         | North Springfield Water Co. |
| Palmerton.....        | Carbon.....       | 398             | 13                      | 68.0                         | .....                     | 94      | 10   | 38     | 29                       | 37                   | 2.84  | -0.63                     | 1.24                 | 0                         | 7                            | 18    | 5                            | 7         | nw.        | New Jersey Zinc Co.         |
| Philadelphia.....     | Philadelphia..... | 114             | 60                      | 74.1                         | +6.1                      | 97      | 11   | 50     | 29                       | 23                   | 1.60  | -1.54                     | 0.97                 | 0                         | 4                            | 13    | 10                           | 7         | sw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn..... | Philadelphia..... | 113             | 7                       | 74.0                         | .....                     | 98      | 11   | 47     | 29                       | 32                   | 1.73  | .....                     | 0.80                 | 0                         | 5                            | 13    | 10                           | 7         | .....      | Julius Bernstein.           |
| Phila. Navy Yard..... | Philadelphia..... | 12              | 15                      | 73.3                         | +5.1                      | 97      | 11   | 49     | 29                       | 25                   | 1.57  | -1.58                     | 1.23                 | 0                         | 6                            | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |
| Phoenixville.....     | Chester.....      | 100             | 21                      | 72.8                         | +6.1                      | 98      | 11   | 41     | 29                       | 36                   | 1.98  | -1.27                     | 0.60                 | 0                         | 6                            | 23    | 5                            | 2         | s.         | North Springfield Water Co. |
| Quakertown.....       | Bucks.....        | 496             | 46                      | 69.6                         | +5.6                      | 94      | 10†  | 38     | 30                       | 37                   | 2.70  | -0.91                     | 2.15                 | 0                         | 8                            | 19    | 4                            | 7         | nw.        | John E. Benner.             |
| Reading.....          | Berks.....        | 325             | 59                      | 72.0                         | +5.7                      | 99      | 12   | 46     | 29                       | 35                   | 2.79  | -0.42                     | 2.17                 | 0                         | 4                            | 15    | 8                            | 7         | sw.        | U. S. Weather Bureau.       |
| Scranton.....         | Lackawanna.....   | 805             | 37                      | 68.4                         | +5.5                      | 97      | 12   | 41     | 29                       | 35                   | 2.09  | -1.08                     | 0.97                 | 0                         | 9                            | 13    | 10                           | 7         | sw.        | U. S. Weather Bureau.       |
| Selinsgrove.....      | Snyder.....       | 455             | 41                      | 70.0                         | +5.2                      | 97      | 10†  | 35     | 29                       | 38                   | 1.25  | -2.27                     | 0.52                 | 0                         | 4                            | 18    | 8                            | 4         | sw.        | Dr. George E. Fisher.       |
| Shawmont††            | Philadelphia..... | 51              | 35                      | 72.7                         | +4.6                      | 93      | 11†  | 45     | 29                       | 29                   | 1.34  | -1.94                     | 0.58                 | 0                         | 6                            | 15    | 11                           | 4         | s.         | W. S. Guiles.               |
| State College.....    | Center.....       | 1,217           | 47                      | 67.8                         | +5.2                      | 98      | 12   | 38     | 29                       | 33                   | 1.76  | -1.30                     | 0.65                 | 0                         | 7                            | 15    | 10                           | 5         | w.         | C. A. Kern.                 |
| Stroudsburg.....      | Monroe.....       | 500             | 17                      | 67.6                         | +5.2                      | 97      | 11   | 36     | 29†                      | 39                   | 3.16  | +0.27                     | 1.40                 | 0                         | 8                            | 15    | 5                            | 10        | nw.        | State Normal School.        |
| Towanda.....          | Bradford.....     | 754             | 37                      | 65.9                         | +3.6                      | 95      | 10   | 36     | 29                       | 40                   | 3.33  | +0.18                     | 1.65                 | 0                         | 8                            | 15    | 7                            | 8         | sw.        | Hiram E. Bull, C. E.        |
| Wellsboro.....        | Tioga.....        | 1,419           | 61                      | 65.6                         | +5.9                      | 98      | 12   | 30     | 29                       | 43                   | 3.79  | +0.63                     | 1.11                 | 0                         | 8                            | 19    | 4                            | 7         | sw.        | George W. Hill.             |
| West Chester.....     | Chester.....      | 455             | 82                      | 71.1                         | +5.6                      | 92      | 11†  | 46     | 29                       | 26                   | 1.56  | -2.33                     | 0.65                 | 0                         | 5                            | 18    | 8                            | 4         | w.         | Joseph W. Belt.             |
| Williamsport.....     | Lycoming.....     | 521             | 45                      | 70.5                         | +6.1                      | 100     | 12   | 40     | 25†                      | 41                   | 1.90  | -1.37                     | 0.82                 | 0                         | 9                            | 13    | 7                            | 10        | nw.        | Miss Veronica E. April.     |
| York.....             | York.....         | 400             | 43                      | 72.1                         | +6.9                      | 100     | 12   | 36     | 29                       | 41                   | 2.62  | -0.69                     | 1.19                 | 0                         | 9                            | 17    | 10                           | 3         | w.         | York Water Co.              |
| Ohio Drainage.        |                   |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam††          | Beaver.....       | 700             | 39                      | 70.8                         | +4.6                      | 96      | 22   | 39     | 29                       | 36                   | 4.23  | +1.17                     | 1.54                 | 0                         | 10                           | 9     | 8                            | 13        | sw.        | U. S. Engineer.             |
| Bradford.....         | McKean.....       | 1,460           | 12                      | 63.6                         | +3.2                      | 91      | 9†   | 33     | 25†                      | 42                   | 3.31  | -1.10                     | 1.00                 | 0                         | 12                           | 13    | 6                            | 11        | sw.        | Supt. Timber Pres. Plant.   |
| Brookville.....       | Jefferson.....    | 1,173           | 41                      | 65.2                         | +5.1                      | 94      | 13   | 30     | 30                       | 41                   | 3.11  | -0.22                     | 0.94                 | 0                         | 10                           | 20    | 7                            | 3         | .....      | John Fawcett.               |
| Butler.....           | Butler.....       | 1,152           | 17                      | 69.0                         | .....                     | 95      | 10†  | 33     | 29</                     |                      |       |                           |                      |                           |                              |       |                              |           |            |                             |



Daily Precipitation for September, 1931

| Stations           | Drainage Basin | Day of month |      |      |     |     |   |    |   |     |    |     |    |     |     |      |      |     |     |     |     |      |     |     |     |      |      |     |     |    |     |      | Total |      |
|--------------------|----------------|--------------|------|------|-----|-----|---|----|---|-----|----|-----|----|-----|-----|------|------|-----|-----|-----|-----|------|-----|-----|-----|------|------|-----|-----|----|-----|------|-------|------|
|                    |                | 1            | 2    | 3    | 4   | 5   | 6 | 7  | 8 | 9   | 10 | 11  | 12 | 13  | 14  | 15   | 16   | 17  | 18  | 19  | 20  | 21   | 22  | 23  | 24  | 25   | 26   | 27  | 28  | 29 | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |      |      |     |     |   |    |   |     |    |     |    |     |     |      |      |     |     |     |     |      |     |     |     |      |      |     |     |    |     |      |       |      |
| Allentown\|\|\| | Lehigh         |              |      | .49  |     |     |   |    |   |     |    |     |    |     | .20 | .38  | .02  | .10 |     |     |     |      | .16 |     |     | .01  | .27  | .02 |     |    |     |      | 1.65  |      |
| Altoona            | Juniata        | 1.05         | .03  | .06  | T.  |     |   |    |   |     |    | T.  |    |     |     | .12  | .54  | .03 |     |     | .49 | T.   |     | .14 | .18 |      | 1.03 | .08 |     |    |     |      | 3.75  |      |
| Ansonia\|\|\| | W. Br. Susq.   | .04          | 1.48 | .53  | .03 |     |   |    |   |     |    |     |    |     | .09 | .05  | .38  | .04 |     |     | .05 |      |     | .12 |     |      | .31  | T.  |     |    |     |      | 3.12  |      |
| Ardmore            | Lower Del.     |              |      | 1.44 |     |     |   |    |   |     |    |     |    |     |     |      |      | .52 |     |     | .14 |      |     |     |     |      | .65  |     |     |    |     |      | 1.31  |      |
| Arendtsville\|\|\| | Lower Susq.    |              |      |      |     |     |   |    |   |     |    |     |    |     |     |      | .35  | .68 |     |     | .14 | .02  |     | .12 |     |      | .67  |     |     |    |     | 3.42 |       |      |
| Baker's Summit     | Juniata        |              | .40  |      |     | .05 |   |    |   |     |    |     |    |     | .20 |      | .18  | .44 | .28 |     | .09 | 1.05 |     | .21 | .05 |      | .90  | .13 |     |    |     |      | 3.98  |      |
| Bedford            | Juniata        |              | .14  | .24  | .01 | T.  |   |    |   |     |    |     |    |     | T.  |      | .35  | .14 | .73 |     |     | .14  |     | .28 |     |      | .92  |     | .02 |    |     |      | 2.97  |      |
| Bellefonte***      | W. Br. Susq.   | T.           | 1.37 | T.   | .05 | T.  |   |    |   |     |    |     |    |     | T.  | .07  | .04  |     |     |     | .01 |      | T.  | .08 | .46 |      | .27  | .11 |     |    |     |      | 2.46  |      |
| Bethlehem          | Lehigh         |              | .05  | .58  |     |     |   |    |   |     |    |     |    |     | .17 | .32  |      | .61 |     |     |     | .24  | .01 |     |     |      | .36  |     |     |    |     |      | 2.34  |      |
| Bloersville\|\|\| | Lower Susq.    |              |      | .90  |     |     |   |    |   |     |    |     |    |     | .25 |      | .32  | .75 |     |     |     | .52  |     | .01 |     |      | .57  |     |     |    |     |      | 2.99  |      |
| Carlisle           | Lower Susq.    |              | .91  | 1.14 | T.  |     |   |    |   |     |    |     |    |     | T.  |      | .17  | .29 |     |     | .07 | .04  |     | .03 |     |      | .47  |     |     |    |     |      | 3.12  |      |
| Catawissa          | N. Br. Susq.   | .20          | .40  |      |     |     |   |    |   |     |    |     |    |     |     | .01  | .09  | T.  |     |     | .10 |      |     |     | .11 | .32  |      |     |     |    |     |      | 1.23  |      |
| Center Hall        | Susquehanna    |              | .34  | .12  |     |     |   |    |   |     |    |     |    |     |     |      | .20  |     |     |     |     |      |     |     |     | .38  | .34  |     |     |    |     |      | 1.38  |      |
| Chambersburg       | Potomac        |              | .53  | .75  |     | .01 |   |    |   |     |    |     |    |     | .34 |      | .04  | .09 | .28 |     | .02 | .05  |     | .31 | T.  |      | .86  |     |     |    | .03 |      | 3.31  |      |
| Clearfield         | W. Br. Susq.   |              | .81  | .05  |     |     |   |    |   |     |    |     |    |     | .37 | .11  | .27  | .31 |     |     | .60 |      | .22 | T.  |     | 1.15 | T.   |     |     |    |     |      | 3.89  |      |
| Coatesville        | Lower Del.     |              |      | .72  |     |     |   |    |   |     |    |     |    |     | .46 |      | .02  |     |     |     | .20 |      |     | T.  |     | .63  |      |     |     |    |     |      | 2.03  |      |
| Colebrook          | Lower Susq.    | 1.00         | .22  |      |     |     |   |    |   |     |    |     |    |     | T.  | T.   | .02  | .14 | T.  |     | .23 |      |     | .01 |     | .74  |      |     |     |    |     |      | 2.36  |      |
| Conshohocken       | Schuylkill     |              | T.   |      |     |     |   |    |   |     |    |     |    |     | T.  |      | .17  | .51 |     |     | T.  |      |     |     | T.  |      | .30  |     |     |    |     |      | 0.98  |      |
| Cresson            | Juniata        | 1.13         | .28  | .09  |     |     |   |    |   |     |    |     |    |     |     | .75  | 1.40 |     |     |     | .57 |      |     | .29 |     |      | 1.08 |     |     |    |     |      | 5.59  |      |
| Doylestown         | Lower Del.     |              | 1.01 |      |     |     |   |    |   |     |    |     |    |     |     | .04  |      | .15 |     |     | .06 |      |     |     |     |      | .78  |     |     |    |     |      | 2.04  |      |
| Driftwood\|\|\| | W. Br. Susq.   |              |      |      |     |     |   |    |   |     |    |     |    |     |     | .45  | .73  | .18 |     |     | .09 |      |     |     | .15 | .31  | .36  |     |     |    |     |      | 4.67  |      |
| Emporium           | W. Br. Susq.   | 2.01         | .15  | .18  |     |     |   |    |   | .06 |    |     |    |     |     | .20  | T.   | .10 | T.  |     | .36 | T.   |     |     |     | .15  | .31  | .36 |     |    |     |      |       | 3.15 |
| Ephrata            | Lower Susq.    | 1.72         | .42  |      |     |     |   |    |   |     |    |     |    |     |     | .67  | .48  | .42 | .13 |     | .07 | .32  |     |     |     |      | .35  |     |     |    |     |      | 3.38  |      |
| Forest City        | N. Br. Susq.   |              | .06  | .92  |     |     |   |    |   |     |    | .09 |    | .01 |     | 1.37 | .09  | .46 |     |     | .01 | .09  | T.  | .03 | .09 |      | .38  | .03 |     |    |     |      | 3.39  |      |
| Freeland\|\|\| | Lehigh         |              | .09  | .65  |     |     |   |    |   |     |    |     |    |     |     |      | .37  | .09 | .46 |     |     | .03  |     |     | .30 |      | .35  | .03 |     |    |     |      | 4.51  |      |
| Galeton            | W. Br. Susq.   | 2.25         | .14  |      | .12 |     |   |    |   |     |    |     |    |     | .14 | .15  | .45  | .55 |     |     | .04 | T.   | T.  |     | T.  |      | .60  | .01 |     |    |     |      | 1.09  |      |
| George School      | Lower Del.     |              |      | .25  |     |     |   |    |   |     |    |     |    |     |     | .01  | .17  | .01 |     |     | .04 | T.   | T.  |     | .19 |      |      |     |     |    |     |      | 2.47  |      |
| Gettysburg         | Potomac        |              | .78  | .31  | .01 |     |   |    |   |     |    |     |    |     | .04 |      | .02  | .12 | .28 |     | .03 | T.   | .01 | .19 |     |      | T.   | .55 |     |    |     |      | 1.44  |      |
| Girardville\|\|\| | Lower Susq.    |              | .53  |      |     |     |   |    |   |     |    |     |    |     |     | .28  | .06  |     |     |     | .02 |      |     |     |     | .02  |      | .54 |     |    |     |      | 1.19  |      |
| Gordon             | Lower Susq.    |              |      | .63  |     |     |   |    |   |     |    |     |    |     | T.  |      |      |     |     |     |     |      |     |     |     |      |      |     |     |    |     |      |       |      |
| Gouldsboro\|\|\| | Lehigh         |              | 1.05 |      |     |     |   |    |   |     |    |     |    |     |     | .25  | .02  | .08 |     |     |     | .10  |     |     |     |      |      | .33 |     |    |     |      | 1.83  |      |
| Graterford         | Schuylkill     |              | 1.26 |      |     |     |   |    |   |     |    |     |    |     |     | .18  |      |     | .02 |     |     | .14  |     |     |     |      | .15  |     |     |    |     |      | 1.75  |      |
| Hamburg            | Schuylkill     |              | .14  | .86  |     |     |   |    |   |     |    |     |    |     | .43 |      | .01  | .11 |     |     |     |      |     |     |     |      | .46  |     |     |    |     |      | 2.01  |      |
| Hanover            | Lower Susq.    |              | .05  | .86  |     |     |   |    |   |     |    |     |    |     | .99 | T.   |      | .36 |     |     | .04 |      |     | .17 |     |      | .67  |     |     |    |     |      | 3.18  |      |
| Harrisburg***      | Lower Susq.    | 1.26         | T.   |      | T.  |     |   |    |   | .81 |    |     |    |     | .17 |      | .08  | .27 |     |     | .24 |      |     | T.  | T.  |      | .52  |     |     |    |     |      | 3.35  |      |
| Hawley\|\|\| | Upper Del.     |              | T.   | .67  |     | T.  |   |    |   |     |    |     |    |     |     | .28  | .08  | .22 | .12 |     | T.  | .54  | T.  |     |     |      | .30  | T.  |     |    |     |      | 2.21  |      |
| Hollisterville     | Upper Del.     |              | T.   | .63  |     |     |   |    |   |     |    |     |    |     | T.  | T.   | .42  | .20 | .02 |     | .02 | .15  |     | .01 | .04 |      | .39  | .17 |     |    |     |      | 2.05  |      |
| Holtwood\|\|\| | Lower Susq.    |              | .76  | .02  |     |     |   |    |   |     |    |     |    |     |     | .25  | .02  | T.  |     |     |     | .16  |     |     |     |      | .60  | .10 |     |    |     |      | 1.91  |      |
| Huntingdon         | Juniata        | .20          | .15  | 1.00 |     |     |   |    |   |     |    |     |    |     |     | .17  | .76  | .14 |     |     | .68 | .16  |     | .05 | T.  |      | .84  |     | .06 |    |     |      | 4.21  |      |
| Hyndman            | Potomac        |              | .06  | .06  |     | .05 |   |    |   |     |    |     |    |     | .01 | .02  | .17  | .27 |     |     | .03 | T.   |     | .52 | .03 |      | 1.26 | .10 | .14 |    |     |      | 2.72  |      |
| Kylertown          | W. Br. Susq.   |              | .39  | .14  | .02 |     |   |    |   |     |    |     |    |     | .03 | T.   | .15  | .12 | .37 |     | T.  |      |     |     | .32 |      | 1.12 | T.  |     |    |     |      | 2.66  |      |
| Lakeville\|\|\| | Upper Del.     |              | .08  | .55  |     |     |   |    |   |     |    |     |    |     |     | .54  | .20  | T.  | .42 | T.  |     | .32  |     |     |     |      | .41  | T.  |     |    |     |      | 2.52  |      |
| Lancaster          | Lower Susq.    | 1.43         |      |      |     |     |   |    |   |     |    |     |    |     |     | .35  |      | .05 | .03 |     |     | .35  |     |     |     |      | .60  |     |     |    |     |      | 2.81  |      |
| Lansford\|\|\| | Lehigh         |              | .72  |      |     |     |   |    |   |     |    |     |    |     |     | .03  | .55  | .06 | .04 |     |     | .14  |     |     | .10 |      | .47  | T.  |     |    |     |      | 2.11  |      |
| Lawrenceville      | N. Br. Susq.   |              | .52  | 1.35 | .05 |     |   |    |   |     |    |     |    |     | .15 | .20  | .20  | .30 | .25 | .20 |     | .40  |     |     |     |      | .30  |     |     |    |     |      | 3.92  |      |
| Lebanon\|\|\| | Lower Susq.    |              | .78  | .01  |     |     |   |    |   |     |    |     |    |     | .18 |      | .15  | .02 |     |     | .02 | T.   |     |     |     | .32  | .04  |     |     |    |     |      | 1.52  |      |
| Lewisburg          | W. Br. Susq.   |              | .10  | .53  | .02 |     |   |    |   |     |    |     |    |     |     | .50  | .01  | .15 |     |     |     | .06  |     |     |     |      | .47  |     |     |    |     |      | 1.84  |      |
| Lloyd              | do.            |              |      |      |     |     |   |    |   |     |    |     |    |     |     | .15  | .01  | .38 | .28 | .02 |     | .14  |     |     |     |      | .84  |     |     |    |     |      | 2.37  |      |
| Lock Haven         | do.            |              | .22  | .27  | .02 | .04 |   |    |   |     |    |     |    |     |     | .42  | .04  | T.  | .19 |     |     | .06  |     |     |     | .02  |      | .36 |     |    |     |      | 1.97  |      |
| Lykens             | Susquehanna    |              | .10  | .78  |     |     |   |    |   |     |    |     |    |     |     |      |      |     |     |     |     |      |     |     |     |      |      |     |     |    |     |      | 0.74  |      |
| Marcus Hook        | Lower Del.     |              |      |      |     |     |   |    |   | .05 |    |     |    |     |     |      | .55  | .63 |     |     | T.  | .07  |     |     |     |      | .70  |     | .04 |    |     |      | 2.96  |      |
| Mauch Chunk        | Lehigh         |              | .66  | .44  |     |     |   |    |   |     |    |     |    |     |     |      | .09  | .38 | .42 |     |     | .05  | .01 |     | .01 |      | .91  |     |     |    |     |      | 2.25  |      |
| Midlinton          | Juniata        |              | .07  | .31  |     |     |   |    |   |     |    |     |    |     |     | 1.35 | .03  | .65 |     |     |     | .50  |     |     |     |      | .70  |     |     |    |     |      | 3.53  |      |
| Montrose           | N. Br. Susq.   |              | .30  |      |     |     |   |    |   |     |    |     |    |     |     | 1.14 | .30  | .50 |     |     |     | .04  |     |     |     |      | .30  | .02 |     |    |     |      | 3.77  |      |
| Morris Run         | N. Br. Susq.   |              | .63  | .41  | .43 |     |   |    |   |     |    |     |    |     |     |      | .60  | .03 | T.  |     |     | .45  |     | T.  |     |      | .38  |     |     |    |     |      | 1.82  |      |
| Mount Pocono       | Upper Del.     |              | .30  | .06  |     |     |   | </ |   |     |    |     |    |     |     |      |      |     |     |     |     |      |     |     |     |      |      |     |     |    |     |      |       |      |



## Daily Precipitation for September, 1931—Continued from page 43

| Stations        | Drainage Basin | Day of month |      |      |     |     |   |   |   |     |     |     |    |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |     |    |    | Total |      |
|-----------------|----------------|--------------|------|------|-----|-----|---|---|---|-----|-----|-----|----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|----|----|-------|------|
|                 |                | 1            | 2    | 3    | 4   | 5   | 6 | 7 | 8 | 9   | 10  | 11  | 12 | 13  | 14  | 15  | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27  | 28  | 29  | 30 | 31 |       |      |
| Ohio Drainage.  |                |              |      |      |     |     |   |   |   |     |     |     |    |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |     |    |    |       |      |
| Beaver Dam      | Ohio           | .78          | 1.54 |      |     | .08 |   |   |   | .07 |     |     |    |     |     |     | .33  | .16  | .40  |      |      |      |      | .02  |      | .80  | T.   | .05 |     |     |    |    | 4.23  |      |
| Beaver Falls    | Beaver         | .93          | .98  |      |     | .13 |   |   |   |     |     |     |    |     | .06 | T.  | T.   | .14  | .22  |      | .01  | .22  |      |      | T.   |      | .62  | T.  | .13 |     |    |    | 3.44  |      |
| Bradford        | Allegheny      | 1.00         | .15  | .03  |     |     |   |   |   |     |     |     |    |     | .15 | .06 | .85  | .07  |      |      | .05  |      |      |      | .85  | 1.18 | .40  | .02 |     |     |    |    | 3.31  |      |
| Brookville      | do.            | .20          | .85  |      |     |     |   |   |   |     |     |     |    |     | .10 |     |      | .20  | .33  |      |      | .10  |      | .05  | .16  |      |      | .94 |     | .18 |    |    | 3.11  |      |
| Butler          | Ohio           | 2.65         |      | .10  | .09 |     |   |   |   |     |     |     |    |     | .12 | .06 | .95  | .50  |      |      | .41  |      |      |      |      | 1.20 | T.   |     |     |     |    |    | 6.08  |      |
| Chambersville   | Allegheny      | 1.74         | .14  | .05  |     |     |   |   |   |     |     |     |    |     | .04 | .31 | .15  | .26  | .07  |      | .72  | .04  |      | .02  |      | .26  | .05  |     |     |     |    |    | 3.85  |      |
| Clairton        | Monongahela    | .08          | 1.34 | T.   | .01 |     |   |   |   |     |     |     |    |     | .01 | .03 | .18  |      |      |      |      |      |      | .44  |      | .89  | .56  | .04 |     |     |    |    | 3.58  |      |
| Claysville      | Ohio           | 1.40         | .28  | T.   | .82 |     |   |   |   |     |     |     |    |     | .03 |     |      | 1.55 |      |      |      |      |      | .39  |      |      | .92  | .04 |     |     |    |    | 4.93  |      |
| Clymer          | Conemaugh      | .80          | .82  |      |     |     |   |   |   |     | .04 | .03 |    |     |     |     | .55  |      |      |      | 1.32 |      |      |      |      | 1.42 |      | .20 |     |     |    |    | 5.18  |      |
| Confluence      | Youghiogheny   | .07          | .45  | .08  | .20 |     |   |   |   |     |     |     |    |     |     | T.  | .38  |      | 1.30 |      |      | .16  |      |      | .63  |      | 1.50 | .05 |     |     |    |    | 4.82  |      |
| Corry           | Allegheny      | .65          | .15  | .08  |     |     |   |   |   |     |     |     |    | .08 | T.  | .45 | .04  | T.   |      |      | T.   |      |      |      |      | 1.18 |      | .13 |     |     |    |    | 2.76  |      |
| Coudersport     | Allegheny      | .15          | 1.57 | .23  | .04 | T.  |   |   |   |     |     | .12 |    | .05 | .03 | .65 |      |      |      |      | .15  |      |      | .21  |      | .42  | .02  |     |     |     |    |    | 3.64  |      |
| Derry           | Conemaugh      | 1.06         | .16  | .12  | T.  |     |   |   |   |     |     |     |    |     | .38 | .08 | .09  | .27  | .38  |      | .21  | 1.21 |      | .32  |      | 1.26 | .12  |     |     |     |    |    | 5.66  |      |
| Donora          | Monongahela    | .40          | .63  |      | .04 |     |   |   |   |     |     |     |    |     | T.  | T.  | .08  |      | .80  |      |      | .09  |      | .24  |      | 1.10 |      | .08 |     |     |    |    | 3.46  |      |
| Ebensburg       | Conemaugh      | .70          | .66  | .06  | .15 |     |   |   |   |     |     |     |    |     |     | .60 | .20  | .62  |      | .03  | 1.27 |      | .13  | .12  |      | 1.15 | .05  |     |     |     |    |    | 5.74  |      |
| Elk Lick        | Youghiogheny   | .18          |      |      |     |     |   |   |   |     |     |     |    |     | .04 | .10 |      |      | 1.48 |      |      |      |      | 2.10 |      |      | 1.53 | .40 |     |     |    |    | 5.83  |      |
| Falls Creek     | Allegheny      | 1.71         |      |      |     |     |   |   |   |     |     |     |    |     | .42 | .13 | .70  |      |      |      |      |      | .03  |      | .26  | 1.21 |      | .05 |     |     |    |    | 4.51  |      |
| Franklin        | Allegheny      | .40          | .55  |      | .03 |     |   |   |   |     |     |     |    |     | .14 | .06 | .04  | .04  |      | .17  | .43  |      | .08  | .06  |      | 1.10 | .06  |     |     |     |    |    | 3.26  |      |
| Freeport        | do.            | .70          | .97  |      | .21 |     |   |   |   |     |     |     |    | .02 | .03 | .01 | .35  | .41  |      | T.   | .65  |      |      |      | .02  |      | .64  |     | .06 |     |    |    | 4.07  |      |
| Greensboro      | Monongahela    | .01          | 1.03 |      | .50 |     |   |   |   |     |     |     |    |     | .13 | .01 | 1.40 |      |      |      | .55  |      | .43  |      | 1.14 |      | .17  |     |     |     |    |    | 5.87  |      |
| Greensburg      | Youghiogheny   | 1.25         | .28  | T.   | .26 |     |   |   |   | T.  |     |     |    |     | .05 | T.  | .50  | .39  |      | .64  | .41  | T.   | .81  |      |      | 1.18 | .12  | .03 |     |     |    |    | 5.92  |      |
| Greenville      | Beaver         | 1.48         | T.   | .10  |     |     |   |   |   |     |     |     |    |     | .19 | .30 | .12  |      |      | .38  |      |      | .15  | .24  |      | .53  | .10  |     |     |     |    |    | 3.59  |      |
| Grove City      | do.            | 1.03         | .09  | .18  |     |     |   |   |   |     |     |     |    |     | .15 | .01 | T.   |      |      | .23  | .09  | T.   |      |      |      | .23  |      | .76 | .06 |     |    |    | 2.83  |      |
| Herrs Isl. Dam  | Ohio           | .70          | .94  |      | .02 |     |   |   |   | T.  |     |     |    |     | .02 | T.  | .01  |      |      |      |      | .16  |      | .23  |      | .73  | T.   | .09 |     |     |    |    | 2.90  |      |
| Ingram          | Ohio           | 1.65         | .01  |      | .03 |     |   |   |   |     |     |     |    | .04 | T.  | .02 | .84  | .01  |      | .09  |      | .01  | .11  | .02  |      | .80  | .08  |     |     |     |    |    | 3.71  |      |
| Irwin           | Youghiogheny   | T.           | 1.78 | .15  | T.  | T.  |   |   |   |     |     |     |    | .12 | T.  | .33 | .32  |      | .95  |      |      | .16  |      |      | 1.48 | .02  |      |     |     |     |    |    | 5.31  |      |
| Johnstown       | Conemaugh      | .63          | T.   | .15  | .01 |     |   |   |   |     |     |     |    |     | .01 |     | .42  | .57  | .60  |      | 1.72 | .06  |      | .25  | .05  | T.   | 1.05 | .08 |     |     |    |    | 5.60  |      |
| Kregar          | Youghiogheny   | .04          | .70  | .01  | .06 |     |   |   |   |     |     |     |    |     | T.  |     | .51  |      |      | 2.20 |      | T.   | .12  |      | 1.22 | .15  | .18  |     |     |     |    |    | 5.19  |      |
| Lake Lynn       | Monongahela    | .07          | 1.32 |      | .45 |     |   |   |   |     |     |     |    |     | .17 | .15 | 1.22 |      |      | .68  |      | .14  | .15  |      | 1.07 | T.   | .18  |     |     |     |    |    | 5.60  |      |
| Linesville      | Beaver         | .62          | .64  |      | .12 |     |   |   |   |     |     |     |    |     | .20 | .10 | .40  | .04  |      |      |      |      | .14  |      | .70  | .25  | .11  |     |     |     |    |    | 3.32  |      |
| Lock No. 2      | Ohio           | .76          | .69  | T.   | .02 |     |   |   |   |     |     |     |    |     | T.  | .08 | .02  | T.   | .67  |      | .04  |      | .15  |      | .57  | T.   | .09  |     |     |     |    |    | 3.09  |      |
| Lock No. 4      | Monongahela    | .16          | .86  |      | .08 |     |   |   |   |     |     |     |    |     |     | .37 | .01  | .59  |      |      |      |      |      | .28  |      | .93  |      | .09 |     |     |    |    | 3.37  |      |
| Lycippus        | Conemaugh      | .80          | .21  | .16  |     |     |   |   |   |     |     |     |    |     |     | T.  | T.   |      | .70  |      | .85  | 1.75 |      | .36  |      | 1.10 | .10  |     | *   |     |    |    | 6.03  |      |
| McKeesport      | Monongahela    | .07          | .90  |      | .01 |     |   |   |   |     |     |     |    |     | T.  | T.  | T.   | .59  |      |      | .12  |      | .59  |      | 1.04 | *    | .04  |     |     |     |    |    | 3.36  |      |
| Meadville       | Allegheny      | 1.26         | .07  | .09  | .05 |     |   |   |   |     |     |     |    |     | T.  | .02 | .39  | .02  |      |      |      |      | .28  | .03  | .70  | .18  |      |     |     |     |    |    | 3.09  |      |
| Mount Lebanon   | Ohio           | 1.40         | .20  |      |     |     |   |   |   |     |     |     |    |     | .05 |     | .26  | .12  |      | .24  |      | .50  |      |      | 1.02 | .08  |      |     |     |     |    |    | 3.87  |      |
| Natrona         | Allegheny      | .82          | 1.35 |      | .05 |     |   |   |   |     |     |     |    |     |     | .02 | .26  |      |      | 1.00 |      | .13  |      | .80  |      | .05  |      | .02 | .01 |     |    |    | 4.48  |      |
| New Castle      | Beaver         | .01          | .42  | 1.07 | .01 |     |   |   |   |     |     |     |    |     |     | .44 | .06  | .09  |      | .03  |      | .03  |      | .01  | .01  | .01  | .05  | .02 | .01 |     |    |    | 3.40  |      |
| Newell          | Monongahela    | 1.22         |      | .15  |     |     |   |   |   |     |     |     |    | .01 | .03 | .45 |      | .77  |      |      |      | .27  |      | 1.02 | .05  | .01  | .02  | .01 |     |     |    |    | 4.01  |      |
| Parkers Landing | Allegheny      | T.           | .44  | .93  | T.  | T.  |   |   |   |     |     |     |    |     | .03 | T.  | T.   | T.   | .10  |      |      | 1.01 |      | T.   |      | .98  | T.   | T.  |     |     |    |    | 3.49  |      |
| Pennline        | Beaver         | .37          | .84  | .04  | .24 |     |   |   |   |     |     |     |    |     | .11 | .18 | .23  |      |      |      | .18  |      | .13  |      | .83  | .34  | .04  |     |     |     |    |    | 3.35  |      |
| Pittsburgh      | Ohio           | .26          | 1.35 |      | .02 |     |   |   |   | .04 |     |     |    |     | T.  | T.  | .01  | .81  |      |      |      | .18  |      | T.   | .14  |      | .77  | .09 | .14 |     |    |    |       | 3.81 |
| Pittsburgtown   | Allegheny      |              | 1.93 |      |     |     |   |   |   |     |     |     |    |     |     | .59 |      | .43  |      |      | 1.63 |      |      |      | 1.02 |      |      |     |     |     |    |    | 5.60  |      |
| Ridgway         | do.            |              | .14  | .20  | .46 | .12 |   |   |   |     |     |     |    |     | T.  | .02 |      | .37  | .36  |      |      | .04  |      | .05  | .38  | .50  | .10  |     |     |     |    |    | 3.74  |      |
| Saltsburg       | Conemaugh      | 1.00         | 1.39 |      |     |     |   |   |   |     |     |     |    |     |     |     | .17  | 1.16 |      |      | 1.62 |      |      | .20  |      | .97  |      | .14 |     |     |    |    | 6.65  |      |
| Sharon          | Beaver         | .41          | .68  |      |     |     |   |   |   |     |     |     |    |     | .03 | T.  | T.   |      |      | T.   | .05  |      |      |      | .85  |      | .16  |     |     |     |    |    | 2.18  |      |
| Somerset        | Youghiogheny   | .46          | .16  | .04  | .06 |     |   |   |   |     |     |     |    | T.  |     | T.  | .04  |      | .63  |      | T.   | .97  | .06  | .23  | .03  | 1.26 | .02  | .10 |     |     |    |    | 4.06  |      |
| Springdale      | Allegheny      | T.           | .80  | 1.04 | .01 | .08 |   |   |   |     |     |     |    |     | .01 | .01 | .12  | .35  |      |      | .38  |      |      | .19  |      | .74  |      | .03 |     |     |    |    | 3.76  |      |
| Uniontown       | Monongahela    | .68          | .37  | .28  | .15 |     |   |   |   |     |     |     |    |     | .11 | .15 |      | 1.23 |      | .03  |      | .20  | 1.33 | .01  |      | 1.23 | .10  | .04 |     |     |    |    | 5.91  |      |
| Unity Reservoir | Youghiogheny   | 1.10         | .28  | T.   |     |     |   |   |   |     |     |     |    |     | T.  | T.  | .40  | .23  |      | .65  | .23  |      | .20  |      |      | 1.02 | .08  |     |     |     |    |    | 4.19  |      |
| Vandergrift     | Conemaugh      | 1.70         |      |      |     |     |   |   |   |     |     |     |    |     | .01 | .03 | .89  |      | 1.36 |      |      |      |      |      | .78  | .21  |      | .07 |     |     |    |    | 5.05  |      |
| Warren          | Allegheny      | .89          | .13  | .06  |     |     |   |   |   |     |     |     |    |     | .55 | .40 | 1.40 | .06  | .06  |      | .08  |      |      | .15  |      | .62  | .09  |     |     |     |    |    | 4.49  |      |
| Waynesburg      | Monongahela    | 1.30         | .30  |      | .30 |     |   |   |   |     |     |     |    |     |     | .11 |      |      | 2.00 |      | .21  |      | .90  |      |      | .90  | .10  |     |     |     |    |    | 6.12  |      |
| Westford        | Beaver         | .43          | .80  | .03  | .32 |     |   |   |   |     |     |     |    |     | .04 | .15 | .18  |      |      |      | .35  |      |      |      | 1.04 | .27  | .04  |     |     |     |    |    | 3.65  |      |
| West Newton     | Youghiogheny   | .28          | 1.07 |      |     |     |   |   |   |     |     |     |    |     |     |     | .16  |      | .69  |      |      | .05  |      | .67  |      | 1.03 |      | .09 |     |     |    |    | 4.04  |      |
| Lake Drainage.  |                |              |      |      |     |     |   |   |   |     |     |     |    |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |     |    |    |       |      |
| Erie            | Lake Erie      | .48          | .18  | T.   | .11 |     |   |   |   |     |     |     |    | T.  | T.  | .03 | .11  | .01  |      | T.   |      |      | .03  | .34  |      | .47  | .34  | .17 |     |     |    |    | 2.27  |      |
| Genesee         | do.            |              | .65  |      |     |     |   |   |   |     |     |     |    |     | .34 | .26 | .67  | .16  |      |      | .21  |      |      |      | .05  | .37  | T.   |     |     |     |    |    | 2.71  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville  
Newville; of Clymer, Indiana; of Driftwood, Sinnemahoning; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah ‡ Mdt. to mdt.



Daily Temperatures for September, 1931

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12  | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |
|--------------------|---------|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|------|------|
| Allentown.....     | Maximum | 88 | 86 | 71 | 79 | 79 | 88 | 76 | 81 | 89 | 95  | 95  | 93  | 90 | 91 | 85 | 76 | 71 | 79 | 73 | 75 | 91 | 93  | 85 | 75 | 67 | 72 | 71 | 64 | 69 | 72 | 80.6 |      |
|                    | Minimum | 51 | 54 | 62 | 54 | 55 | 59 | 55 | 51 | 58 | 64  | 66  | 68  | 66 | 67 | 68 | 67 | 61 | 60 | 57 | 58 | 64 | 65  | 66 | 67 | 47 | 50 | 51 | 55 | 39 | 42 | 58.2 |      |
| Altoona.....       | Maximum | 85 | 74 | 76 | 77 | 79 | 78 | 75 | 79 | 89 | 94  | 93  | 95  | 93 | 93 | 85 | 75 | 90 | 74 | 74 | 85 | 91 | 94  | 86 | 70 | 60 | 73 | 63 | 65 | 70 | 42 | 80.2 |      |
|                    | Minimum | 50 | 65 | 58 | 59 | 54 | 58 | 50 | 47 | 60 | 68  | 63  | 65  | 63 | 63 | 65 | 65 | 67 | 58 | 56 | 60 | 66 | 66  | 60 | 60 | 40 | 54 | 51 | 48 | 37 | 42 | 57.3 |      |
| Bedford.....       | Maximum | 88 | 82 | 88 | 78 | 85 | 83 | 88 | 80 | 89 | 91  | 93  | 95  | 94 | 90 | 84 | 81 | 90 | 86 | 77 | 86 | 93 | 93  | 88 | 72 | 67 | 74 | 66 | 66 | 71 | 74 | 83.1 |      |
|                    | Minimum | 49 | 64 | 61 | 59 | 59 | 59 | 47 | 45 | 51 | 61  | 61  | 61  | 59 | 61 | 64 | 66 | 69 | 60 | 58 | 59 | 60 | 61  | 65 | 63 | 41 | 55 | 54 | 47 | 35 | 37 | 56.4 |      |
| Bellefonte.....    | Maximum | 84 | 76 | 72 | 76 | 78 | 80 | 74 | 80 | 89 | 93  | 92  | 94  | 92 | 88 | 85 | 74 | 90 | 75 | 75 | 84 | 92 | 93  | 84 | 69 | 63 | 73 | 63 | 64 | 69 | 72 | 79.8 |      |
|                    | Minimum | 45 | 66 | 60 | 49 | 54 | 56 | 47 | 44 | 58 | 61  | 57  | 60  | 61 | 61 | 63 | 66 | 66 | 54 | 53 | 65 | 63 | 62  | 55 | 45 | 34 | 55 | 50 | 41 | 33 | 37 | 54.0 |      |
| Brookville.....    | Maximum | 77 | 86 | 71 | 75 | 78 | 80 | 77 | 75 | 77 | 89  | 93  | 93  | 94 | 92 | 88 | 83 | 79 | 90 | 75 | 78 | 87 | 91  | 91 | 83 | 68 | 66 | 72 | 63 | 64 | 69 | 80.1 |      |
|                    | Minimum | 46 | 45 | 56 | 52 | 50 | 50 | 46 | 42 | 39 | 49  | 57  | 54  | 55 | 57 | 60 | 62 | 63 | 50 | 46 | 50 | 59 | 59  | 55 | 35 | 53 | 52 | 43 | 33 | 30 | 30 | 50.2 |      |
| Butler.....        | Maximum | 84 | 84 | 77 | 78 | 83 | 85 | 85 | 89 | 91 | 95  | 94  | 95  | 90 | 87 | 86 | 90 | 90 | 79 | 85 | 91 | 92 | 90  | 79 | 67 | 62 | 67 | 71 | 65 | 74 | 75 | 82.7 |      |
|                    | Minimum | 48 | 66 | 57 | 47 | 55 | 53 | 55 | 42 | 50 | 59  | 57  | 59  | 59 | 59 | 69 | 69 | 67 | 50 | 68 | 65 | 65 | 66  | 57 | 59 | 39 | 48 | 50 | 50 | 33 | 36 | 55.2 |      |
| Carlisle.....      | Maximum | 90 | 88 | 73 | 81 | 86 | 84 | 83 | 82 | 94 | 100 | 100 | 100 | 97 | 99 | 99 | 99 | 88 | 86 | 80 | 83 | 97 | 98  | 93 | 72 | 67 | 76 | 71 | 65 | 75 | 78 | 85.0 |      |
|                    | Minimum | 50 | 66 | 64 | 55 | 56 | 60 | 54 | 51 | 57 | 67  | 70  | 69  | 70 | 64 | 66 | 64 | 64 | 61 | 56 | 65 | 64 | 68  | 65 | 67 | 45 | 56 | 50 | 50 | 37 | 40 | 59.0 |      |
| Catawissa.....     | Maximum | 86 | 83 | 76 | 89 | 87 | 84 | 86 | 85 | 93 | 98  | 98  | 100 | 94 | 92 | 87 | 83 | 83 | 80 | 80 | 83 | 95 | 100 | 90 | 81 | 73 | 74 | 72 | 72 | 75 | 78 | 85.6 |      |
|                    | Minimum | 46 | 68 | 55 | 52 | 53 | 49 | 48 | 47 | 56 | 63  | 60  | 61  | 65 | 65 | 64 | 64 | 56 | 55 | 63 | 77 | 65 | 61  | 55 | 40 | 50 | 47 | 47 | 36 | 38 | 40 | 55.8 |      |
| Chambersburg.....  | Maximum | 90 | 90 | 78 | 83 | 85 | 88 | 81 | 86 | 94 | 99  | 100 | 99  | 96 | 96 | 85 | 80 | 89 | 82 | 79 | 79 | 96 | 99  | 95 | 77 | 70 | 77 | 69 | 72 | 76 | 78 | 85.6 |      |
|                    | Minimum | 54 | 67 | 66 | 52 | 59 | 64 | 56 | 49 | 56 | 65  | 66  | 66  | 69 | 68 | 66 | 67 | 66 | 65 | 56 | 64 | 66 | 66  | 68 | 63 | 46 | 58 | 52 | 48 | 38 | 42 | 59.6 |      |
| Chambersville..... | Maximum | 86 | 79 | 76 | 78 | 80 | 80 | 74 | 77 | 87 | 92  | 93  | 94  | 92 | 86 | 82 | 80 | 91 | 75 | 77 | 84 | 90 | 91  | 86 | 71 | 63 | 73 | 65 | 64 | 70 | 75 | 80.4 |      |
|                    | Minimum | 50 | 65 | 57 | 51 | 56 | 62 | 44 | 44 | 52 | 62  | 63  | 61  | 62 | 66 | 67 | 66 | 70 | 51 | 58 | 63 | 64 | 65  | 60 | 53 | 39 | 55 | 52 | 42 | 33 | 36 | 55.8 |      |
| Claysville.....    | Maximum | 85 | 81 | 79 | 75 | 83 | 83 | 79 | 79 | 90 | 94  | 95  | 98  | 93 | 89 | 85 | 85 | 93 | 87 | 86 | 89 | 92 | 92  | 87 | 75 | 68 | 73 | 63 | 66 | 72 | 78 | 83.1 |      |
|                    | Minimum | 59 | 66 | 56 | 48 | 58 | 66 | 43 | 45 | 51 | 61  | 58  | 61  | 63 | 66 | 69 | 68 | 71 | 57 | 68 | 56 | 69 | 72  | 63 | 61 | 42 | 62 | 52 | 48 | 32 | 38 | 57.6 |      |
| Clearfield.....    | Maximum | 88 | 80 | 80 | 80 | 82 | 80 | 83 | 79 | 93 | 98  | 98  | 100 | 97 | 90 | 89 | 85 | 75 | 91 | 85 | 80 | 89 | 94  | 92 | 89 | 64 | 72 | 75 | 72 | 74 | 72 | 82   | 84.0 |
|                    | Minimum | 45 | 65 | 56 | 50 | 52 | 60 | 45 | 42 | 52 | 59  | 60  | 58  | 68 | 65 | 61 | 65 | 58 | 59 | 62 | 57 | 60 | 60  | 55 | 52 | 55 | 50 | 56 | 47 | 32 | 62 | 55.6 |      |
| Coatesville.....   | Maximum | 85 | 88 | 79 | 79 | 81 | 86 | 76 | 80 | 88 | 93  | 95  | 97  | 90 | 91 | 85 | 78 | 77 | 78 | 77 | 75 | 93 | 95  | 87 | 77 | 69 | 74 | 70 | 65 | 70 | 73 | 81.7 |      |
|                    | Minimum | 52 | 69 | 62 | 56 | 58 | 65 | 57 | 53 | 62 | 69  | 72  | 73  | 68 | 69 | 68 | 68 | 62 | 64 | 58 | 59 | 67 | 69  | 70 | 60 | 47 | 56 | 54 | 54 | 44 | 49 | 61.1 |      |
| Corry.....         | Maximum | 77 | 78 | 65 | 74 | 74 | 75 | 81 | 91 | 94 | 94  | 96  | 93  | 88 | 84 | 77 | 83 | 77 | 81 | 87 | 93 | 92 | 88  | 72 | 65 | 68 | 56 | 64 | 57 | 62 | 68 | 79.7 |      |
|                    | Minimum | 46 | 55 | 49 | 44 | 61 | 61 | 41 | 45 | 55 | 60  | 58  | 61  | 62 | 66 | 67 | 65 | 70 | 44 | 51 | 63 | 68 | 62  | 53 | 44 | 35 | 39 | 50 | 41 | 32 | 32 | 52.7 |      |
| Emporium.....      | Maximum | 82 | 75 | 71 | 72 | 75 | 76 | 71 | 77 | 85 | 88  | 88  | 88  | 86 | 84 | 82 | 71 | 86 | 74 | 73 | 82 | 86 | 87  | 76 | 66 | 60 | 70 | 64 | 63 | 66 | 68 | 74.4 |      |
|                    | Minimum | 45 | 66 | 58 | 76 | 76 | 73 | 71 | 77 | 85 | 84  | 87  | 88  | 82 | 75 | 73 | 75 | 73 | 75 | 67 | 64 | 65 | 58  | 59 | 68 | 76 | 69 | 62 | 56 | 46 | 38 | 42   | 55.3 |
| Erie.....          | Maximum | 86 | 69 | 70 | 76 | 76 | 73 | 71 | 77 | 85 | 84  | 87  | 88  | 82 | 75 | 73 | 75 | 73 | 75 | 67 | 64 | 65 | 58  | 59 | 68 | 76 | 69 | 62 | 56 | 46 | 38 | 42   | 55.3 |
|                    | Minimum | 59 | 58 | 61 | 56 | 59 | 60 | 53 | 56 | 68 | 72  | 72  | 75  | 73 | 75 | 73 | 75 | 73 | 75 | 67 | 64 | 65 | 58  | 59 | 68 | 76 | 69 | 62 | 56 | 46 | 38 | 42   | 55.3 |
| Franklin.....      | Maximum | 87 | 74 | 78 | 77 | 80 | 79 | 79 | 85 | 95 | 98  | 98  | 98  | 94 | 89 | 87 | 83 | 93 | 83 | 80 | 81 | 90 | 92  | 94 | 86 | 79 | 66 | 70 | 60 | 64 | 73 | 75   | 83.0 |
|                    | Minimum | 49 | 52 | 56 | 45 | 48 | 56 | 45 | 44 | 47 | 58  | 58  | 60  | 60 | 65 | 69 | 66 | 67 | 48 | 49 | 70 | 69 | 86  | 89 | 80 | 70 | 62 | 63 | 64 | 57 | 62 | 68   | 75.4 |
| Freeland.....      | Maximum | 77 | 79 | 70 | 72 | 74 | 78 | 68 | 74 | 83 | 90  | 90  | 94  | 89 | 86 | 82 | 73 | 74 | 70 | 69 | 86 | 89 | 80  | 70 | 62 | 63 | 64 | 57 | 62 | 68 | 73 | 78   | 85.6 |
|                    | Minimum | 52 | 64 | 56 | 55 | 59 | 64 | 50 | 51 | 59 | 67  | 68  | 69  | 62 | 67 | 65 | 61 | 56 | 55 | 53 | 55 | 65 | 63  | 61 | 53 | 39 | 49 | 46 | 45 | 41 | 45 | 50.6 |      |
| Genesee.....       | Maximum | 82 | 75 | 70 | 70 | 72 | 73 | 75 | 76 | 85 | 89  | 90  | 90  | 87 | 84 | 80 | 70 | 83 | 73 | 69 | 79 | 85 | 86  | 78 | 67 | 59 | 70 | 60 | 59 | 64 | 70 | 75.7 |      |
|                    | Minimum | 39 | 52 | 54 | 48 | 45 | 61 | 55 | 41 | 58 | 55  | 51  | 54  | 56 | 60 | 62 | 58 | 63 | 52 | 51 | 55 | 58 | 50  | 52 | 31 | 50 | 50 | 41 | 29 | 36 | 38 | 50.6 |      |
| Gettysburg.....    | Maximum | 86 | 90 | 73 | 79 | 83 | 85 | 82 | 82 | 89 | 92  | 95  | 97  | 94 | 94 | 84 | 80 | 84 | 82 | 79 | 76 | 94 | 96  | 90 | 76 | 67 | 78 | 65 | 67 | 68 | 73 | 75   | 83.0 |
|                    | Minimum | 57 | 69 | 67 | 55 | 61 | 65 | 55 | 54 | 60 | 68  | 69  | 69  | 70 | 69 | 68 | 69 | 65 | 66 | 58 | 64 | 66 | 68  | 70 | 65 | 46 | 58 | 50 | 50 | 42 | 46 | 61.3 |      |
| Greensburg.....    | Maximum | 85 | 76 | 77 | 80 | 81 | 86 | 79 | 77 | 88 | 93  | 92  | 94  | 92 | 88 | 83 | 86 | 91 | 75 | 58 | 64 | 68 | 69  | 64 | 60 | 45 | 60 | 53 | 44 | 37 | 42 | 58.6 |      |
|                    | Minimum | 55 | 66 | 59 | 50 | 60 | 64 | 48 | 49 | 55 | 64  | 63  | 65  | 65 | 68 | 68 | 69 | 70 | 55 | 58 | 64 | 68 | 69  | 64 | 60 | 45 | 60 | 53 | 44 | 37 | 42 | 58.6 |      |
| Grove City.....    | Maximum | 84 | 79 | 73 | 76 | 77 | 75 | 72 | 78 | 87 | 91  | 92  | 92  | 91 | 85 | 82 | 81 | 85 | 79 | 78 | 86 | 90 | 91  | 85 | 76 | 63 | 68 | 60 | 64 | 69 | 73 | 79.4 |      |
|                    | Minimum | 55 | 65 | 56 | 47 | 57 | 60 | 45 | 45 | 56 | 60  | 59  | 61  | 61 | 67 | 70 | 67 | 70 | 48 | 58 | 63 | 67 | 69  | 55 | 57 | 39 | 53 | 50 | 44 | 34 | 39 | 55.9 |      |
| Hamburg.....       | Maximum | 84 | 87 | 78 | 78 | 81 | 83 | 82 | 85 | 92 | 95  | 97  | 95  | 92 | 85 | 80 | 76 | 80 | 82 | 86 | 93 | 94 | 94  | 87 | 70 | 74 | 70 | 70 | 72 | 72 | 72 | 83.8 |      |
|                    | Minimum | 47 | 57 | 66 | 53 | 52 | 54 | 56 | 60 | 66 | 68  | 63  | 65  | 64 | 66 | 65 | 65 | 61 | 55 | 58 | 58 | 62 | 67  | 63 | 62 | 47 | 45 | 50 | 51 | 40 | 38 | 57.5 |      |
| Harrisburg.....    | Maximum | 86 | 85 | 71 | 79 | 82 | 84 | 77 | 83 | 90 | 95  | 97  | 97  | 92 | 90 | 86 | 80 | 81 | 77 | 77 | 93 | 95 | 87  | 74 | 66 | 74 | 66 | 65 | 71 | 72 | 72 | 81.7 |      |
|                    | Minimum | 56 | 67 | 61 | 58 | 62 | 67 | 61 | 62 | 65 | 74  | 72  | 71  | 68 | 70 | 70 | 66 | 63 | 64 | 61 | 64 | 67 | 68  | 69 | 60 | 52 | 56 | 55 | 53 | 48 | 49 | 62.6 |      |
| Hawley.....        | Maximum | 78 | 79 | 69 | 77 | 80 | 81 | 73 | 79 | 89 | 93  | 93  | 95  | 91 | 90 | 83 | 74 | 75 | 77 | 72 | 71 | 87 | 91  | 86 | 71 | 66 | 65 | 71 | 62 | 69 | 73 | 78.7 |      |
|                    | Minimum | 42 | 67 | 60 | 47 | 49 | 61 | 48 | 44 | 49 | 55  | 56  | 58  | 62 | 63 | 62 | 60 | 57 | 52 | 46 | 54 | 60 | 62  | 59 | 56 | 36 | 50 | 44 | 51 | 34 | 35 | 52.6 |      |
| Huntingdon.....    | Maximum |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVI.

OCTOBER, 1931.

No. 10.

GENERAL SUMMARY.

October was unusually warm, the mean temperature for the State being exceeded only four times during the 44 years of the State Weather Service. The greatest temperature excesses were recorded at stations in the eastern portion of the State, and Philadelphia established a new record for a high October mean. The mean of 62.6° was higher by 0.1° than the previous warmest October during the last 105 years. Most of the temperature excess accumulated during the first ten days, when the heat was nearly as oppressive as at any time in midsummer. However, the temperatures were on the high side of the normal about three-fourths of the time during the month. Frosts and freezing temperatures covered most of the State during short cold periods that centered about the 13th and 19th respectively, and killed most of the late truck crops. The rainfall was only a little more than one-half of the October normal, but was far from establishing any new records. It was nearly twice as much as the rainfall for October 1930. However, before the end of the month there were many complaints of a water shortage. Many observers stated that springs and wells were going dry that held up through the drought of 1930. The surface soil, as affecting crops, was in much better condition than last year, but evidence is accumulating that the loss of deep soil water in 1930 has never been made up, and that there is still a slow decrease in progress that will require a long rainy season to correct. The weather during the month was very favorable for field work. Wheat seeding was finished early in the month, and corn husking progressed rapidly. At the close of the month corn husking was about half done, and apple gathering was in full swing. The winter grains were up and generally looking good despite the shortage of rainfall. The apple crop was large, and the quality mostly good to excellent. Prices were very low, and fine apples sold in many orchards for fifty cents per bushel or less, while hundreds of bushels of the less desirable varieties were given away. Late truck crops were plentiful and good during the first half of the month. The corn and tobacco crops were unusually heavy, and better than the average in quality. Buckwheat was mostly threshed during the month, and seemed to be about an average crop. A third cutting of hay was made in many places, the yields being light, but the quality good. The stream stages were almost the same as those of last October, being a just little higher in the Ohio drainage area. There were about the usual number of thunderstorms, but none of them seemed to be severe, and no damage by high winds was reported.

TEMPERATURE.

The mean temperature for the State, as shown by the reports

from 88 stations, was 55.7°, an excess of 1.3° as compared with the October normal. The highest monthly mean was 64.4°, at Marcus Hook, and the lowest 48.5°, at Gouldsboro. Extremes for the month ranged from a maximum of 93°, at Holtwood on the 7th, to a minimum of 20°, at Ridgway on the 13th and 19th. The greatest daily range of temperature was 52°, at Clearfield on the 20th.

PRECIPITATION.

The average precipitation for the State, as determined by the reports from 143 well-distributed stations, was 1.83 inches, which is 1.43 inches less than the October normal. The greatest monthly amount was 4.30 inches, at Hamburg, while the least, 0.20 inch, was reported from Wellsboro. The greatest amount recorded in 24 consecutive hours was 2.11 inches, at Lebanon on the 8th. The monthly average snowfall was a trace, which is 0.3 inch less than the normal for the month. No measurable snow was reported, but several stations reported traces on the 16th, 17th, or 18th.

COMPARATIVE DATA FOR OCTOBER

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 46.3        | 74      | 19     | 4.02          | 9.18     | 2.04  | 9           | 6             | 16     | 16                     |
| 1889.....                | 47.3        | 83      | 13     | 3.85          | 8.61     | 1.88  | 8           | 9             | 14     | 10                     |
| 1890.....                | 50.9        | 81      | 21     | 5.87          | 8.41     | 4.03  | 6           | 8             | 17     | 15                     |
| 1891.....                | 50.6        | 91      | 15     | 3.06          | 4.46     | 0.84  | 11          | 9             | 11     | 8                      |
| 1892.....                | 50.8        | 83      | 16     | 0.72          | 2.93     | 0.00  | 13          | 11            | 7      | 8                      |
| 1893.....                | 53.0        | 91      | 17     | 3.26          | 6.58     | 1.18  | 14          | 8             | 9      | 8                      |
| 1894.....                | 53.6        | 88      | 24     | 4.26          | 7.66     | 0.65  | 12          | 8             | 11     | 9                      |
| 1895.....                | 47.3        | 76      | 17     | 1.99          | 4.63     | 0.45  | 17          | 8             | 6      | 5                      |
| 1896.....                | 48.9        | 86      | 18     | 3.19          | 5.70     | 0.94  | 11          | 8             | 12     | 9                      |
| 1897.....                | 54.2        | 95      | 16     | 1.32          | 5.93     | T.    | 14          | 8             | 9      | 5                      |
| 1898.....                | 53.8        | 92      | 20     | 5.20          | 8.62     | 2.36  | 11          | 7             | 13     | 12                     |
| 1899.....                | 54.6        | 94      | 15     | 1.55          | 3.81     | 0.53  | 13          | 8             | 10     | 6                      |
| 1900.....                | 58.6        | 95      | 19     | 2.74          | 5.10     | 0.80  | 11          | 9             | 11     | 8                      |
| 1901.....                | 52.2        | 83      | 20     | 1.23          | 3.35     | 0.23  | 16          | 10            | 5      | 5                      |
| 1902.....                | 53.1        | 89      | 19     | 4.64          | 8.12     | 1.65  | 12          | 9             | 10     | 9                      |
| 1903.....                | 53.4        | 91      | 20     | 4.64          | 10.53    | 2.07  | 12          | 8             | 11     | 9                      |
| 1904.....                | 50.6        | 91      | 12     | 2.87          | 7.11     | 1.26  | 15          | 8             | 8      | 7                      |
| 1905.....                | 53.2        | 90      | 16     | 4.23          | 7.06     | 2.18  | 14          | 7             | 10     | 9                      |
| 1906.....                | 52.0        | 87      | 14     | 4.46          | 8.39     | 1.97  | 7           | 7             | 17     | 14                     |
| 1907.....                | 48.2        | 87      | 13     | 3.16          | 5.64     | 1.01  | 16          | 8             | 7      | 7                      |
| 1908.....                | 54.6        | 93      | 19     | 1.95          | 5.48     | 0.08  | 16          | 7             | 8      | 6                      |
| 1909.....                | 48.4        | 87      | 15     | 2.27          | 4.60     | 0.70  | 13          | 7             | 11     | 7                      |
| 1910.....                | 55.6        | 91      | 14     | 1.91          | 5.23     | 0.62  | 16          | 8             | 7      | 7                      |
| 1911.....                | 52.3        | 83      | 18     | 4.83          | 9.23     | 2.59  | 11          | 7             | 13     | 11                     |
| 1912.....                | 54.2        | 90      | 23     | 2.74          | 5.27     | 0.90  | 15          | 7             | 9      | 6                      |
| 1913.....                | 54.9        | 88      | 16     | 5.44          | 9.62     | 3.15  | 10          | 6             | 15     | 13                     |
| 1914.....                | 56.4        | 91      | 11     | 2.35          | 4.37     | 0.89  | 11          | 9             | 11     | 8                      |
| 1915.....                | 54.2        | 85      | 17     | 2.65          | 5.33     | 1.00  | 15          | 7             | 9      | 9                      |
| 1916.....                | 52.1        | 92      | 16     | 2.25          | 4.45     | 0.76  | 18          | 7             | 8      | 6                      |
| 1917.....                | 47.2        | 84      | 12     | 6.38          | 9.80     | 3.33  | 10          | 10            | 11     | 13                     |
| 1918.....                | 55.5        | 85      | 19     | 3.17          | 2.20     | 0.24  | 15          | 8             | 8      | 10                     |
| 1919.....                | 57.5        | 92      | 21     | 4.77          | 8.04     | 2.28  | 9           | 8             | 14     | 17                     |
| 1920.....                | 57.5        | 88      | 22     | 1.67          | 4.67     | 0.50  | 19          | 7             | 5      | 5                      |
| 1921.....                | 52.6        | 84      | 18     | 2.16          | 6.55     | 0.40  | 17          | 7             | 7      | 8                      |
| 1922.....                | 54.8        | 94      | 12     | 2.51          | 5.60     | 0.65  | 18          | 6             | 7      | 7                      |
| 1923.....                | 51.0        | 87      | 12     | 2.38          | 6.01     | 0.90  | 15          | 8             | 8      | 8                      |
| 1924.....                | 52.9        | 87      | 14     | 0.28          | 2.30     | 0.00  | 21          | 7             | 8      | 2                      |
| 1925.....                | 46.1        | 83      | 9      | 4.83          | 8.90     | 2.02  | 6           | 8             | 17     | 15                     |
| 1926.....                | 51.9        | 90      | 16     | 4.51          | 7.98     | 2.56  | 10          | 9             | 12     | 14                     |
| 1927.....                | 55.6        | 99      | 21     | 6.40          | 11.91    | 1.58  | 17          | 5             | 9      | 9                      |
| 1928.....                | 55.1        | 91      | 15     | 1.78          | 5.24     | 0.43  | 14          | 8             | 9      | 8                      |
| 1929.....                | 50.6        | 85      | 14     | 5.59          | 10.40    | 1.65  | 12          | 8             | 11     | 9                      |
| 1930.....                | 50.8        | 93      | 9      | 0.99          | 3.33     | 0.11  | 15          | 7             | 9      | 6                      |
| 1931.....                | 55.7        | 93      | 20     | 1.83          | 4.30     | 0.20  | 15          | 8             | 8      | 9                      |
| Normal and Extremes..... | 52.4        | 99      | 9      | 3.26          | 11.91    | 0.00  | 13          | 8             | 10     | 9                      |



## Climatological Data for October, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 19                      | 56.4                         | .....                     | 84      | 5    | 32     | 13   | 34                       | 2.44  | -0.90                     | 1.03                 | 0                         | 7                            | 21    | 6          | 4                            | ne.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 55.2                         | +3.1                      | 85      | 7    | 29     | 13   | 37                       | 1.62  | -1.05                     | 0.51                 | 0                         | 13                           | 22    | 5          | 4                            | w.        | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | ...                     | 57.0                         | +1.8                      | 83      | 7    | 30     | 13   | 37                       | 2.14  | -0.78                     | 0.99                 | 0                         | 5                            | ...   | ...        | ...                          | ...       | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 9                       | 58.0                         | .....                     | 92      | 7    | 29     | 19   | 43                       | 1.33  | .....                     | 0.23                 | 0                         | 12                           | 15    | 11         | 5                            | nw.       | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | ...                     | 56.3                         | .....                     | 85      | 4    | 25     | 20   | 45                       | 1.04  | -1.99                     | 0.40                 | 0                         | 8                            | 7     | 10         | 14                           | w.        | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 23                      | 53.0                         | 0.0                       | 82      | 4    | 35     | 13   | 32                       | 2.51  | -0.70                     | 1.08                 | 0                         | 9                            | 16    | 5          | 10                           | w.        | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 59.4                         | +3.7                      | 86      | 4    | 35     | 19   | 43                       | 1.43  | -1.80                     | 0.43                 | 0                         | 8                            | 17    | 7          | 7                            | nw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 56.5                         | +3.7                      | 87      | 3    | 27     | 19   | 46                       | 2.00  | -1.10                     | 0.78                 | 0                         | 7                            | 19    | 3          | 9                            | ...       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 56.3                         | +2.9                      | 88      | 4    | 27     | 19   | 46                       | 2.00  | -1.10                     | 0.78                 | 0                         | 7                            | 19    | 3          | 9                            | ...       | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 54.0                         | +2.1                      | 77      | 6    | 28     | 20   | 35                       | 0.52  | -2.40                     | 0.19                 | 0                         | 6                            | 20    | 2          | 9                            | ...       | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 58.2                         | +5.3                      | 89      | 6    | 29     | 13   | 43                       | 0.72  | -2.48                     | 0.49                 | 0                         | 9                            | 10    | 16         | 5                            | sw.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 55.2                         | +2.6                      | 87      | 4    | 21     | 20   | 52                       | 2.61  | -0.63                     | 0.75                 | T                         | 13                           | 15    | 9          | 7                            | w.        | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 58.0                         | +3.9                      | 85      | 5    | 35     | 13   | 34                       | 1.58  | -1.83                     | 0.75                 | 0                         | 9                            | 18    | 3          | 10                           | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 55.2                         | +2.5                      | 82      | 4    | 29     | 13   | 37                       | 2.91  | -0.37                     | 1.15                 | 0                         | 9                            | 16    | 7          | 8                            | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 52.4                         | +2.4                      | 78      | 7    | 25     | 13   | 43                       | 0.88  | -2.37                     | 0.26                 | 0                         | 8                            | 13    | 9          | 9                            | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 57.4                         | +2.8                      | 84      | 4    | 33     | 13   | 36                       | 2.96  | -0.12                     | 1.57                 | 0                         | 7                            | 16    | 7          | 8                            | s.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 54.6                         | +7.6                      | 79      | 5    | 32     | 18   | 31                       | 1.76  | -2.11                     | 0.61                 | 0                         | 10                           | 13    | 8          | 10                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 60.0                         | +5.0                      | 87      | 6    | 32     | 13   | 37                       | 2.47  | -0.67                     | 1.39                 | 0                         | 7                            | 20    | 10         | 1                            | w.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 58                      | 58.8                         | +5.8                      | 87      | 6    | 31     | 19   | 41                       | 0.70  | -2.51                     | 0.43                 | 0                         | 7                            | 18    | 9          | 4                            | s.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 27                      | 53.8                         | +3.1                      | 82      | 4    | 24     | 19   | 43                       | 1.98  | -2.21                     | 0.58                 | 0                         | 7                            | 18    | 5          | 8                            | w.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 48.5                         | .....                     | 76      | 4    | 25     | 13   | 36                       | 1.98  | -1.85                     | 0.92                 | 0                         | 6                            | 20    | 2          | 9                            | n.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      | 57.0                         | +3.6                      | 84      | 5    | 30     | 13   | 39                       | 4.30  | +0.51                     | 1.90                 | 0                         | 8                            | 18    | 12         | 1                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 60.4                         | +5.0                      | 88      | 7    | 33     | 13   | 39                       | 1.22  | -1.65                     | 0.55                 | T                         | 8                            | 20    | 5          | 6                            | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 58.9                         | +4.1                      | 84      | 6    | 37     | 13   | 32                       | 2.13  | -0.80                     | 1.08                 | 0                         | 8                            | 13    | 10         | 8                            | w.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 13                      | 51.8                         | +2.2                      | 82      | 5    | 24     | 13   | 40                       | 1.36  | -1.92                     | 0.58                 | T                         | 9                            | 16    | 11         | 4                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 63.0                         | +6.8                      | 93      | 7    | 41     | 19   | 32                       | 0.99  | -1.49                     | 0.66                 | 0                         | 7                            | 18    | 9          | 4                            | ...       | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 56.0                         | +3.3                      | 87      | 7    | 27     | 19   | 43                       | 0.88  | -2.11                     | 0.25                 | 0                         | 8                            | 16    | 7          | 8                            | w.        | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 56.4                         | +3.2                      | 89      | 6    | 26     | 19   | 51                       | 0.70  | -2.52                     | 0.25                 | 0                         | 8                            | 11    | 6          | 14                           | ...       | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 52.5                         | -1.3                      | 81      | 4    | 27     | 20   | 36                       | 1.64  | -1.47                     | 0.57                 | 0                         | 5                            | 17    | 11         | 3                            | w.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 52.6                         | +2.1                      | 83      | 4    | 24     | 13   | 46                       | 0.60  | -2.18                     | 0.30                 | 0                         | 3                            | 18    | 7          | 6                            | ...       | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 47                      | 57.7                         | +4.0                      | 86      | 6    | 33     | 13   | 37                       | 4.02  | +0.54                     | 2.11                 | 0                         | 9                            | 19    | 7          | 5                            | w.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 55                      | 56.8                         | +5.0                      | 88      | 4    | 29     | 13   | 44                       | 1.58  | -1.67                     | 0.39                 | 0                         | 10                           | 14    | 10         | 7                            | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 56.8                         | +3.3                      | 85      | 3    | 30     | 13   | 38                       | 1.32  | -1.82                     | 0.46                 | 0                         | 10                           | 13    | 11         | 7                            | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 56.4                         | +3.1                      | 86      | 3    | 25     | 13   | 46                       | 1.92  | -1.77                     | 0.58                 | 0                         | 11                           | 21    | 4          | 6                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 64.4                         | .....                     | 88      | 6    | 38     | 20   | 37                       | 2.26  | .....                     | 1.04                 | 0                         | 4                            | 16    | 10         | 5                            | sw.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 55.2                         | +2.8                      | 86      | 4    | 28     | 13   | 44                       | 1.66  | -2.13                     | 0.68                 | 0                         | 7                            | 20    | 5          | 6                            | nw.       | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 27                      | 56.6                         | +3.7                      | 86      | 4    | 27     | 20   | 44                       | 1.41  | -1.79                     | 0.41                 | 0                         | 10                           | 17    | 4          | 10                           | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 51.4                         | +2.4                      | 80      | 5    | 26     | 13   | 36                       | 1.52  | -2.05                     | 0.65                 | 0                         | 11                           | 15    | 7          | 9                            | sw.       | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 52.0                         | +3.6                      | 77      | 3    | 26     | 18   | 34                       | 0.80  | -4.06                     | 0.30                 | 0                         | 5                            | 22    | 3          | 6                            | sw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 52.1                         | +1.8                      | 82      | 4    | 24     | 19   | 40                       | 1.09  | -2.44                     | 0.38                 | 0                         | 10                           | 19    | 6          | 6                            | w.        | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 57.8                         | +3.9                      | 85      | 5    | 31     | 19   | 42                       | 2.97  | -0.19                     | 0.89                 | 0                         | 8                            | 24    | 0          | 7                            | w.        | North Springfield Water Co. |
| Neshaminy Falls    | Bucks        | 398             | 13                      | 54.8                         | .....                     | 81      | 3    | 28     | 19   | 38                       | 3.19  | +0.05                     | 1.73                 | 0                         | 8                            | 21    | 5          | 4                            | sw.       | New Jersey Zinc Co.         |
| Palmerton          | Carbon       | 114             | 60                      | 62.6                         | +4.8                      | 85      | 6    | 45     | 19   | 24                       | 2.61  | -0.20                     | 1.01                 | 0                         | 8                            | 12    | 10         | 9                            | sw.       | U. S. Weather Bureau.       |
| Philadelphia       | Philadelphia | 113             | 7                       | 61.6                         | .....                     | 86      | 6    | 39     | 19   | 29                       | 3.26  | .....                     | 1.73                 | 0                         | 7                            | 15    | 13         | 3                            | ...       | Julius Bernstein.           |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 61.2                         | +4.1                      | 85      | 4    | 41     | 19   | 27                       | 2.59  | -0.05                     | 1.05                 | 0                         | 7                            | ...   | ...        | ...                          | ...       | Commandant, Navy Yard.      |
| Phila. Navy Yard   | Philadelphia | 100             | 21                      | 59.1                         | +4.4                      | 86      | 6    | 32     | 19   | 37                       | 1.89  | -1.28                     | 0.75                 | 0                         | 6                            | 23    | 4          | 4                            | w.        | North Springfield Water Co. |
| Phoenixville       | Chester      | 496             | 46                      | 56.0                         | +3.8                      | 85      | 5    | 29     | 13   | 41                       | 2.43  | -0.91                     | 1.36                 | 0                         | 7                            | 16    | 8          | 7                            | nw.       | John E. Benner.             |
| Quakertown         | Bucks        | 325             | 59                      | 58.8                         | +4.1                      | 85      | 4    | 37     | 13   | 29                       | 2.06  | -1.06                     | 1.30                 | 0                         | 7                            | 13    | 10         | 8                            | sw.       | U. S. Weather Bureau.       |
| Reading            | Berks        | 805             | 37                      | 54.9                         | +3.1                      | 83      | 4    | 30     | 13   | 37                       | 1.45  | -1.58                     | 0.60                 | T                         | 10                           | 10    | 11         | 10                           | n.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 455             | 41                      | 55.8                         | +3.0                      | 84      | 4    | 27     | 19   | 43                       | 1.51  | -2.02                     | 0.49                 | 0                         | 9                            | 19    | 6          | 6                            | sw.       | Dr. George E. Fisher.       |
| Selinsgrove        | Snyder       | 51              | 35                      | 59.0                         | +2.9                      | 83      | 5    | 34     | 19   | 33                       | 1.63  | -1.53                     | 0.85                 | 0                         | 7                            | 11    | 13         | 7                            | w.        | W. S. Guiles.               |
| Shawmont           | Philadelphia | 1,217           | 47                      | 54.4                         | +3.3                      | 81      | 7    | 29     | 13   | 39                       | 0.96  | -1.95                     | 0.34                 | T                         | 9                            | 14    | 9          | 8                            | w.        | C. A. Kern.                 |
| State College      | Center       | 500             | 17                      | 54.0                         | +1.8                      | 84      | 5    | 26     | 13   | 45                       | 2.26  | -1.45                     | 0.87                 | 0                         | 9                            | 10    | 9          | 12                           | s.        | State Normal School.        |
| Stroudsburg        | Monroe       | 754             | 37                      | 52.8                         | +2.0                      | 81      | 4    | 24     | 13   | 44                       | 0.79  | -2.14                     | 0.30                 | 0                         | 13                           | 14    | 7          | 10                           | sw.       | Hiram E. Bull, C. E.        |
| Towanda            | Bradford     | 1,419           | 61                      | 51.9                         | +3.0                      | 84      | 3    | 23     | 22   | 48                       | 0.20  | -2.88                     | 0.09                 | 0                         | 3                            | 19    | 6          | 6                            | w.        | George W. Hill.             |
| Wellsboro          | Tioga        | 455             | 82                      | 59.0                         | +4.5                      | 82      | 6    | 37     | 19   | 31                       | 1.54  | -2.10                     | 0.89                 | 0                         | 3                            | 19    | 9          | 3                            | w.        | Joseph W. Belt.             |
| West Chester       | Chester      | 521             | 45                      | 55.4                         | +2.7                      | 86      | 4    | 28     | 13   | 39                       | 1.06  | -2.34                     | 0.29                 | 0                         | 11                           | 14    | 4          | 13                           | sw.       | Miss Veronica E. April.     |
| Williamsport       | Lycoming     | 400             | 43                      | 57.2                         | +3.2                      | 89      | 7    | 29     | 13   | 44                       | 1.05  | -1.96                     | 0.50                 | 0                         | 9                            | 15    | 13         | 3                            | w.        | York Water Co.              |
| York               | York         | 700             | 39                      | 55.3                         | +0.1                      | 84      | 7    | 30     | 19   | 37                       | 1.54  | -0.96                     | 0.69                 | 0                         | 12                           | 12    | 7          | 12                           | sw.       | U. S. Engineer.             |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 39                      | 55.3                         | +0.1                      | 84      | 7    | 30     | 19   | 37                       | 1.54  | -0.96                     | 0.69                 | 0                         | 12                           | 12    | 7          | 12                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 51.4                         | +2.2                      | 78      | 3    | 24     | 10   | 42                       | 1.43  | -2.11                     | 0.25                 | 0                         | 13                           | 18    | 3          | 10                           | sw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 50.8                         | +2.1                      | 83      | 5    | 23     | 20   | 49                       | 1.46  | -1.52                     | 0.38                 | 0                         | 11                           | 19    | 2          | 10                           | ...       | John Fawcett.               |
| Butler             | Butler       | 1,152           | 17                      | 55.0                         | .....                     | 84      | 4    | 26     | 19   | 47                       | 1.81  | -1.34                     | 0.64                 | 0                         | 10                           | 19    | 2          |                              |           |                             |



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| Stations        | Drainage Basin | Day of month |   |   |      |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |     | Total |      |      |      |      |      |
|-----------------|----------------|--------------|---|---|------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|------|------|
|                 |                | 1            | 2 | 3 | 4    | 5   | 6   | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21 | 22 | 23 | 24 | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |      |      |      |      |
| Ohio Drainage.  |                |              |   |   |      |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |     |       |      |      |      |      |      |
| Beaver Dam      | Ohio           |              |   |   |      | .10 |     | .11  | .03  | .11 |     |     | .12 |     | .11 | .06 |     | .69 |     |     |    |    |    |    |    | T   | .09 |     |     | .05 | .04 | .03 | 1.54  |      |      |      |      |      |
| Beaver Falls    | Beaver         |              |   |   |      | .06 | T   | .03  | T    | .08 |     |     | .12 |     | .12 | .15 |     | .45 | .02 |     |    |    |    |    |    |     | .05 |     |     | T   | .04 | T   | .02   | T    | 1.24 |      |      |      |
| Bradford        | Allegheny      |              |   |   |      | .03 |     | .06  | .10  |     |     | .25 |     |     | .25 | .05 | .23 | .20 |     |     |    |    |    |    |    | .14 | .03 |     | .07 | .02 |     | .05 | 1.43  |      |      |      |      |      |
| Brookville      | do             |              |   |   |      | .05 |     | .08  | .38  |     |     |     | .12 |     |     | .16 |     | .30 | .10 |     |    |    |    |    |    |     | .05 |     | .10 | .05 | .07 |     | 1.46  |      |      |      |      |      |
| Butler          | Ohio           |              |   |   |      | .20 |     | .20  | .19  |     |     | .08 |     |     | .19 |     |     | .68 |     |     |    |    |    |    |    | .06 |     | .05 | .07 |     | .02 | .06 | .09   | 1.81 |      |      |      |      |
| Chambersville   | Allegheny      |              |   |   |      | .03 |     | .45  | .16  |     |     | .08 |     |     | .29 | .12 | .24 | .32 | .06 |     |    |    |    |    |    | .12 | .04 |     | .01 | .17 | .02 | .02 | .06   | 2.19 |      |      |      |      |
| Clairton        | Monongahela    |              |   |   |      | .07 |     | T    | .55  |     |     | .02 |     |     | .36 | .02 | .30 | .13 |     |     |    |    |    |    |    | .13 |     |     | T   | .07 | T   | .01 | .06   | 1.70 |      |      |      |      |
| Claysville      | Ohio           |              |   |   |      | .12 |     |      | .60  |     |     | .05 | .05 |     | .39 | .04 | .10 | .21 | .01 |     |    |    |    |    |    | .07 | .02 |     |     | .03 | .02 | .01 | .18   | 1.90 |      |      |      |      |
| Clymer          | Conemaugh      |              |   |   |      |     | .15 |      | .16  |     |     | .16 |     |     | .20 | .10 |     | .60 |     |     |    |    |    |    |    |     |     |     |     | .40 |     |     |       | 1.77 |      |      |      |      |
| Confluence      | Youghiogheny   |              |   |   |      |     | .10 | .05  | .60  |     |     |     |     |     | .15 | .29 | .20 | .50 | .05 |     |    |    |    |    |    |     |     |     |     |     | .17 | T   | .05   | 2.16 |      |      |      |      |
| Corry           | Allegheny      |              |   |   | .40  |     |     | .10  |      |     |     | .36 |     |     | .20 | .05 | .38 | .30 |     |     |    |    |    |    |    |     | .11 |     |     | .15 | .06 | .08 |       | 2.19 |      |      |      |      |
| Coudersport     | Allegheny      |              |   |   | .01  |     |     | .03  |      |     |     | .13 |     | .10 | .23 |     | .13 | .09 |     |     |    |    |    |    |    | .06 |     |     | .03 | .14 |     | .02 | .06   | 1.03 |      |      |      |      |
| Derry           | Conemaugh      |              |   |   |      |     |     | .86  |      |     |     | .03 |     |     | .22 | .25 | .37 | .03 |     |     |    |    |    |    |    | .12 |     |     |     | .28 |     | .19 |       | 2.35 |      |      |      |      |
| Donora          | Monongahela    |              |   |   | .02  |     |     | 1.26 | .20  |     |     |     | .04 |     | .21 | .12 | .10 | .21 |     |     |    |    |    |    |    |     | .12 |     |     | .12 |     |     | .09   | 2.49 |      |      |      |      |
| Ebensburg       | Conemaugh      |              |   |   |      |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |     |       |      |      |      |      |      |
| Elk Lick        | Youghiogheny   |              |   |   |      |     |     | .45  |      |     |     | .25 |     |     | .25 |     | .95 | .10 |     |     |    |    |    |    |    |     |     |     |     |     |     |     | .54   | 2.54 |      |      |      |      |
| Falls Creek     | Allegheny      |              |   |   |      | .08 |     | .10  | .26  |     |     | .12 |     |     | .23 |     | .22 |     |     |     |    |    |    |    |    | .06 |     |     |     | .14 |     | .08 | 1.29  |      |      |      |      |      |
| Franklin        | Allegheny      |              |   |   |      | .08 | .14 | .23  |      |     |     | .13 |     |     | .12 | .27 |     | .75 | .08 |     |    |    |    |    |    |     | .18 |     |     | .05 | .04 | .16 | .08   | 2.31 |      |      |      |      |
| Freeport        | do             |              |   |   |      | .01 | T   |      | .11  | .13 |     |     | .08 |     | .09 | .10 | .01 | .39 | .17 |     |    |    |    |    |    |     |     | .09 |     | .05 | .03 | .03 | .01   | T    | 1.30 |      |      |      |
| Greensboro      | Monongahela    |              |   |   |      | .02 |     |      | 1.50 |     |     | .08 |     |     | .20 | .25 | .20 | .34 | T   |     |    |    |    |    |    |     |     |     |     |     | .22 | .03 | .01   | 2.85 |      |      |      |      |
| Greensburg      | Youghiogheny   |              |   |   | .05  |     |     | 1.17 | .01  |     | .01 | .02 |     |     | .22 | .08 | .25 | .33 | .04 |     |    |    |    |    |    |     | .13 |     |     |     | .22 | T   | T     | .10  | 2.63 |      |      |      |
| Greenville      | Beaver         |              |   |   |      | .49 | .17 | .07  |      |     | .15 |     |     |     | .15 |     | .11 | .15 |     |     |    |    |    |    |    |     |     |     |     | .30 |     | .05 | .15   | 2.89 |      |      |      |      |
| Grove City      | do             |              |   |   |      |     | T   | .19  |      |     | .13 |     |     |     | .31 |     | .14 | .84 |     |     |    |    |    |    |    | .04 |     |     | T   | .06 | .02 | T   | .02   | 1.75 |      |      |      |      |
| Herr's Isl. Dam | Ohio           |              |   |   |      | .05 | .06 | .03  | .33  | .07 |     | .15 |     |     | .16 | .12 | .04 | .32 | .03 |     |    |    |    |    |    |     |     |     | .07 |     | T   | .03 | T     | T    | 1.46 |      |      |      |
| Ingram          | Ohio           |              |   |   |      | .14 |     | .07  | .26  |     |     | .06 | T   |     | .18 | T   | .22 | .34 |     |     |    |    |    |    |    |     |     |     |     |     | .03 | .01 | T     | .02  | 1.45 |      |      |      |
| Irwin           | Youghiogheny   |              |   |   |      | .12 |     | .41  | .01  |     | .02 | T   |     |     | .28 | .08 | .22 | .31 |     |     |    |    |    |    |    |     | .24 |     |     |     | .10 | .02 | T     | .09  | 1.90 |      |      |      |
| Johnstown       | Conemaugh      |              |   |   |      | .03 | .02 |      | .64  |     |     | .14 |     |     | .19 | .03 | .37 | .80 |     |     |    |    |    |    |    |     |     |     |     |     | .06 | .02 | .01   | .10  | 2.52 |      |      |      |
| Keglar          | Youghiogheny   |              |   |   | T    |     | T   | .99  |      |     | .26 |     |     | .16 | .27 | .26 | .64 | .07 |     |     |    |    |    |    |    |     |     | .02 |     | T   |     | .08 | .27   | 3.16 |      |      |      |      |
| Lake Lynn       | Monongahela    |              |   |   |      |     |     | .05  | .62  |     | T   | .05 |     |     | .13 | .32 | .06 | .32 |     |     |    |    |    |    |    |     |     |     |     |     | .28 | .02 | .01   | 1.86 |      |      |      |      |
| Linesville      | Beaver         |              |   |   | .15  | .16 | .05 | .02  | .04  |     |     | .37 |     |     | .05 | .19 | .04 | .67 | .62 |     |    |    |    |    |    |     | .16 |     | .06 | .16 | .02 | T   |       | 2.76 |      |      |      |      |
| Lock No. 2      | Ohio           |              |   |   | .10  | .04 | .05 | .21  | .04  |     |     | .09 |     |     | .09 | .05 | .02 | .34 | .02 |     |    |    |    |    |    |     |     |     |     |     | .06 |     | T     | .13  | 1.13 |      |      |      |
| Lock No. 4      | Monongahela    |              |   |   | T    | .04 |     | .03  | .94  |     |     | .08 |     |     | .19 | .16 | .13 | .43 | .03 |     |    |    |    |    |    |     |     |     |     |     | .05 |     | .13   | .17  | 2.38 |      |      |      |
| Lycippus        | Conemaugh      |              |   |   |      | T   |     |      | 1.47 |     | .11 |     | .36 |     |     |     | .70 | T   |     |     |    |    |    |    |    |     |     |     |     |     | .08 |     | .47   |      | 3.19 |      |      |      |
| McKeesport      | Monongahela    |              |   |   | T    | .02 |     | .06  | .07  |     |     | T   |     |     | .06 | .15 | .07 | .12 | T   |     |    |    |    |    |    |     |     |     |     |     | .03 |     | T     | .04  | 0.58 |      |      |      |
| Meadville       | Allegheny      |              |   |   | 1.37 | .04 | .08 | .08  |      |     | .30 |     |     |     | .20 | .03 | .13 | .81 |     |     |    |    |    |    |    |     |     |     |     |     | .08 |     | .12   | .10  | 3.42 |      |      |      |
| Mount Lebanon   | Ohio           |              |   |   | .07  |     | .04 | .24  |      | T   | .04 |     |     |     | .55 | .03 | .32 | .27 |     |     |    |    |    |    |    |     |     |     |     |     | .16 |     | .02   | .05  | T    | .04  | 1.87 |      |
| Natrona         | Allegheny      |              |   |   | T    | .03 |     | .05  | .05  |     | .10 |     |     |     | .15 | .14 | .01 | .40 | .13 |     |    |    |    |    |    |     |     |     |     |     | .09 | .01 | .01   | .04  | 1.21 |      |      |      |
| New Castle      | Beaver         |              |   |   | .03  |     | .01 | .10  |      |     | .16 | .01 | .09 | .65 | .01 | .30 | .03 |     |     |     |    |    |    |    |    |     |     |     |     |     | .06 | .06 | .08   | .05  | .02  | .03  | 1.74 |      |
| Newell          | Monongahela    |              |   |   | .04  |     |     | .98  |      |     | .02 |     | .13 | .07 | .15 | .10 |     |     |     |     |    |    |    |    |    |     |     |     |     |     | .05 | .09 | .09   | .07  | 1.70 |      |      |      |
| Parkers Landing | Allegheny      |              |   |   | T    | T   | .04 | T    | .18  |     |     | .03 |     |     | .18 | .16 |     | .52 | .15 |     |    |    |    |    |    |     |     |     |     |     | .02 |     | T     | .01  | T    | T    | 1.23 |      |
| Pennline        | Beaver         |              |   |   | .09  | .20 |     | .01  | .01  |     | .17 | .17 |     |     | .08 | .03 | .06 | .68 | .62 |     |    |    |    |    |    |     |     |     |     |     | .13 |     | .10   | .14  | .05  | 2.50 |      |      |
| Pittsburgh      | Ohio           |              |   |   | .09  |     | .12 | .25  |      |     | .06 |     |     |     | .23 | .01 | .26 | .08 |     |     |    |    |    |    |    |     |     |     |     |     |     | .07 |       | .03  | .03  | .01  | T    | 1.21 |
| Punxsutawney    | Allegheny      |              |   |   |      |     |     |      |      |     |     |     |     |     |     | .10 | .21 | .24 |     |     |    |    |    |    |    |     |     |     |     |     |     | .06 | .12   | .09  | .04  | 1.44 |      |      |
| Ridgway         | do             |              |   |   | .20  |     | .11 | .14  |      |     | T   |     |     |     | .10 | .16 | .17 | .03 | .61 | .19 |    |    |    |    |    |     |     |     |     |     | .03 |     | .02   | .12  | T    | 2.02 |      |      |
| Saltsburg       | Conemaugh      |              |   |   |      | .07 |     | .02  | .44  |     |     | .10 |     |     | .16 | .17 | .03 | .61 | .19 |     |    |    |    |    |    |     |     |     |     |     | .13 |     | .02   | .12  | T    | 2.06 |      |      |
| Sharon          | Beaver         |              |   |   | .04  | .75 | T   | T    |      |     | .11 |     |     |     | .20 | .18 |     | .41 | .09 |     |    |    |    |    |    |     |     |     |     |     | .11 |     | T     | .05  | .06  | 2.00 |      |      |
| Somerset        | Youghiogheny   |              |   |   | T    |     |     | 1.12 | .06  |     | .07 | .03 |     |     | .29 | .07 | .19 | .57 | .02 |     |    |    |    |    |    |     |     |     |     |     |     | .07 |       | T    | .07  | 2.50 |      |      |
| Springdale      | Allegheny      |              |   |   | .03  | .04 |     | .28  | .03  |     |     | .08 |     |     | .19 | .19 | .02 | .27 | .04 |     |    |    |    |    |    |     |     |     |     |     | .09 |     | .01   | .01  | .04  | T    | 1.20 |      |
| Uniontown       | Monongahela    |              |   |   | .01  |     |     | 1.10 | .03  |     | .08 | .10 |     |     | .32 | .06 | .30 | .31 | .02 |     |    |    |    |    |    |     |     |     |     |     |     | .02 |       | .23  | T    | .03  | .13  | 2.70 |
| Unity Reservoir | Youghiogheny   |              |   |   | .06  |     |     | 1.15 |      |     | .07 | .03 |     |     |     |     | .12 | .43 | .05 |     |    |    |    |    |    |     |     |     |     |     |     | .10 |       | .10  | .02  |      | 1.91 |      |
| Vandergrift     | Conemaugh      |              |   |   |      |     | .32 | .07  |      |     | .04 |     |     |     | .02 |     | .76 | .34 |     |     |    |    |    |    |    |     |     |     |     |     |     | .10 | .04   | .10  |      | 1.71 |      |      |
| Warren          | Allegheny      |              |   |   | .11  |     | .11 | .16  |      |     | .30 |     |     |     | .40 | .10 | .20 | .25 |     |     |    |    |    |    |    |     |     |     |     |     |     | .10 | .04   | .10  | .03  | .05  | .03  | 2.00 |
| Waynesburg      | Monongahela    |              |   |   |      |     |     | 1.28 |      |     | .08 |     |     |     | .33 |     | .16 | .20 |     |     |    |    |    |    |    |     |     |     |     |     |     | .08 |       | .08  |      | 2.13 |      |      |
| Westford        | Beaver         |              |   |   |      | .03 |     | .40  |      |     | .22 | .10 |     |     | .26 | .14 | .80 | .58 |     |     |    |    |    |    |    |     |     |     |     |     | .03 |     | .04   |      | .20  | .04  | 2.80 |      |
| West Newton     | Youghiogheny   |              |   |   |      |     |     | 1.30 |      |     |     |     |     |     | .14 | .23 | .09 | .24 |     |     |    |    |    |    |    |     |     |     |     |     | .11 |     |       | .19  | .08  | 2.30 |      |      |
| Lake Drainage.  |                |              |   |   |      |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |     |       |      |      |      |      |      |
| Erie            | Lake Erie      |              |   |   | T    |     |     | .49  |      | .25 |     |     | .28 |     | .27 | .02 | .91 | .25 | T   |     |    |    |    |    |    |     |     |     |     |     | .11 |     | .01   | .03  | T    | .02  | .89  | 3.50 |
| Genesee         | do             |              |   |   | T    | T   | .01 | .21  |      |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |     |       |      |      |      |      |      |



## Daily Temperatures for October, 1931

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum | 74 | 77 | 81 | 82 | 84 | 83 | 78 | 80 | 63 | 66 | 73 | 60 | 64 | 62 | 75 | 59 | 52 | 53 | 63 | 69 | 69 | 68 | 69 | 68 | 71 | 61 | 64 | 68 | 68 | 55 | 54   | 68.2 |      |
|                    | Minimum | 48 | 49 | 50 | 55 | 53 | 54 | 59 | 60 | 47 | 41 | 40 | 43 | 32 | 38 | 54 | 55 | 46 | 42 | 34 | 35 | 42 | 39 | 35 | 39 | 42 | 48 | 41 | 42 | 45 | 42 | 35   | 44.7 |      |
| Altoona.....       | Maximum | 69 | 76 | 83 | 84 | 78 | 82 | 85 | 70 | 60 | 63 | 73 | 62 | 56 | 56 | 71 | 59 | 51 | 52 | 65 | 70 | 72 | 70 | 71 | 75 | 65 | 61 | 68 | 62 | 65 | 53 | 50   | 67.0 |      |
|                    | Minimum | 45 | 45 | 55 | 53 | 53 | 59 | 58 | 57 | 41 | 36 | 41 | 34 | 29 | 40 | 53 | 46 | 38 | 35 | 34 | 36 | 47 | 33 | 39 | 42 | 53 | 41 | 38 | 44 | 46 | 88 | 38   | 43.5 |      |
| Bedford.....       | Maximum | 71 | 77 | 81 | 82 | 81 | 82 | 85 | 78 | 64 | 68 | 74 | 63 | 60 | 59 | 74 | 67 | 57 | 52 | 65 | 73 | 72 | 73 | 75 | 74 | 67 | 61 | 72 | 67 | 66 | 58 | 51   | 69.3 |      |
|                    | Minimum | 40 | 46 | 47 | 51 | 45 | 54 | 60 | 60 | 43 | 39 | 40 | 37 | 30 | 42 | 53 | 45 | 42 | 41 | 29 | 30 | 45 | 34 | 37 | 40 | 59 | 36 | 37 | 47 | 50 | 41 | 41   | 43.3 |      |
| Bellefonte.....    | Maximum | 70 | 76 | 82 | 82 | 77 | 80 | 80 | 70 | 58 | 63 | 70 | 57 | 63 | 56 | 72 | 60 | 48 | 54 | 63 | 70 | 72 | 70 | 74 | 73 | 66 | 60 | 66 | 62 | 63 | 51 | 51   | 66.4 |      |
|                    | Minimum | 42 | 39 | 48 | 50 | 47 | 54 | 57 | 50 | 37 | 33 | 37 | 31 | 27 | 47 | 45 | 42 | 40 | 35 | 27 | 25 | 38 | 27 | 33 | 36 | 49 | 36 | 31 | 44 | 41 | 36 | 39   | 39.5 |      |
| Brookville.....    | Maximum | 67 | 72 | 77 | 82 | 83 | 78 | 79 | 83 | 65 | 63 | 67 | 72 | 60 | 66 | 62 | 67 | 59 | 43 | 54 | 61 | 69 | 71 | 73 | 77 | 72 | 65 | 60 | 71 | 56 | 63 | 50   | 67.0 |      |
|                    | Minimum | 33 | 36 | 39 | 45 | 41 | 45 | 53 | 50 | 43 | 31 | 28 | 37 | 28 | 25 | 42 | 42 | 41 | 36 | 27 | 23 | 23 | 28 | 24 | 31 | 30 | 34 | 27 | 27 | 39 | 35 | 33   | 34.7 |      |
| Butler.....        | Maximum | 70 | 77 | 83 | 84 | 84 | 83 | 84 | 82 | 62 | 70 | 63 | 66 | 67 | 64 | 66 | 66 | 49 | 54 | 64 | 63 | 72 | 73 | 74 | 77 | 65 | 68 | 70 | 67 | 67 | 63 | 47   | 69.5 |      |
|                    | Minimum | 46 | 44 | 47 | 50 | 58 | 60 | 58 | 56 | 42 | 30 | 32 | 30 | 28 | 48 | 57 | 47 | 38 | 30 | 26 | 27 | 37 | 27 | 38 | 38 | 36 | 32 | 33 | 50 | 39 | 32 | 40   | 40.5 |      |
| Carlisle.....      | Maximum | 74 | 77 | 87 | 86 | 86 | 84 | 83 | 82 | 67 | 68 | 77 | 70 | 65 | 60 | 72 | 72 | 58 | 58 | 65 | 67 | 74 | 70 | 74 | 68 | 72 | 67 | 69 | 65 | 65 | 64 | 55   | 71.0 |      |
|                    | Minimum | 40 | 43 | 53 | 51 | 47 | 54 | 63 | 64 | 46 | 35 | 38 | 42 | 28 | 39 | 51 | 47 | 45 | 39 | 27 | 27 | 40 | 33 | 31 | 38 | 46 | 47 | 32 | 38 | 52 | 35 | 32   | 42.0 |      |
| Catawissa.....     | Maximum | 74 | 80 | 85 | 88 | 85 | 82 | 86 | 75 | 70 | 75 | 69 | 70 | 60 | 76 | 67 | 59 | 56 | 67 | 72 | 72 | 71 | 75 | 76 | 74 | 64 | 67 | 62 | 65 | 56 | 53 | 71.0 |      |      |
|                    | Minimum | 47 | 46 | 45 | 54 | 52 | 53 | 58 | 53 | 42 | 36 | 38 | 37 | 28 | 41 | 53 | 49 | 44 | 35 | 27 | 28 | 34 | 30 | 29 | 37 | 53 | 41 | 35 | 43 | 47 | 38 | 37   | 41.6 |      |
| Chambersburg.....  | Maximum | 76 | 81 | 86 | 85 | 85 | 89 | 88 | 86 | 68 | 71 | 75 | 71 | 61 | 61 | 60 | 66 | 58 | 61 | 69 | 73 | 78 | 76 | 74 | 76 | 74 | 76 | 69 | 70 | 66 | 66 | 57   | 72.7 |      |
|                    | Minimum | 45 | 48 | 53 | 54 | 50 | 57 | 62 | 45 | 36 | 38 | 40 | 29 | 42 | 54 | 49 | 45 | 38 | 30 | 30 | 41 | 33 | 35 | 39 | 51 | 44 | 36 | 44 | 51 | 39 | 39 | 43.7 |      |      |
| Chambersville..... | Maximum | 69 | 77 | 82 | 81 | 79 | 81 | 84 | 73 | 63 | 69 | 73 | 64 | 66 | 65 | 68 | 61 | 51 | 54 | 62 | 69 | 72 | 72 | 77 | 71 | 67 | 63 | 73 | 68 | 64 | 53 | 48   | 68.4 |      |
|                    | Minimum | 46 | 41 | 49 | 48 | 51 | 60 | 59 | 54 | 42 | 34 | 42 | 33 | 34 | 48 | 56 | 44 | 39 | 32 | 26 | 27 | 40 | 28 | 36 | 44 | 52 | 35 | 30 | 47 | 43 | 37 | 39   | 41.8 |      |
| Claysville.....    | Maximum | 72 | 79 | 83 | 86 | 81 | 85 | 87 | 79 | 64 | 73 | 69 | 57 | 69 | 65 | 69 | 62 | 53 | 58 | 68 | 71 | 74 | 73 | 80 | 74 | 67 | 64 | 74 | 69 | 69 | 53 | 47   | 70.1 |      |
|                    | Minimum | 47 | 52 | 50 | 50 | 54 | 57 | 61 | 55 | 45 | 31 | 44 | 35 | 34 | 54 | 58 | 46 | 39 | 29 | 26 | 29 | 42 | 38 | 43 | 46 | 56 | 32 | 36 | 47 | 40 | 36 | 39   | 43.6 |      |
| Clearfield.....    | Maximum | 74 | 82 | 86 | 87 | 81 | 82 | 85 | 71 | 67 | 73 | 70 | 65 | 70 | 72 | 72 | 60 | 53 | 60 | 68 | 73 | 77 | 75 | 72 | 74 | 67 | 65 | 73 | 71 | 71 | 52 | 60   | 71.2 |      |
|                    | Minimum | 40 | 42 | 49 | 49 | 45 | 55 | 55 | 51 | 37 | 32 | 38 | 30 | 25 | 40 | 42 | 45 | 37 | 34 | 26 | 21 | 37 | 33 | 28 | 32 | 50 | 38 | 50 | 40 | 40 | 33 | 40   | 39.1 |      |
| Coatesville.....   | Maximum | 75 | 76 | 82 | 83 | 85 | 85 | 82 | 82 | 61 | 67 | 73 | 67 | 65 | 65 | 76 | 62 | 55 | 54 | 64 | 69 | 71 | 67 | 70 | 69 | 73 | 62 | 64 | 70 | 64 | 62 | 55   | 69.5 |      |
|                    | Minimum | 51 | 53 | 54 | 59 | 53 | 62 | 60 | 61 | 47 | 40 | 41 | 42 | 35 | 45 | 57 | 54 | 45 | 38 | 35 | 35 | 45 | 39 | 39 | 42 | 50 | 46 | 41 | 42 | 51 | 38 | 43   | 46.4 |      |
| Corry.....         | Maximum | 50 | 78 | 84 | 84 | 85 | 80 | 80 | 75 | 68 | 67 | 65 | 65 | 62 | 29 | 48 | 46 | 41 | 34 | 32 | 29 | 40 | 33 | 26 | 39 | 48 | 46 | 34 | 31 | 38 | 40 | 33   | 36   | 39.4 |
|                    | Minimum | 38 | 50 | 43 | 47 | 56 | 58 | 50 | 52 | 28 | 28 | 45 | 32 | 29 | 48 | 46 | 41 | 34 | 32 | 29 | 40 | 33 | 26 | 39 | 48 | 46 | 34 | 31 | 38 | 40 | 33 | 36   | 44.3 |      |
| Emporium.....      | Maximum | 69 | 72 | 76 | 76 | 75 | 78 | 72 | 57 | 61 | 70 | 65 | 63 | 58 | 66 | 57 | 47 | 51 | 60 | 66 | 66 | 74 | 73 | 63 | 58 | 64 | 58 | 60 | 50 | 49 | 49 | 49   | 40.6 |      |
|                    | Minimum | 43 | 43 | 48 | 51 | 48 | 58 | 58 | 50 | 42 | 33 | 40 | 30 | 25 | 48 | 50 | 46 | 41 | 36 | 28 | 31 | 34 | 32 | 31 | 38 | 50 | 35 | 28 | 43 | 42 | 39 | 39   | 40.6 |      |
| Erie.....          | Maximum | 68 | 72 | 78 | 84 | 78 | 75 | 82 | 70 | 57 | 66 | 69 | 60 | 69 | 64 | 65 | 55 | 47 | 38 | 41 | 59 | 70 | 59 | 65 | 76 | 67 | 62 | 56 | 69 | 62 | 64 | 50   | 49   | 64.6 |
|                    | Minimum | 59 | 55 | 62 | 58 | 63 | 63 | 65 | 61 | 45 | 41 | 50 | 42 | 41 | 54 | 54 | 47 | 38 | 41 | 43 | 49 | 46 | 41 | 53 | 57 | 53 | 44 | 44 | 48 | 44 | 42 | 41   | 49.5 |      |
| Franklin.....      | Maximum | 77 | 82 | 82 | 86 | 82 | 84 | 87 | 84 | 62 | 69 | 70 | 60 | 68 | 63 | 66 | 57 | 48 | 55 | 68 | 71 | 73 | 76 | 78 | 68 | 63 | 64 | 68 | 66 | 63 | 48 | 46   | 68.3 |      |
|                    | Minimum | 40 | 39 | 40 | 44 | 42 | 54 | 57 | 59 | 42 | 32 | 32 | 31 | 27 | 30 | 52 | 44 | 38 | 30 | 27 | 28 | 29 | 28 | 29 | 39 | 42 | 35 | 32 | 37 | 40 | 34 | 38   | 38.0 |      |
| Freeland.....      | Maximum | 67 | 70 | 76 | 78 | 79 | 77 | 71 | 73 | 58 | 63 | 67 | 62 | 65 | 55 | 70 | 59 | 50 | 48 | 60 | 66 | 63 | 62 | 71 | 69 | 67 | 56 | 62 | 66 | 56 | 50 | 49   | 64.0 |      |
|                    | Minimum | 50 | 49 | 55 | 62 | 60 | 59 | 57 | 51 | 39 | 41 | 45 | 34 | 34 | 46 | 52 | 49 | 39 | 32 | 32 | 42 | 42 | 46 | 38 | 44 | 49 | 48 | 40 | 35 | 47 | 48 | 39   | 45.1 |      |
| Genesee.....       | Maximum | 68 | 77 | 76 | 79 | 75 | 70 | 78 | 72 | 68 | 63 | 67 | 58 | 68 | 61 | 65 | 56 | 49 | 41 | 40 | 37 | 60 | 66 | 60 | 62 | 71 | 72 | 60 | 54 | 61 | 59 | 45   | 61.8 |      |
|                    | Minimum | 45 | 33 | 40 | 40 | 41 | 47 | 44 | 45 | 42 | 23 | 25 | 29 | 21 | 34 | 40 | 41 | 40 | 35 | 25 | 27 | 35 | 23 | 30 | 38 | 37 | 37 | 24 | 45 | 34 | 30 | 36   | 35.4 |      |
| Gettysburg.....    | Maximum | 76 | 79 | 86 | 86 | 85 | 87 | 87 | 85 | 72 | 71 | 75 | 70 | 65 | 64 | 78 | 65 | 58 | 57 | 65 | 72 | 74 | 73 | 74 | 70 | 73 | 64 | 69 | 67 | 66 | 57 | 51   | 71.6 |      |
|                    | Minimum | 44 | 51 | 53 | 56 | 53 | 58 | 64 | 67 | 49 | 39 | 40 | 48 | 34 | 45 | 54 | 51 | 45 | 38 | 31 | 42 | 37 | 36 | 40 | 55 | 47 | 37 | 48 | 51 | 39 | 40 | 45.9 |      |      |
| Greensburg.....    | Maximum | 69 | 77 | 81 | 84 | 80 | 84 | 86 | 74 | 61 | 70 | 72 | 60 | 67 | 66 | 70 | 60 | 48 | 54 | 65 | 70 | 71 | 80 | 70 | 71 | 80 | 70 | 66 | 63 | 75 | 64 | 62   | 49   | 68.5 |
|                    | Minimum | 48 | 53 | 54 | 51 | 55 | 59 | 61 | 55 | 44 | 36 | 44 | 35 | 35 | 51 | 58 | 45 | 40 | 36 | 30 | 31 | 45 | 36 | 41 | 47 | 58 | 37 | 38 | 50 | 45 | 41 | 40   | 45.0 |      |
| Grove City.....    | Maximum | 72 | 78 | 82 | 81 | 84 | 81 | 83 | 76 | 66 | 67 | 68 | 65 | 63 | 64 | 57 | 48 | 53 | 64 | 71 | 70 | 71 | 77 | 77 | 74 | 64 | 63 | 67 | 63 | 68 | 53 | 49   | 67.8 |      |
|                    | Minimum | 47 | 40 | 49 | 45 | 58 | 56 | 59 | 49 | 44 | 32 | 48 | 34 | 37 | 49 | 55 | 45 | 36 | 31 | 27 | 29 | 40 | 30 | 42 | 43 | 52 | 37 | 36 | 49 | 36 | 37 | 42.5 |      |      |
| Hamburg.....       | Maximum | 75 | 77 | 80 | 82 | 84 | 82 | 83 | 81 | 67 | 65 | 72 | 70 | 65 | 63 | 76 | 75 | 57 | 57 | 63 | 69 | 71 | 71 | 70 | 72 | 72 | 70 | 69 | 72 | 64 | 63 | 55   | 50   | 43.3 |
|                    | Minimum | 47 | 50 | 49 | 54 | 56 | 55 | 58 | 60 | 45 | 39 | 39 | 44 | 30 | 46 | 55 | 42 | 46 | 36 | 30 | 38 | 33 | 34 | 33 | 38 | 40 | 42 | 44 | 42 | 42 | 32 | 36   | 30   | 43.9 |
| Harrisburg.....    | Maximum | 74 | 79 | 83 | 84 | 82 | 84 | 84 | 80 | 62 | 66 | 73 | 58 | 64 | 61 | 74 | 64 | 53 | 55 | 64 | 70 | 73 | 68 | 71 | 70 | 71 | 63 | 67 | 62 | 67 | 56 | 53   | 68.9 |      |
|                    | Minimum | 52 | 55 | 58 | 60 | 58 | 62 | 62 | 56 | 49 | 43 | 45 | 45 | 37 | 50 | 56 | 51 | 46 | 42 | 40 | 38 | 49 | 45 | 41 | 47 | 56 | 50 | 44 | 48 | 47 | 42 | 42   | 48.9 |      |
| Hawley.....        | Maximum | 68 | 73 | 79 | 73 | 82 | 78 | 71 | 70 | 63 | 65 | 70 | 66 | 63 | 59 | 70 | 63 | 56 | 46 | 60 | 67 | 66 | 63 | 66 | 69 | 68 | 57 | 64 | 65 | 58 | 53 | 48   | 65.1 |      |
|                    | Minimum | 38 | 38 | 39 | 45 | 47 | 49 | 48 | 57 | 38 | 31 | 31 | 33 | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

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32

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVI.

NOVEMBER, 1931.

No. 11.

### GENERAL SUMMARY.

Although the first week of the month averaged nearly normal a long period of abnormally high temperatures, beginning with the 9th and ending with the 25th, during which 17-day period an average daily excess of nearly 15° was recorded, resulted in the highest average temperature experienced in Pennsylvania in November since State weather records were inaugurated. The last week of the month was marked by a return to near-normal conditions on the 26th and the first general State-wide snowfall of the season on the 27th. This snow averaged about three inches, but with a return to abnormally high temperature conditions on the 29th and 30th the snow-cover had almost entirely disappeared by the end of the month. Philadelphia's mean for the month, 54.0°, established a new record for any station in the State during November, the previous warmest being 52.4° at Lancaster in 1896. The abnormally warm weather resulted in many reports of budding of flowers as late as the 25th of the month. Precipitation, like that of October, was again subnormal, averaging but little more than fifty percent of the normal amount, and further increasing the water shortage. Many well and springs were reported dry for the first time in their history, although the snow and light rains of the last week improved conditions to a slight degree. The top soil, however, remained in fairly good condition. Due to the warm, humid conditions, much foggy weather occurred during the month, especially during the latter half. With the exception of some interruption due to the snow of the 27th the month was quite favorable for all out-of-door work and by the end of the month field work was about completed. In the cities, building operations suffered very little from inclement weather. Corn-husking and apple-gathering were completed during the first half of the month in all sections, and fall plowing was about completed in all parts of the State by the end of the month. No destructive storms were reported.

F. H. A.

### TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 49.2°, or 8.0° above the November normal. The highest monthly mean was 54.0°, at Philadelphia,

and the lowest 42.5, at Gouldsboro. Extremes for the month ranged from a maximum of 80°, at Hyndman on the 12th, to a minimum of 12° at Mount Pocono on the 7th and 27th. The greatest daily range of temperature was 46° at Mauch Chunk on the 10th.

### PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from the observations of 145 stations, was 1.52 inches, which is 1.34 inches less than the November normal. The greatest monthly amount was 4.42 inches at Corry, while the least, 0.36 inch, fell at Reading. The greatest amount recorded in any 24 consecutive hours was 1.50 inches at Elk Lick on the 30th. Snowfall averaged 2.9 inches, compared with a normal November amount of 2.5 inches. The greatest monthly total was 3.0 inches at Clearfield, and the greatest 24-hour fall was 7.5 inches at Gouldsboro on the 27th.

### COMPARATIVE DATA FOR NOVEMBER

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888.....                | 42.2        | 79      | 4      | 3.37          | 6.22     | 1.99  | 9           | 7             | 14     | 11                     |
| 1889.....                | 41.8        | 73      | 10     | 6.72          | 10.16    | 2.72  | 5           | 8             | 17     | 15                     |
| 1890.....                | 41.8        | 78      | 10     | 1.49          | 4.29     | 0.78  | 9           | 10            | 11     | 8                      |
| 1891.....                | 39.7        | 76      | 6      | 2.65          | 5.70     | 1.09  | 9           | 8             | 13     | 9                      |
| 1892.....                | 39.0        | 80      | 10     | 4.34          | 7.08     | 1.61  | 6           | 8             | 16     | 12                     |
| 1893.....                | 39.2        | 68      | -4     | 2.93          | 5.69     | 1.16  | 8           | 11            | 11     | 8                      |
| 1894.....                | 38.2        | 74      | 6      | 2.50          | 3.64     | 0.74  | 10          | 9             | 12     | 9                      |
| 1895.....                | 42.9        | 78      | 6      | 2.48          | 5.73     | 0.97  | 10          | 8             | 11     | 10                     |
| 1896.....                | 46.0        | 83      | 12     | 3.55          | 8.05     | 0.82  | 8           | 9             | 13     | 10                     |
| 1897.....                | 41.6        | 76      | 2      | 5.28          | 7.04     | 2.37  | 6           | 8             | 16     | 14                     |
| 1898.....                | 40.0        | 73      | 2      | 4.03          | 7.34     | 1.44  | 8           | 9             | 13     | 11                     |
| 1899.....                | 41.5        | 72      | 8      | 2.66          | 4.86     | 0.61  | 10          | 8             | 12     | 7                      |
| 1900.....                | 43.5        | 79      | 7      | 4.10          | 6.92     | 1.67  | 6           | 9             | 15     | 12                     |
| 1901.....                | 36.0        | 76      | 7      | 2.56          | 5.00     | 1.23  | 7           | 8             | 15     | 8                      |
| 1902.....                | 47.3        | 78      | 9      | 1.53          | 3.02     | 0.50  | 10          | 8             | 12     | 8                      |
| 1903.....                | 36.9        | 78      | 0      | 2.18          | 5.33     | 0.88  | 11          | 8             | 11     | 7                      |
| 1904.....                | 38.8        | 79      | -4     | 1.14          | 3.31     | 0.14  | 10          | 9             | 11     | 6                      |
| 1905.....                | 39.1        | 68      | 5      | 2.47          | 3.72     | 1.08  | 11          | 8             | 11     | 9                      |
| 1906.....                | 41.5        | 80      | 9      | 1.48          | 3.08     | 0.54  | 12          | 6             | 12     | 8                      |
| 1907.....                | 39.8        | 70      | 4      | 3.60          | 7.52     | 1.05  | 13          | 8             | 9      | 10                     |
| 1908.....                | 41.2        | 75      | -2     | 0.90          | 1.97     | 0.20  | 12          | 8             | 10     | 5                      |
| 1909.....                | 46.4        | 80      | 15     | 1.40          | 3.97     | 0.26  | 12          | 8             | 19     | 7                      |
| 1910.....                | 36.8        | 68      | 9      | 2.45          | 5.63     | 0.33  | 4           | 7             | 10     | 11                     |
| 1911.....                | 37.8        | 77      | 7      | 2.84          | 5.68     | 0.99  | 7           | 7             | 16     | 10                     |
| 1912.....                | 43.0        | 81      | 7      | 2.17          | 4.83     | 0.61  | 10          | 8             | 12     | 7                      |
| 1913.....                | 43.9        | 79      | 10     | 3.05          | 6.34     | 1.43  | 10          | 5             | 15     | 11                     |
| 1914.....                | 40.6        | 81      | -2     | 1.76          | 4.27     | 0.57  | 12          | 9             | 9      | 6                      |
| 1915.....                | 42.1        | 79      | 13     | 2.28          | 5.32     | 0.22  | 10          | 9             | 11     | 10                     |
| 1916.....                | 41.3        | 79      | 4      | 2.27          | 7.97     | 0.88  | 13          | 6             | 11     | 9                      |
| 1917.....                | 37.6        | 69      | -5     | 0.63          | 1.37     | 0.12  | 14          | 7             | 9      | 5                      |
| 1918.....                | 42.1        | 76      | 11     | 2.03          | 4.07     | 0.44  | 12          | 6             | 12     | 7                      |
| 1919.....                | 41.2        | 76      | 11     | 5.35          | 8.45     | 1.84  | 11          | 7             | 12     | 12                     |
| 1920.....                | 40.3        | 75      | 5      | 3.54          | 6.42     | 1.85  | 7           | 7             | 16     | 11                     |
| 1921.....                | 42.3        | 80      | 3      | 5.75          | 9.14     | 3.20  | 5           | 7             | 18     | 16                     |
| 1922.....                | 42.9        | 73      | 12     | 1.21          | 4.52     | 0.23  | 10          | 7             | 13     | 9                      |
| 1923.....                | 40.7        | 70      | 10     | 2.83          | 6.84     | 1.55  | 12          | 5             | 13     | 10                     |
| 1924.....                | 40.7        | 78      | -9     | 1.54          | 3.29     | 0.56  | 12          | 8             | 10     | 7                      |
| 1925.....                | 39.5        | 71      | 4      | 3.56          | 6.07     | 1.50  | 11          | 7             | 12     | 10                     |
| 1926.....                | 40.4        | 79      | -1     | 4.49          | 9.84     | 2.00  | 9           | 7             | 14     | 10                     |
| 1927.....                | 46.2        | 85      | 10     | 4.95          | 11.36    | 2.21  | 7           | 7             | 16     | 14                     |
| 1928.....                | 43.4        | 81      | 4      | 2.32          | 5.71     | 1.05  | 7           | 8             | 15     | 12                     |
| 1929.....                | 41.1        | 81      | -10    | 3.39          | 5.07     | 1.89  | 8           | 8             | 14     | 12                     |
| 1930.....                | 42.0        | 75      | -15    | 1.48          | 4.29     | 0.22  | 10          | 7             | 13     | 9                      |
| 1931.....                | 49.2        | 80      | 12     | 1.52          | 4.42     | 0.36  | 10          | 8             | 12     | 9                      |
| Normal and Extremes..... | 41.2        | 85      | -15    | 2.86          | 11.36    | 0.12  | 9           | 8             | 13     | 10                     |



## Climatological Data for November, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 19                      | 48.9                         |                           | 73      | 21†  | 25     | 7    | 35                       | 0.43  | -2.25                     | 0.22                 | 1.5                       | 7                            | 16    | 9          | 5                            | sw.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 48.8                         | +8.4                      | 74      | 12   | 26     | 27   | 33                       | 2.24  | +0.01                     | 0.76                 | 4.0                       | 10                           | 16    | 8          | 6                            | w.        | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             |                         | 48.4                         | +4.2                      | 73      | 21   | 22     | 7    | 31                       | 0.64  | -2.90                     | 0.36                 | 3.0                       | 3                            |       |            |                              |           | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 9                       | 48.6                         |                           | 79      | 16   | 23     | 7    | 39                       | 0.93  |                           | 0.50                 | 5.0                       | 8                            | 15    | 3          | 12                           | nw.       | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           |                         | 52.5                         |                           | 76      | 12   | 27     | 27   | 37                       | 0.92  |                           | 0.43                 | 3.5                       | 7                            | 14    | 9          | 7                            | nw.       | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 23                      | 46.8                         | +5.4                      | 74      | 12   | 23     | 7    | 42                       | 0.90  | -1.21                     | 0.38                 | 3.0                       | 7                            | 5     | 6          | 19                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 51.4                         | +7.2                      | 75      | 21†  | 27     | 7    | 31                       | 0.71  | -2.39                     | 0.31                 | 3.2                       | 6                            | 10    | 2          | 18                           | w.        | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 49.4                         | +8.3                      | 77      | 18   | 23     | 7    | 45                       | 0.79  | -2.32                     | 0.37                 | 4.0                       | 5                            | 14    | 8          | 10                           | nw.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 50.9                         | +8.5                      | 77      | 22   | 20     | 7    | 41                       | 0.41  | -2.33                     | 0.32                 | 3.5                       | 3                            | 13    | 5          | 12                           |           | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 48.0                         | +7.8                      | 75      | 9    | 22     | 27   | 37                       | 0.80  | -1.46                     | 0.40                 | 4.0                       | 6                            | 11    | 4          | 15                           |           | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 51.0                         | +9.1                      | 79      | 22   | 27     | 7    | 38                       | 0.81  | -1.89                     | 0.48                 | 3.6                       | 5                            | 9     | 13         | 8                            | sw.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 50.6                         | +9.8                      | 79      | 24   | 26     | 27†  | 40                       | 3.57  | +0.52                     | 0.70                 | 8.0                       | 12                           | 6     | 13         | 11                           | sw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 50.1                         | +7.3                      | 74      | 21   | 23     | 7    | 40                       | 0.74  | -2.41                     | 0.23                 | 2.0                       | 7                            | 13    | 4          | 13                           | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 48.0                         | +6.4                      | 73      | 21   | 18     | 7    | 32                       | 0.82  | -1.76                     | 0.44                 | 2.2                       | 7                            | 14    | 7          | 9                            | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 47.8                         | +8.6                      | 69      | 10†  | 26     | 14   | 37                       | 2.62  | -0.27                     | 0.64                 | 2.5                       | 13                           | 3     | 12         | 15                           | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 50.4                         | +7.5                      | 73      | 18†  | 23     | 7    | 34                       | 0.60  | -1.87                     | 0.27                 | 2.1                       | 4                            | 10    | 5          | 15                           | sw.       | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 46.8                         | +9.8                      | 73      | 23   | 20     | 7    | 32                       | 1.16  | -2.52                     | 0.36                 | 4.2                       | 15                           | 4     | 13         | 13                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 51.3                         | +8.1                      | 77      | 18   | 21     | 7    | 41                       | 0.92  | -1.67                     | 0.36                 | 2.0                       | 7                            | 14    | 7          | 9                            | w.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 58                      | 51.2                         | +9.2                      | 75      | 10†  | 27     | 7    | 40                       | 0.90  | -1.80                     | 0.45                 | 3.0                       | 7                            | 10    | 10         | 10                           | s.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 27                      | 47.6                         | +8.0                      | 74      | 22   | 14     | 7    | 42                       | 0.84  | -2.30                     | 0.53                 | 3.0                       | 4                            | 15    | 6          | 9                            | nw.       | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 42.5                         |                           | 66      | 10†  | 14     | 7    | 36                       | 1.83  | -1.44                     | 0.72                 | 7.5                       | 10                           | 17    | 7          | 6                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      |                              |                           | 75P     | 23   | 28P    | 26   | 31P                      | 1.22  | -1.66                     | 0.60                 | 4.1                       | 6                            |       |            |                              |           | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 53.2                         | +8.6                      | 78      | 16   | 25     | 7    | 36                       | 0.56  | -1.58                     | 0.29                 | 2.0                       | 5                            | 14    | 7          | 9                            | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 51.2                         | +8.4                      | 74      | 18   | 30     | 7    | 32                       | 0.73  | -1.53                     | 0.36                 | 2.2                       | 6                            | 3     | 14         | 13                           | w.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 13                      | 46.0                         | +6.5                      | 73      | 23   | 17     | 7    | 45                       | 0.78  | -1.94                     | 0.21                 | 2.1                       | 10                           | 11    | 10         | 9                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 53.8                         | +9.0                      | 79      | 24   | 29     | 7    | 32                       | 0.44  | -1.88                     | 0.20                 | 1.0                       | 6                            | 7     | 14         | 9                            |           | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 49.9                         | +8.2                      | 79      | 12   | 25     | 14   | 44                       | 1.58  | -0.80                     | 0.45                 | 3.0                       | 9                            | 8     | 13         | 9                            | nw.       | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 50.8                         | +8.5                      | 80      | 12   | 20     | 7    | 44                       | 0.95  | -0.99                     | 0.40                 | 3.0                       | 7                            | 8     | 3          | 19                           |           | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 46.4                         | +3.0                      | 69      | 18   | 25     | 5    | 35                       | 0.58  | -1.95                     | 0.25                 | 2.5                       | 5                            | 15    | 9          | 6                            | s.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 48.4                         | +9.4                      | 75      | 23   | 18     | 7    | 43                       | 0.50  | -1.83                     | 0.20                 | 2.0                       | 4                            | 10    | 8          | 12                           |           | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 47                      | 49.8                         | +7.3                      | 75      | 18†  | 26     | 7    | 37                       | 0.93  | -1.96                     | 0.28                 | 3.6                       | 8                            | 8     | 12         | 9                            | w.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 55                      | 49.0                         | +8.5                      | 75      | 10   | 23     | 7    | 43                       | 0.62  | -1.98                     | 0.38                 | 3.0                       | 8                            | 6     | 10         | 14                           | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 51.0                         | +8.1                      | 75      | 22   | 27     | 7    | 38                       | 1.14  | -1.27                     | 0.39                 | 3.0                       | 11                           | 4     | 13         | 13                           | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 49.4                         | +7.6                      | 78      | 22†  | 18     | 7†   | 41                       | 0.83  | -2.49                     | 0.45                 | 2.0                       | 9                            | 10    | 9          | 11                           | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 53.4                         |                           | 75      | 14†  | 30     | 7    | 33                       | 0.90  |                           | 0.34                 | 3.4                       | 5                            | 13    | 7          | 10                           | sw.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 48.6                         | +7.6                      | 77      | 10   | 18     | 7    | 46                       | 0.47  | -2.97                     | 0.33                 | 4.0                       | 4                            | 14    | 4          | 12                           | s.        | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 27                      | 49.7                         | +8.3                      | 77      | 13   | 25     | 7    | 43                       | 0.77  | -1.42                     | 0.28                 | 3.0                       | 8                            | 9     | 3          | 8                            | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 45.5                         | +8.1                      | 70      | 10†  | 16     | 7†   | 34                       | 1.50  | -1.16                     | 0.60                 | 2.0                       | 7                            | 10    | 6          | 14                           | s.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 45.2                         | +8.9                      | 70      | 23   | 12     | 7†   | 33                       | 1.59  | -1.42                     | 0.33                 | 2.0                       | 9                            | 20    | 1          | 9                            | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 45.0                         | +5.5                      | 71      | 22   | 15     | 7    | 37                       | 1.30  | -1.80                     | 0.51                 | 2.5                       | 6                            | 16    | 5          | 9                            | n.        | H. O. Hacker.               |
| Neshaminy Falls†   | Bucks        | 60              | 42                      | 50.0                         | +7.8                      | 75      | 21   | 20     | 7    | 39                       | 1.16  | -1.26                     | 0.55                 | 5.5                       | 7                            | 12    | 3          | 15                           | w.        | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 13                      | 48.1                         |                           | 74      | 21†  | 20     | 7    | 38                       | 0.81  | -2.08                     | 0.50                 | 3.1                       | 5                            | 16    | 5          | 9                            | sw.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 60                      | 54.0                         | +8.3                      | 74      | 21   | 34     | 27   | 23                       | 1.00  | -1.70                     | 0.40                 | 1.2                       | 7                            | 8     | 11         | 11                           | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 53.2                         |                           | 75      | 21   | 31     | 7    | 22                       | 0.85  |                           | 0.39                 | 3.0                       | 5                            | 9     | 10         | 11                           |           | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 52.2                         | +6.5                      | 73      | 13   | 31     | 7    | 22                       | 0.82  | -1.53                     | 0.37                 | 1.6                       | 7                            |       |            |                              |           | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 21                      | 50.9                         | +7.6                      | 72      | 10†  | 24     | 7    | 39                       | 0.72  | -2.15                     | 0.40                 | 4.0                       | 4                            | 12    | 10         | 8                            | sw.       | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 46                      | 48.2                         | +7.0                      | 72      | 10†  | 19     | 7    | 39                       | 0.71  | -2.43                     | 0.32                 | 2.5                       | 6                            | 6     | 11         | 13                           | nw.       | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 51.2                         | +8.7                      | 73      | 21   | 29     | 7    | 24                       | 0.36  | -2.37                     | 0.15                 | 1.5                       | 4                            | 7     | 10         | 13                           | w.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 37                      | 49.0                         | +8.5                      | 72      | 23   | 24     | 7    | 32                       | 0.62  | -2.15                     | 0.24                 | 2.0                       | 9                            | 6     | 16         | 8                            | sw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 41                      | 49.2                         | +7.5                      | 74      | 10   | 21     | 7    | 41                       | 0.54  | -2.22                     | 0.24                 | 3.0                       | 8                            | 9     | 12         | 9                            | sw.       | Dr. George E. Fisher.       |
| Shawmont†          | Philadelphia | 51              | 35                      | 50.9                         | +6.1                      | 72      | 21   | 24     | 7    | 29                       | 0.94  | -1.88                     | 0.40                 | 3.0                       | 5                            | 5     | 12         | 13                           | nw.       | W. S. Guiles.               |
| State College      | Center       | 1,217           | 47                      | 47.7                         | +7.9                      | 73      | 12   | 27     | 7†   | 36                       | 1.04  | -1.37                     | 0.40                 | 3.6                       | 7                            | 8     | 14         | 8                            | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 17                      | 48.0                         | +7.5                      | 76      | 10   | 21     | 7†   | 45                       | 1.07  | -2.21                     | 0.63                 | 2.0                       | 9                            | 11    | 4          | 15                           | sw.       | State Normal School.        |
| Towanda            | Bradford     | 754             | 37                      | 48.1                         | +8.5                      | 75      | 10   | 24     | 7†   | 40                       | 0.77  | -1.40                     | 0.20                 | 2.0                       | 12                           | 2     | 13         | 15                           | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 61                      | 46.6                         | +9.1                      | 75      | 23   | 14     | 7    | 45                       | 0.95  | -1.67                     | 0.36                 | 3.5                       | 7                            | 12    | 8          | 10                           | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 82                      | 51.2                         | +8.3                      | 72      | 16†  | 28     | 7    | 27                       | 1.50  | -2.03                     | 0.50                 | 3.0                       | 6                            | 16    | 7          | 7                            | sw.       | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 45                      | 48.8                         | +7.7                      | 73      | 10   | 20     | 7    | 40                       | 0.80  | -1.78                     | 0.20                 | 2.3                       | 13                           | 5     | 4          | 21                           | se.       | Miss Veronica E. April.     |
| York               | York         | 400             | 43                      | 49.8                         | +6.8                      | 76      | 22   | 20     | 7    | 36                       | 0.44  | -2.05                     | 0.22                 | 2.0                       | 3                            | 13    | 7          | 10                           | s.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam†        | Beaver       | 700             | 39                      | 49.2                         | +5.9                      | 74      | 20   | 27     | 26   | 33                       | 2.14  | -0.41                     | 0.51                 | 1.5                       | 14                           | 5     | 12         | 13                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 45.9                         | +7.0                      | 70      | 9†   | 18     | 28   | 40                       | 3.56  | +0.11                     | 0.70                 | 3.0                       | 16                           | 5     | 5          | 20                           | sw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 45.4                         | +7.9                      | 72      | 17†  | 22     | 15   | 43                       | 2.47  | -0.54                     | 0.47                 | 2.5                       | 14                           | 10    | 5          | 15                           |           | John Fawcett.               |
| Butler             | Butler       | 1,152           | 17                      | 49.4                         |                           | 76      | 20   | 25     | 14   | 40                       | 2.08  | -0.80                     | 0.53                 | 2.5                       | 9                            | 7     | 9          | 14                           | w.        | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



Daily Precipitation for November, 1931

| Stations           | Drainage Basin | Day of month |     |     |     |     |     |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     | Total |      |      |      |
|--------------------|----------------|--------------|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|------|------|------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25 | 26  | 27  | 28  | 29  | 30  |       | 31   |      |      |
| Atlantic Drainage. |                |              |     |     |     |     |     |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |       |      |      |      |
| Allentown\|\|\| | Lehigh         |              |     |     |     |     |     |     |   |     |     |     |     |     |     | .02 | .03 |     |     |     | .01 | T.  |     |     |     |    |     | T.  | .02 | .20 | .01 | .14   | 0.43 |      |      |
| Altoona            | Juniata        |              |     |     |     |     |     |     |   |     | .03 |     | .76 |     | .16 | T.  | .05 |     | .05 |     |     |     |     | .13 |     |    |     | .04 | T.  | .44 | .22 | .17   | T.   | 2.24 |      |
| Ansonia\|\|\| | W. Br. Susq.   | .06          | .02 |     |     |     | .10 |     |   |     |     | .32 |     |     | .11 | .05 |     | .14 | T.  |     |     |     | .20 |     |     |    |     |     | T.  | .86 | T.  | .17   | T.   | 1.81 |      |
| Ardmore            | Lower Del.     | T.           |     |     |     |     |     |     |   |     |     |     |     |     | T.  |     |     | T.  |     | .17 | T.  |     |     |     | .01 |    |     |     |     | .50 | .03 | .29   | 0.64 |      |      |
| Arendtsville\|\|\| | Lower Susq.    |              |     |     |     |     |     |     |   | .04 |     |     |     |     | .01 | .01 |     |     |     | .04 |     |     |     |     |     |    |     |     |     | .40 | .02 |       | .55  | 0.93 |      |
| Baker's Summit     | Juniata        |              |     |     |     |     |     |     |   |     | .03 | .02 | .19 | .04 | .03 | .06 |     | .06 |     |     |     |     |     |     |     |    |     |     |     | .34 |     |       | .43  | 1.35 |      |
| Bedford            | Juniata        |              |     |     |     |     |     |     |   |     | T.  | T.  | .11 | T.  | .09 | .01 | .02 |     | .07 |     | T.  |     |     |     |     |    |     |     | T.  | .20 | T.  | T.    | .38  | 0.92 |      |
| Bellefonte***      | W. Br. Susq.   | .03          | T.  |     |     |     | T.  | T.  |   |     | T.  | T.  |     | T.  | .09 |     |     |     |     |     |     | .02 | .01 | .02 |     |    |     | T.  | T.  | .20 | T.  | .02   | .31  | 0.71 |      |
| Bethlehem          | Lehigh         |              | T.  |     |     |     |     |     |   |     |     |     |     |     |     | .05 | .01 |     |     |     |     |     |     |     |     |    |     |     |     | .52 | T.  |       | .45  | 1.95 |      |
| Bloersville\|\| | Lower Susq.    | T.           | T.  |     |     | .05 |     |     |   |     | T.  | T.  |     | T.  | .05 | .02 | T.  |     | T.  | T.  |     | .02 |     |     |     |    |     |     |     | .38 | .18 |       | .48  | 1.17 |      |
| Buffalo Mills      | Juniata        |              |     |     |     |     | .10 |     |   |     |     | .03 |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     | .37 |     |       | .28  | 0.79 |      |
| Carlisle           | Lower Susq.    | T.           | T.  |     |     |     |     | T.  |   |     |     |     | .04 | T.  | T.  | .04 |     |     | T.  | T.  |     | .06 |     |     |     |    |     |     |     |     |     |       |      |      |      |
| Catawissa\|\| | N. Br. Susq.   |              |     |     |     |     |     |     |   |     |     | T.  | T.  | T.  | .07 |     |     |     | .02 |     |     |     |     |     |     |    |     |     |     | .32 |     |       |      | 0.41 |      |
| Center Hall        | Susquehanna    |              |     |     |     |     |     |     |   |     |     |     | .10 |     | .02 | .10 |     |     |     |     |     |     |     |     |     |    |     |     |     | .40 | .06 |       | .12  | 0.80 |      |
| Chambersburg       | Potomac        |              |     |     |     |     | .01 |     |   |     | .03 |     |     |     |     | .03 |     |     |     |     |     |     |     |     |     |    |     |     |     | .48 |     |       | .26  | 0.81 |      |
| Clearfield         | W. Br. Susq.   | .30          | .70 |     |     | T.  |     | T.  |   |     | .04 | T.  | .30 | .04 | .16 | T.  |     |     |     | .20 | .50 |     |     |     | T.  |    | T.  | T.  |     | .38 | .30 | .17   | .48  | 3.57 |      |
| Coatesville        | Lower Del.     |              |     |     |     |     |     |     |   |     |     |     |     |     | .08 |     |     | .01 |     | .02 | .03 |     |     |     |     |    |     |     |     | .15 | .23 |       | .22  | 0.74 |      |
| Colebrook          | Lower Susq.    | T.           | T.  |     |     |     | T.  | T.  |   |     | T.  | T.  |     | .05 | .05 | .01 | T.  |     | T.  | .01 |     |     |     |     |     |    |     |     |     | .25 |     | .01   | .44  | 0.82 |      |
| Conshohocken       | Schuylkill     |              |     |     |     |     |     |     |   |     | T.  | T.  |     |     |     | .01 | T.  |     |     | .23 | .01 |     |     |     |     |    |     |     |     | .45 | .01 |       | .35  | 1.06 |      |
| Cresson\|\| | Juniata        | .04          |     |     |     |     | .02 |     |   |     | .10 |     | .33 | .10 | .20 |     |     |     |     |     |     |     | .12 |     |     |    |     |     |     | .35 |     |       | .49  | 1.75 |      |
| Doylesstown        | Lower Del.     | T.           |     |     |     |     | T.  |     |   |     | T.  |     |     |     | .04 | .02 | .01 | T.  |     | .10 | .01 |     |     |     |     |    |     |     |     | .32 | T.  | .01   | .21  | 0.72 |      |
| Driftwood\|\|\| | W. Br. Susq.   |              |     |     |     |     |     |     |   |     |     | .15 | .27 | .02 | .26 |     |     |     | .18 |     |     | .41 | .24 | .02 |     |    |     | T.  | T.  | .25 |     |       | .64  | 2.62 |      |
| Emporium           | W. Br. Susq.   | .08          | .02 | .08 |     |     | T.  | T.  |   |     |     | T.  |     | .27 | .02 | .26 |     |     |     |     |     |     |     |     |     |    |     |     |     | .21 |     |       | .04  | .27  | 0.60 |
| Ephrata            | Lower Susq.    |              | T.  |     |     |     | T.  |     |   |     | T.  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |       |      |      |      |
| Forest City        | N. Br. Susq.   |              |     |     |     |     | .35 | .04 |   |     |     |     | T.  | .21 |     | .17 | .08 | .03 |     |     |     | .02 |     |     |     |    |     |     |     | .04 | .42 | T.    | .28  | 1.50 |      |
| Freeland\|\|\| | Lehigh         | .14          | .03 | .02 |     |     |     | T.  |   |     |     |     | .07 | .05 | .02 | .08 | .01 | .04 |     |     | .02 |     |     |     |     |    |     |     |     | .04 | .32 | .02   | .28  | 1.16 |      |
| Gaileton           | W. Br. Susq.   | .08          | .07 |     | .05 | .03 |     |     |   |     |     | .05 | .11 | .36 | .10 |     | .27 |     | .20 |     |     | .02 | .10 |     |     |    |     | .07 |     | .25 | .06 |       | .31  | 2.48 |      |
| George School      | Lower Del.     |              |     |     |     |     |     |     |   |     |     |     |     |     | .04 | T.  |     | T.  |     | .09 | .04 |     |     |     |     | T. |     |     |     | .36 | .03 | .03   | .33  | 0.92 |      |
| Gettysburg         | Potomac        |              |     |     |     |     | T.  | T.  |   |     |     | T.  | .02 |     |     | .01 | .01 |     | T.  | T.  | .04 |     |     |     |     |    |     |     |     | .45 | T.  | .03   | .34  | 0.90 |      |
| Girardville\|\|\| | Lower Susq.    | .05          |     |     |     |     |     |     |   |     |     |     |     |     | T.  |     | .06 |     |     | .02 |     |     |     |     |     |    |     |     |     | .40 |     |       | .36  | 0.89 |      |
| Gordon             | Lower Susq.    | .08          |     |     |     |     |     |     |   |     |     |     |     |     |     |     |     |     |     | .05 |     |     | T.  |     |     |    |     |     |     | .18 |     |       | .53  | 0.84 |      |
| Gouldsboro\|\| | Lehigh         |              | .05 |     |     |     | .08 |     |   |     |     |     | .20 |     |     | .15 | .03 | .03 |     | .21 |     | .05 |     |     | .08 |    |     |     |     | .24 |     | .03   | .31  | 1.83 |      |
| Graterford         | Schuylkill     |              | .04 |     |     |     |     |     |   |     |     |     |     |     |     | *   | T.  | .21 |     |     |     |     |     |     |     |    |     |     |     | .41 |     |       | .60  | 0.83 |      |
| Hamburg            | Schuylkill     | *            | *   |     |     |     |     |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     | .19 |     |       | .29  | 1.22 |      |
| Hanover            | Lower Susq.    |              |     |     |     |     |     |     |   |     |     | .03 | T.  |     | .03 | T.  |     | T.  | T.  |     | .02 | .01 | T.  |     |     |    |     |     |     | .28 |     |       | .36  | 0.56 |      |
| Harrisburg***      | Lower Susq.    | T.           | T.  |     |     | .02 | T.  |     |   |     | T.  | T.  | T.  | .03 | .03 |     | T.  | T.  | T.  |     | .01 | T.  |     |     |     |    |     |     |     |     |     |       |      | .73  |      |
| Hawley\|\|\| | Upper Del.     |              | .05 |     | T.  |     | T.  | T.  |   |     |     |     | T.  | .03 |     | .10 | .18 | T.  | T.  | T.  | .01 | .01 |     |     |     |    |     |     |     |     |     | .17   | .01  | .21  | 0.78 |
| Hollisterville     | Upper Del.     | .03          | .02 | T.  |     |     | .01 |     |   |     |     | .13 | .11 |     | .05 | .11 | T.  | T.  |     |     | .01 | .01 |     |     |     |    |     |     |     |     | .03 | .20   | .12  | .25  | 0.95 |
| Holtwood\|\| | Lower Susq.    |              |     |     |     |     |     |     |   |     |     | .04 | .01 |     | .04 | T.  |     |     |     | T.  |     | .01 |     |     |     |    |     |     |     | .42 | T.  |       | .45  | 0.44 |      |
| Huntingdon         | Juniata        | T.           |     |     |     |     | .03 | .03 |   |     | .03 |     |     | .40 | .05 |     | .12 |     | .05 |     |     |     |     |     |     |    |     |     |     |     | .39 |       |      | .40  | 1.58 |
| Hyndman            | Potomac        | .01          |     |     |     |     | .01 |     |   |     |     | T.  | .02 | .07 | .07 | T.  |     |     | .05 |     |     |     | .25 |     |     |    |     |     |     |     | .30 | .04   |      | .55  | 0.95 |
| Kylertown          | W. B. Susq.    | .03          |     |     |     |     |     | T.  |   |     |     |     | .25 | .03 | .15 |     |     |     | .30 |     |     |     | .25 |     |     |    |     |     |     |     |     |       |      | .19  | 1.90 |
| Lakeville\|\|\| | Upper Del.     | .04          | .03 | .11 |     |     |     |     |   |     |     | .12 |     |     | .13 | T.  |     | .11 | .06 | .01 |     |     |     |     |     |    |     |     |     | .03 | .01 | .20   | .08  | .03  | 0.93 |
| Lancaster          | Lower Susq.    |              |     |     |     |     |     |     |   |     |     |     |     |     | .06 | .03 |     |     |     |     |     |     |     |     |     |    |     |     |     |     | .25 |       | .02  | .22  | 0.58 |
| Lansford\|\| | Lehigh         |              | .07 |     |     |     |     |     |   |     |     | T.  |     |     |     | .09 |     |     |     | T.  | .02 | T.  |     |     |     |    |     |     |     |     | .10 | .16   |      | .17  | 0.52 |
| Lawrenceville      | N. Br. Susq.   | T.           | T.  | T.  | .05 |     | T.  |     |   |     |     | T.  |     |     | .20 |     |     |     |     |     |     | T.  |     |     |     |    |     |     |     |     | .10 |       |      | .15  | 0.50 |
| Lebanon\|\|\| | Lower Susq.    |              | .01 |     |     |     |     |     |   |     |     |     |     | .08 | .01 | T.  |     |     |     | T.  |     |     |     |     |     |    |     |     |     | .13 | .20 | .19   | .28  | 0.93 |      |
| Lewisburg          | W. Br. Susq.   | .08          | T.  |     |     |     |     |     |   |     |     | .03 |     | T.  | .01 | .06 |     | .01 |     | .03 |     |     |     |     |     |    |     |     |     | .38 | .02 |       |      | 0.62 |      |
| Lloyd              | do             | .01          |     |     |     |     |     | T   |   |     |     | .02 | .12 |     | .14 |     | .02 | .13 |     |     |     |     |     | .07 |     |    |     |     |     | .12 |     |       | .36  | 0.92 |      |
| Lock Haven         | do             | .06          | .03 |     |     |     | T.  |     |   |     |     | .02 | .01 |     | .06 | .11 |     | .08 |     |     |     |     |     |     |     |    |     |     |     | .27 | .04 |       | .39  | 1.14 |      |
| Lykens             | Susquehanna    | .03          | .04 | .04 |     |     | T.  |     |   |     |     |     | *   |     | .02 | .02 |     | .02 |     | .01 |     |     |     |     |     |    |     |     |     | .20 | T.  |       | .45  | 0.83 |      |
| Marcus Hook        | Lower Del.     |              |     |     |     |     |     |     |   |     |     |     |     | .11 |     | .10 |     |     | .12 |     |     |     |     |     |     |    |     |     |     | .34 |     |       | .34  | 0.90 |      |
| Mauch Chunk        | Lehigh         |              |     |     |     |     |     |     |   |     |     |     |     | .11 |     |     | T.  |     | .02 | .01 |     |     |     |     |     |    |     |     |     | .33 |     |       |      | 0.47 |      |
| Midlinton          | Juniata        |              |     |     |     |     |     |     |   |     |     |     | .06 |     | .06 | .10 |     | .02 |     | .02 |     | .02 |     |     |     |    |     |     |     | .22 | .01 |       | .28  | 0.77 |      |
| Montrose           | N. Br. Susq.   |              |     |     |     | .05 |     |     |   |     |     | .20 |     | .05 |     | .05 |     | .05 |     |     |     | .35 |     |     |     |    |     |     |     |     | .20 |       | .60  | 1.50 |      |
| Morris Run         | N. Br. Susq.   | .11          |     |     |     |     | T.  | T.  |   |     |     | T.  | .18 |     | .11 | .05 | .08 |     | .02 | .02 |     |     |     |     |     |    |     |     |     | .25 | .02 |       | .29  | 1.13 |      |
| Mount Pocono       | Upper Del.     |              |     |     |     |     |     |     |   |     |     | .11 |     | .22 | T.  | T.  | .30 | .16 | .05 | T.  | .33 | .06 |     |     |     |    |     |     |     | .25 | T.  | .03   | .30  | 1.59 |      |
| Muncy Valley       | W. Br. Susq.   |              | .06 |     |     |     | T.  |     |   |     |     |     | .22 | T.  | T.  |     | .21 |     |     |     |     |     |     |     |     |    |     |     |     | .28 | .02 |       | .51  | 1.30 |      |
| Neshaminy\|\|\| | Lower Del.     |              |     |     |     |     |     |     |   |     |     | .02 |     | .05 | .05 | T.  |     |     | .18 |     |     | .01 |     |     |     |    |     |     |     | .55 |     | .18   | .14  | 1.16 |      |
| New Park           | Lower Susq.    |              |     |     |     |     |     |     |   |     |     |     |     | .03 |     |     |     | .02 |     |     |     |     |     |     |     |    |     |     |     | .21 |     |       | .25  | 0.53 |      |
| Newport\|\|\| | Juniata        |              |     |     |     |     | .03 |     |   |     |     |     |     |     | T.  |     | T.  | .09 | .02 |     | T.  |     | .02 |     |     |    |     |     |     |     | T.  | .26   |      | .28  | 0.70 |
| Palmerston\|\| | Lehigh         | .02          |     |     |     |     |     |     |   |     |     |     | .05 |     | .07 |     | .17 |     |     | .01 |     | .02 | .03 |     |     |    | .02 |     |     | .21 |     |       | .50  | 0.81 |      |
| Paupack\|\|\| | Upper Del.     |              |     |     |     |     | T.  |     |   |     |     |     |     | .05 |     | .06 | .17 |     |     |     | .02 |     |     |     |     |    |     |     |     |     | .20 | .02   | .20  | 0.82 |      |
| Philadelphia***    | Lower Del.     | T.           |     |     |     |     |     |     |   |     |     |     |     | .01 |     | .01 | T.  | T.  | T.  |     | .22 | .01 |     |     |     |    | T.  |     |     |     | .40 | .01   |      | .34  | 1.00 |
| Philadelphia-Gtn   | do             | T.           |     |     |     |     |     |     |   |     |     |     |     |     | T.  | .02 | T.  | T.  | T.  |     | .08 | .02 |     |     |     |    |     |     |     |     | .39 | .03   | T.   | .33  | 0.85 |
| Phila. Navy Yard   | do             |              |     |     |     |     |     |     |   |     |     |     |     |     | T.  | T.  | T.  | T.  | T.  |     | .16 | .05 |     |     |     |    | T.  |     |     |     | .01 | .37   | .01  | .20  | 0.82 |
| Phila. P't Breeze  | Lower Del.     | T.           |     |     |     |     |     |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |       |      |      |      |

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## Daily Precipitation for November, 1931—Continued from page 53

| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      | Total |  |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-------|--|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12   | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30   | 31   |       |  |
| Ohio Drainage.  |                |              |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |       |  |
| Beaver Dam      | Ohio           | .02          |     |     |     |     | .03 |     |     |     |     | .01 | T    | .51 |     | .05 |     | .25 | .05 | .27 |     | .07 |     |     |     | .22 |     | .05 | .10 | .03 | .48  |      | 2.14  |  |
| Beaver Falls    | Beaver         |              |     |     |     |     | .03 | .01 | T   |     |     | T   | T    | .13 |     | T   | T   | .21 | T   | .34 |     | .21 |     |     |     | .19 |     | .08 | .15 | .01 | .46  |      | 1.82  |  |
| Bradford        | Allegheny      | .08          | .15 | .15 | .05 | .08 |     |     |     |     |     |     | .53  | .70 | .02 | .47 |     | .43 |     | .10 | .05 |     |     |     | .15 | .04 | .28 |     | .25 |     | .28  |      | 3.56  |  |
| Brookville      | do             | .09          | .09 |     |     |     | .08 |     |     |     |     |     |      | .47 |     | .05 | .10 | .05 |     | .10 | .05 |     | .15 | .40 |     | .22 |     | .23 | .09 |     | .35  |      | 2.47  |  |
| Butler          | Ohio           |              |     |     |     |     | .15 | T   |     |     |     |     | .22  |     | .05 |     |     | .29 |     | .08 | .20 |     |     | .28 |     | .28 |     | .25 |     | .53 |      | 2.08 |       |  |
| Chambersville   | Allegheny      | .03          |     |     |     |     | .16 | .02 |     |     |     | .05 | .08  | .17 | .01 | .13 | .02 | .20 |     |     | .28 | .25 |     | .13 |     | .37 | .02 | .02 | .62 |     | .25  |      | 2.56  |  |
| Clairton        | Monongahela    |              |     |     |     | T   | T   | .01 |     |     |     | .10 | .05  | .24 | T   | .08 |     | .01 | .11 |     |     | .42 | .06 |     | T   | .01 | .31 | .11 | .04 | .38 |      | 1.93 |       |  |
| Claysville      | Ohio           | .04          |     |     |     | T   |     |     | .14 |     |     | .19 | .13  | .52 | .04 | .05 |     |     | .09 |     | .25 | .09 | .15 |     |     | .27 |     | .33 |     | .42 |      | 2.71 |       |  |
| Clymer          | Conemaugh      |              |     |     |     |     | .20 |     |     |     |     |     |      | .15 |     | .20 |     | .20 |     |     | .30 |     |     |     |     |     | .30 |     | .45 | .20 |      | 2.00 |       |  |
| Confuence       | Youghiogheny   | .13          |     |     |     |     |     |     | .15 |     |     | T   | .08  | .18 | .22 | .13 |     | .06 |     |     |     |     |     |     | .16 | T   | .15 | .27 |     | .34 |      | 1.87 |       |  |
| Corry           | Allegheny      | .37          | .05 |     | .14 | .03 | .04 | .10 |     |     |     |     | .35  | .77 | .02 | .60 |     | .84 |     |     | .62 |     |     |     | .05 | .02 | .22 | .05 |     | .15 |      | 4.42 |       |  |
| Coudersport     | Allegheny      | .04          | .08 |     |     |     |     |     |     |     |     | .07 | .41  |     | .18 |     | .18 |     |     |     | .61 | .10 |     | .10 |     | .03 | .19 |     | .20 | .07 |      | 2.26 |       |  |
| Derry           | Conemaugh      |              |     |     |     | T   | .04 | T   |     |     |     | .12 | .03  | .50 | .04 | .08 |     | .20 |     |     | .13 | .13 |     | .12 |     | .40 | .03 | .05 | .60 |     |      | 2.47 |       |  |
| Donora          | Monongahela    | T            |     |     |     |     |     | T   |     |     |     | .09 |      | .26 |     | T   | .03 |     | .08 |     |     | .41 |     | .02 |     | .30 | .03 |     | .35 |     |      | 1.57 |       |  |
| Ebensburg       | Conemaugh      | .05          | .02 |     |     |     | T   | T   |     |     |     | .10 |      | .49 |     | .10 | .11 |     | .18 |     |     | T   | .23 |     | T   |     | .12 | T   |     | .64 |      | 2.04 |       |  |
| Elk Lick        | Youghiogheny   | .05          |     |     |     |     | .08 |     |     |     |     |     |      | .83 | .10 |     |     |     |     |     |     |     |     |     |     |     | .30 |     | .10 |     | 1.50 |      | 2.86  |  |
| Falls Creek     | Allegheny      | .14          |     |     |     | .09 |     | T   |     |     |     |     | .08  | .20 |     | .10 |     | .30 |     |     | .78 |     |     |     | .16 |     | .33 |     |     | .60 |      | 2.78 |       |  |
| Franklin        | Allegheny      | .18          | .30 |     |     |     | .27 | T   |     |     |     |     | .06  | .35 |     | .04 |     | .51 | .03 | .23 |     | .10 |     | .21 |     | .11 | .17 |     | .20 |     |      | 2.76 |       |  |
| Freeport        | do             | .05          |     |     |     |     | .06 | .01 | T   |     |     | .01 | T    | .23 |     | .01 | .01 | .20 |     | .23 |     | .23 |     | .12 |     | .14 | .20 | .02 | .51 |     |      | 2.03 |       |  |
| Greensboro      | Monongahela    | .10          | .01 |     |     |     |     |     | .20 |     |     | .03 | .02  | .25 | .24 | .16 | .02 | .10 | T   |     | .06 |     | .05 |     | .09 | .18 | T   | .90 |     |     |      | 2.43 |       |  |
| Greensburg      | Youghiogheny   | T            |     |     |     | .01 | T   | T   |     |     |     | .07 | .04  | .34 | .01 | .07 |     | .01 | .14 |     |     | .06 | .30 | T   |     | .44 |     |     | .45 |     |      | 1.94 |       |  |
| Greenville      | Beaver         |              | T   |     |     |     | .37 |     |     |     |     |     | .18  | .65 | T   | .02 | T   | .55 |     | .11 | .15 |     | .06 |     | .28 |     | .25 |     | .22 |     |      | 2.57 |       |  |
| Grove City      | do             |              |     |     |     |     | .32 |     |     |     |     |     | .03  | .22 | .02 | .02 | T   | .02 | .41 |     | .34 | .09 | T   |     | .18 |     | .18 |     | .01 | .21 |      | 2.05 |       |  |
| Herr's Isl. Dam | Ohio           | .01          | .01 |     |     |     | .03 |     |     |     |     | .04 | .01  | .50 |     | .02 | .10 |     | .12 |     | .14 |     | .18 |     | .04 |     | .15 | .23 | .02 | .35 |      | 1.95 |       |  |
| Ingram          | Ohio           | T            |     |     |     | T   | .02 |     |     |     |     | .05 | .14  | .59 | .04 | .09 | .02 | T   | .16 |     | .10 | .12 | .07 |     | .06 |     | .38 |     | T   | .37 |      | 2.21 |       |  |
| Irwin           | Youghiogheny   | T            |     |     |     | T   | T   |     |     |     |     | .12 | .06  | .10 | .05 | .09 |     | .11 |     | .15 | .28 |     |     |     | .33 |     | .33 |     |     | .46 |      | 1.75 |       |  |
| Johnstown       | Conemaugh      | .08          | T   |     |     | .08 | .12 | T   |     |     |     | .08 | .03  | .50 | .05 | .09 | .01 | .16 |     | .16 |     | .16 | .01 | .09 |     | .04 |     | .26 |     | .66 |      | 2.42 |       |  |
| Kregar          | Youghiogheny   | T            |     |     |     |     | T   | .02 |     |     | .07 | .04 | .16  | .15 | .02 | .05 |     | .13 | .03 |     | .22 |     | .05 |     | .09 |     | .20 | T   | .54 | .23 |      | 2.00 |       |  |
| Lake Lynn       | Monongahela    | .18          | .05 |     |     |     |     |     | .18 |     |     | .04 | .16  | .15 | .26 | .15 |     | .15 | .05 |     | .23 |     | .18 | T   | .01 | .30 | .30 | .65 |     |     |      | 2.91 |       |  |
| Linesville      | Beaver         | .40          | .09 | .06 |     |     | .60 | .08 |     |     |     | .03 | .05  | .75 | .05 | .14 | .01 | .57 | .02 | .10 |     | .27 | .01 | .47 |     | .11 | .15 |     | .10 |     | 4.06 |      |       |  |
| Lock No. 2      | Ohio           | .01          |     |     |     | .01 | T   |     |     |     |     | .07 | .07  | .53 |     | .08 | T   | .20 | T   | .14 |     | .08 |     | .13 |     | .08 | .14 | T   | .42 |     |      | 1.89 |       |  |
| Lock No. 4      | Monongahela    | .02          |     |     |     |     |     |     | .02 |     |     | .07 | .04  | .28 | .05 | .02 | .06 |     | .10 | .02 |     | .43 |     | .04 |     | .17 | .19 |     | .36 |     |      | 1.87 |       |  |
| Lycippus        | Conemaugh      |              |     |     |     |     |     |     |     |     |     | .05 | T    | .25 | .05 | .05 |     | .22 |     |     | .55 |     |     |     |     | .45 | T   |     | .62 |     |      | 2.24 |       |  |
| McKeesport      | Monongahela    |              |     |     |     |     |     |     |     |     |     |     |      | .23 | .54 | .05 | .12 |     | .62 |     | .37 | .40 |     |     |     | .48 |     |     | .10 |     | 4.23 |      |       |  |
| Meadville       | Allegheny      | .62          | .09 | .05 |     |     | .28 |     |     |     |     | .06 | .23  | .54 | .05 | .12 |     | .62 |     |     | .37 | .40 |     |     |     | .48 |     |     | .30 |     | 0.62 |      |       |  |
| Mount Lebanon   | Ohio           | .02          |     |     |     | .02 | T   |     | .02 |     |     | T   | T    | .01 | T   | .04 | T   |     |     | .03 | T   |     |     |     | T   |     | .12 |     | .10 | .20 | .02  | .45  | 2.00  |  |
| Natrona         | Allegheny      | .05          |     |     |     |     | .04 | T   | .02 |     |     | .03 | .02  | .30 |     | .02 | .02 | .20 |     | .18 |     | .23 |     | .12 |     | .10 | .20 | .02 | .45 |     |      | 2.03 |       |  |
| New Castle      | Beaver         | .06          |     | .01 |     |     | .18 |     |     | .02 |     |     | .12  | .40 | .01 | .05 |     | .02 | .42 | .60 |     | .11 |     | .09 |     | .15 | .04 | .01 | .24 |     |      | 2.51 |       |  |
| Newell          | Monongahela    |              |     |     |     |     |     |     |     |     |     | .11 | .48  | .03 | .05 |     | .01 | .11 |     |     | .06 | .42 |     | .22 | .10 |     | .22 | .10 | .42 |     |      | 2.03 |       |  |
| Parkers Landing | Allegheny      | .08          | T   | T   |     |     | .42 | T   |     |     |     | .02 | T    | .36 |     | .02 | T   |     | .32 |     | .08 |     | .12 |     | .13 |     | .05 | .22 | T   | .62 |      | 2.44 |       |  |
| Pennline        | Beaver         | .45          | .11 | .08 |     |     | .53 | .07 |     |     |     | .03 | .04  | .66 |     | .08 | .06 | T   | .40 |     | .02 | .01 | .19 | T   | .26 |     | .15 | .06 |     | .09 |      | 3.29 |       |  |
| Pittsburgh      | Ohio           | .01          |     |     |     | T   | .01 | T   |     |     |     | .04 | .08  | .52 | .01 | .04 |     | T   | .10 | .10 | T   | .14 |     | T   | .05 |     | .37 |     | .04 | .30 |      | 1.80 |       |  |
| Punxsutawney    | Allegheny      |              | .42 |     |     |     | T   | T   |     |     |     | T   | .06  | .06 |     |     |     | .46 |     |     | .45 |     |     |     |     | .04 | .03 |     | .80 |     |      | 2.26 |       |  |
| Ridgway         | do             | .10          | .13 | .02 | .02 |     |     | .03 |     |     |     | .12 | .48  |     | .07 | .06 |     | .28 | .02 | .35 |     | .19 |     | .08 | .03 | .07 | .38 |     |     |     |      | 2.43 |       |  |
| Saltsburg       | Conemaugh      | .02          |     |     |     | .05 |     | T   |     |     |     | T   | T    | .38 | .04 | .01 | .10 |     | .15 | .01 |     | .44 |     | .05 |     | .10 | .23 | .02 | .36 |     |      | 1.96 |       |  |
| Sharon          | Beaver         |              | .03 | .04 |     | .15 | T   |     |     |     |     | T   | T    | .31 |     |     |     | .09 |     | .16 |     |     |     | .09 |     | .04 |     | .24 |     |     |      | 1.06 |       |  |
| Somersett       | Youghiogheny   | .05          |     |     |     | .06 |     | .03 |     |     |     | .07 | T    | .28 | T   | .07 | T   |     | .09 |     |     |     |     | .02 | .39 |     | .24 |     | .75 |     |      | 1.81 |       |  |
| Springdale      | Allegheny      |              |     |     |     |     | T   | .01 |     |     |     | .04 | .01  | .40 |     | .03 | .11 |     | .17 |     | .01 |     | .33 | .01 | .09 |     | .16 | .20 | .02 | .37 |      | 1.96 |       |  |
| Uniontown       | Monongahela    | .05          |     |     |     | .06 | .02 |     | .10 |     |     | .07 | .06  | .41 | .12 | .04 | T   |     | .13 |     | .05 | .06 |     | .14 |     | .36 |     |     | .91 |     |      | 2.58 |       |  |
| Unity Reservoir | Youghiogheny   | T            |     |     |     | T   | T   |     | .02 |     |     | .10 | .07  | .48 | .03 | .08 |     | .16 |     | .10 | .23 |     | .06 |     | .28 |     | .05 | .56 |     |     |      | 2.22 |       |  |
| Vandergrift     | Conemaugh      |              |     |     |     |     |     |     |     |     |     | .14 | .14  | .18 | .15 |     | .17 |     | .08 | .46 | .03 |     | .52 |     | .43 |     | .45 |     |     |     |      | 2.32 |       |  |
| Warren          | Allegheny      | .06          | .08 | .04 | .04 | .04 | .06 | .06 |     |     |     | .05 | 1.00 | .60 | .08 | .10 | .04 | .30 |     | .10 | .03 |     | .04 | .03 | .43 |     | .16 |     | .33 |     |      | 3.34 |       |  |
| Waynesburg      | Monongahela    | .12          |     |     |     |     |     | .20 |     |     |     | .10 |      | .45 | .10 | .06 |     | .10 |     | .32 | .32 |     | .03 |     | .40 |     | .56 |     |     |     |      | 2.73 |       |  |
| Westford        | Beaver         | .26          |     |     |     | .02 |     |     |     |     |     |     | .95  |     | .15 |     | .15 |     | .10 |     | .30 | .02 |     | .03 |     | .17 | .09 |     | .15 |     |      | 2.34 |       |  |
| West Newton     | Youghiogheny   | .04          |     |     |     |     |     |     |     |     |     | .06 | T    | .15 | T   |     | .04 |     | .10 | T   |     | .45 |     |     |     | .15 | .14 |     | .33 |     |      | 1.46 |       |  |
| Lake Drainage.  |                |              |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |       |  |
| Erie            | Lake Erie      | .06          | .05 | T   | T   | .02 | T   | .03 |     |     | .02 | .01 | 1.31 |     | .37 | .13 | T   |     | .14 |     | .07 | .25 |     |     | .19 | T   | T   | .11 |     | T   | .03  | 2.79 |       |  |
| Genesee         | do             | .08          | .09 | T   | .14 | .03 | .10 | T   |     |     |     |     | .16  | .35 |     | T   |     | .12 |     | .10 | .21 |     |     |     | .07 | T   | .60 | T   | T   | .30 |      | 2.35 |       |  |

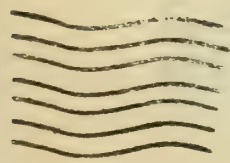
Except as otherwise indicated, observations are generally made late in the afternoon, near sunset



## Daily Temperatures for November, 1931

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30   | 31 | Mean |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|------|
| Allentown.....     | Maximum | 52 | 52 | 57 | 58 | 53 | 42 | 45 | 53 | 63 | 70 | 69 | 66 | 70 | 58 | 56 | 68 | 63 | 71 | 55 | 59 | 73 | 73 | 72 | 69 | 57 | 46 | 34 | 34 | 43   | 51 | 57.7 |
|                    | Minimum | 39 | 40 | 40 | 42 | 35 | 36 | 25 | 30 | 32 | 35 | 39 | 49 | 52 | 34 | 36 | 49 | 52 | 52 | 50 | 48 | 50 | 52 | 44 | 44 | 46 | 32 | 30 | 29 | 29   | 33 | 40.1 |
| Altoona.....       | Maximum | 48 | 48 | 62 | 57 | 55 | 48 | 43 | 58 | 70 | 73 | 56 | 74 | 67 | 53 | 60 | 71 | 61 | 67 | 57 | 67 | 71 | 69 | 69 | 67 | 62 | 34 | 33 | 33 | 44   | 54 | 57.7 |
|                    | Minimum | 40 | 37 | 32 | 39 | 32 | 31 | 27 | 34 | 37 | 43 | 50 | 48 | 56 | 31 | 41 | 47 | 45 | 49 | 42 | 48 | 57 | 52 | 45 | 41 | 42 | 28 | 26 | 29 | 32   | 40 | 40.0 |
| Bedford.....       | Maximum | 52 | 49 | 63 | 60 | 56 | 52 | 44 | 62 | 73 | 75 | 67 | 76 | 71 | 60 | 69 | 73 | 68 | 69 | 64 | 71 | 75 | 75 | 73 | 69 | 62 | 41 | 34 | 36 | 56   | 58 | 61.8 |
|                    | Minimum | 45 | 45 | 36 | 40 | 33 | 39 | 30 | 37 | 36 | 39 | 50 | 56 | 58 | 34 | 44 | 48 | 49 | 59 | 49 | 59 | 65 | 54 | 47 | 41 | 41 | 28 | 27 | 30 | 38   | 40 | 43.2 |
| Bellefonte.....    | Maximum | 50 | 47 | 59 | 56 | 55 | 43 | 46 | 57 | 70 | 73 | 56 | 74 | 67 | 50 | 58 | 72 | 59 | 68 | 56 | 65 | 71 | 72 | 73 | 68 | 64 | 37 | 33 | 34 | 42   | 53 | 57.6 |
|                    | Minimum | 40 | 31 | 33 | 36 | 30 | 28 | 23 | 27 | 28 | 31 | 49 | 47 | 35 | 24 | 40 | 38 | 36 | 38 | 36 | 54 | 58 | 48 | 43 | 38 | 31 | 30 | 28 | 29 | 33   | 38 | 36.0 |
| Brookville.....    | Maximum | 45 | 49 | 44 | 59 | 56 | 55 | 47 | 38 | 63 | 69 | 71 | 56 | 70 | 60 | 49 | 70 | 72 | 69 | 73 | 60 | 62 | 71 | 66 | 71 | 72 | 48 | 34 | 36 | 35   | 37 | 56.6 |
|                    | Minimum | 40 | 31 | 31 | 29 | 28 | 24 | 26 | 32 | 27 | 29 | 28 | 48 | 50 | 25 | 22 | 41 | 41 | 40 | 35 | 31 | 33 | 53 | 55 | 45 | 34 | 29 | 29 | 28 | 30   | 33 | 34.2 |
| Butler.....        | Maximum | 47 | 50 | 60 | 55 | 54 | 53 | 47 | 70 | 74 | 70 | 71 | 65 | 64 | 55 | 71 | 70 | 72 | 69 | 73 | 76 | 71 | 73 | 73 | 71 | 68 | 34 | 37 | 38 | 46   | 44 | 60.7 |
|                    | Minimum | 32 | 38 | 29 | 30 | 28 | 32 | 28 | 30 | 35 | 34 | 50 | 52 | 47 | 25 | 35 | 50 | 42 | 52 | 37 | 55 | 63 | 50 | 41 | 42 | 32 | 28 | 28 | 31 | 34   | 33 | 38.1 |
| Carlisle.....      | Maximum | 50 | 50 | 64 | 62 | 60 | 57 | 45 | 59 | 65 | 76 | 58 | 66 | 66 | 60 | 55 | 75 | 67 | 77 | 65 | 65 | 71 | 73 | 72 | 69 | 65 | 42 | 37 | 34 | 41   | 55 | 60.0 |
|                    | Minimum | 39 | 32 | 30 | 31 | 36 | 37 | 23 | 34 | 28 | 31 | 43 | 45 | 54 | 28 | 45 | 42 | 42 | 50 | 45 | 52 | 61 | 50 | 42 | 40 | 40 | 33 | 28 | 31 | 31   | 40 | 38.8 |
| Catawissa.....     | Maximum | 55 | 51 | 60 | 61 | 56 | 46 | 51 | 58 | 67 | 74 | 68 | 70 | 70 | 58 | 57 | 71 | 64 | 69 | 66 | 64 | 71 | 77 | 75 | 74 | 65 | 61 | 39 | 36 | 45   | 55 | 61.1 |
|                    | Minimum | 42 | 35 | 40 | 41 | 32 | 34 | 20 | 29 | 30 | 33 | 48 | 56 | 45 | 28 | 49 | 48 | 44 | 52 | 42 | 54 | 59 | 57 | 45 | 45 | 55 | 31 | 26 | 30 | 34   | 37 | 40.7 |
| Chambersburg.....  | Maximum | 59 | 56 | 63 | 66 | 63 | 56 | 50 | 59 | 68 | 73 | 60 | 76 | 72 | 58 | 61 | 74 | 57 | 77 | 63 | 77 | 72 | 79 | 74 | 72 | 64 | 46 | 40 | 33 | 46   | 61 | 62.5 |
|                    | Minimum | 39 | 35 | 31 | 40 | 35 | 35 | 27 | 33 | 31 | 35 | 46 | 47 | 52 | 30 | 41 | 41 | 46 | 48 | 48 | 53 | 60 | 48 | 41 | 41 | 40 | 31 | 30 | 30 | 32   | 40 | 39.5 |
| Chambersville..... | Maximum | 51 | 48 | 61 | 67 | 55 | 44 | 41 | 63 | 69 | 70 | 63 | 72 | 64 | 58 | 47 | 48 | 46 | 49 | 43 | 56 | 58 | 55 | 44 | 43 | 31 | 28 | 28 | 30 | 33   | 37 | 39.5 |
|                    | Minimum | 40 | 35 | 32 | 35 | 29 | 31 | 27 | 33 | 36 | 40 | 49 | 52 | 45 | 26 | 47 | 48 | 46 | 49 | 43 | 56 | 58 | 55 | 44 | 43 | 31 | 28 | 28 | 30 | 33   | 37 | 39.5 |
| Claysville.....    | Maximum | 50 | 50 | 60 | 58 | 56 | 49 | 47 | 67 | 72 | 71 | 64 | 71 | 64 | 60 | 69 | 71 | 75 | 69 | 74 | 76 | 70 | 71 | 72 | 71 | 66 | 35 | 39 | 37 | 44   | 53 | 61.0 |
|                    | Minimum | 41 | 33 | 32 | 31 | 27 | 30 | 19 | 33 | 43 | 47 | 50 | 53 | 52 | 32 | 48 | 50 | 49 | 59 | 41 | 59 | 61 | 54 | 50 | 48 | 32 | 18 | 27 | 31 | 35   | 40 | 40.8 |
| Clearfield.....    | Maximum | 52 | 60 | 68 | 68 | 62 | 67 | 64 | 68 | 71 | 61 | 71 | 64 | 64 | 68 | 76 | 66 | 73 | 69 | 71 | 71 | 78 | 63 | 79 | 65 | 39 | 42 | 34 | 43 | 48   | 53 | 62.8 |
|                    | Minimum | 40 | 45 | 30 | 31 | 36 | 31 | 27 | 28 | 34 | 32 | 48 | 42 | 48 | 34 | 48 | 45 | 53 | 50 | 44 | 48 | 58 | 32 | 42 | 32 | 28 | 26 | 26 | 32 | 38   | 41 | 38.4 |
| Coatesville.....   | Maximum | 55 | 54 | 58 | 60 | 57 | 49 | 47 | 54 | 64 | 73 | 60 | 68 | 70 | 62 | 60 | 70 | 58 | 71 | 63 | 63 | 74 | 72 | 73 | 69 | 59 | 42 | 36 | 33 | 45   | 50 | 59.3 |
|                    | Minimum | 36 | 38 | 38 | 41 | 33 | 33 | 23 | 30 | 32 | 33 | 47 | 51 | 53 | 36 | 45 | 52 | 50 | 54 | 51 | 55 | 51 | 46 | 45 | 38 | 31 | 31 | 30 | 30 | 44   | 40 | 40.9 |
| Corry.....         | Maximum | 44 | 50 | 56 | 52 | 52 | 40 | 36 | 63 | 68 | 70 | 59 | 58 | 52 | 45 | 66 | 71 | 69 | 65 | 68 | 66 | 70 | 64 | 73 | 68 | 54 | 31 | 34 | 40 | 40   | 36 | 55.4 |
|                    | Minimum | 34 | 36 | 34 | 32 | 34 | 29 | 26 | 30 | 44 | 49 | 35 | 39 | 40 | 27 | 42 | 49 | 52 | 43 | 36 | 50 | 50 | 52 | 52 | 49 | 28 | 27 | 15 | 29 | 33   | 37 | 37.4 |
| Emporium.....      | Maximum | 49 | 45 | 57 | 54 | 53 | 39 | 45 | 61 | 67 | 69 | 62 | 69 | 63 | 44 | 68 | 69 | 64 | 65 | 60 | 66 | 69 | 68 | 69 | 67 | 64 | 37 | 34 | 35 | 39   | 46 | 56.6 |
|                    | Minimum | 41 | 35 | 37 | 31 | 29 | 34 | 30 | 27 | 30 | 35 | 49 | 51 | 37 | 26 | 42 | 48 | 43 | 44 | 36 | 57 | 62 | 57 | 50 | 40 | 34 | 32 | 30 | 31 | 35   | 36 | 39.0 |
| Erie.....          | Maximum | 46 | 49 | 60 | 52 | 51 | 40 | 41 | 65 | 71 | 66 | 56 | 63 | 60 | 49 | 66 | 67 | 70 | 68 | 58 | 73 | 70 | 62 | 74 | 69 | 49 | 36 | 36 | 38 | 37   | 43 | 56.2 |
|                    | Minimum | 41 | 40 | 41 | 45 | 39 | 36 | 35 | 37 | 55 | 48 | 42 | 56 | 44 | 38 | 47 | 53 | 58 | 49 | 48 | 58 | 60 | 55 | 60 | 48 | 33 | 33 | 28 | 25 | 32   | 37 | 44.0 |
| Franklin.....      | Maximum | 49 | 41 | 60 | 55 | 55 | 39 | 40 | 64 | 72 | 68 | 60 | 66 | 59 | 59 | 67 | 74 | 72 | 62 | 67 | 73 | 68 | 66 | 72 | 70 | 42 | 38 | 35 | 39 | 39   | 43 | 57.1 |
|                    | Minimum | 40 | 32 | 31 | 34 | 33 | 31 | 29 | 28 | 29 | 34 | 33 | 37 | 44 | 25 | 29 | 45 | 46 | 44 | 36 | 59 | 55 | 44 | 42 | 43 | 29 | 28 | 27 | 29 | 34   | 34 | 35.9 |
| Freeland.....      | Maximum | 51 | 44 | 55 | 55 | 51 | 40 | 42 | 52 | 70 | 71 | 61 | 61 | 64 | 67 | 67 | 57 | 65 | 63 | 56 | 67 | 72 | 73 | 65 | 54 | 38 | 28 | 30 | 38 | 49   | 54 | 54.8 |
|                    | Minimum | 37 | 31 | 35 | 40 | 33 | 29 | 20 | 30 | 38 | 50 | 40 | 45 | 48 | 37 | 41 | 45 | 47 | 50 | 43 | 46 | 53 | 55 | 54 | 49 | 33 | 26 | 24 | 23 | 30   | 33 | 38.7 |
| Genesee.....       | Maximum | 47 | 43 | 56 | 52 | 50 | 40 | 48 | 59 | 68 | 70 | 62 | 66 | 59 | 50 | 65 | 68 | 65 | 57 | 63 | 66 | 70 | 71 | 65 | 60 | 40 | 33 | 42 | 35 | 45   | 45 | 55.8 |
|                    | Minimum | 30 | 28 | 35 | 32 | 33 | 28 | 15 | 27 | 34 | 35 | 38 | 47 | 43 | 27 | 40 | 47 | 35 | 49 | 44 | 52 | 60 | 54 | 45 | 42 | 32 | 28 | 25 | 25 | 30   | 30 | 36.3 |
| Gettysburg.....    | Maximum | 56 | 55 | 58 | 60 | 60 | 54 | 49 | 56 | 65 | 75 | 62 | 73 | 68 | 59 | 62 | 74 | 66 | 75 | 67 | 68 | 72 | 73 | 73 | 71 | 63 | 41 | 38 | 34 | 44   | 58 | 61.0 |
|                    | Minimum | 40 | 34 | 35 | 40 | 33 | 35 | 27 | 35 | 31 | 35 | 51 | 50 | 58 | 34 | 44 | 44 | 49 | 53 | 49 | 54 | 58 | 50 | 44 | 45 | 41 | 31 | 31 | 31 | 33   | 43 | 41.3 |
| Greensburg.....    | Maximum | 48 | 48 | 59 | 56 | 55 | 45 | 46 | 65 | 70 | 72 | 60 | 72 | 63 | 55 | 72 | 69 | 74 | 67 | 75 | 75 | 71 | 73 | 75 | 69 | 65 | 35 | 35 | 36 | 43   | 54 | 60.1 |
|                    | Minimum | 42 | 36 | 34 | 36 | 31 | 32 | 25 | 36 | 44 | 47 | 50 | 55 | 48 | 33 | 49 | 50 | 46 | 53 | 47 | 59 | 61 | 55 | 48 | 50 | 35 | 27 | 29 | 32 | 35   | 41 | 42.2 |
| Grove City.....    | Maximum | 45 | 44 | 50 | 56 | 55 | 43 | 42 | 64 | 70 | 68 | 62 | 67 | 63 | 51 | 65 | 65 | 70 | 68 | 66 | 72 | 66 | 65 | 72 | 68 | 65 | 32 | 33 | 34 | 35   | 41 | 56.6 |
|                    | Minimum | 35 | 36 | 34 | 33 | 28 | 30 | 30 | 32 | 38 | 42 | 46 | 52 | 44 | 26 | 46 | 43 | 49 | 52 | 35 | 55 | 55 | 45 | 49 | 30 | 28 | 27 | 29 | 31 | 32   | 32 | 38.8 |
| Hamburg.....       | Maximum | 49 | 49 | 57 | 54 | 53 | 39 | 45 | 61 | 67 | 69 | 62 | 69 | 63 | 44 | 68 | 69 | 64 | 65 | 60 | 66 | 69 | 68 | 69 | 67 | 64 | 37 | 34 | 35 | 39   | 46 | 56.6 |
|                    | Minimum | 41 | 35 | 37 | 31 | 29 | 34 | 30 | 27 | 30 | 35 | 49 | 51 | 37 | 26 | 42 | 48 | 43 | 44 | 36 | 57 | 62 | 57 | 50 | 40 | 34 | 32 | 30 | 31 | 35   | 36 | 39.0 |
| Harrisburg.....    | Maximum | 46 | 49 | 60 | 52 | 51 | 40 | 41 | 65 | 71 | 66 | 56 | 63 | 60 | 49 | 66 | 67 | 70 | 68 | 58 | 73 | 70 | 62 | 74 | 69 | 49 | 36 | 36 | 38 | 37   | 43 | 56.2 |
|                    | Minimum | 41 | 40 | 41 | 45 | 39 | 36 | 35 | 37 | 55 | 48 | 42 | 56 | 44 | 38 | 47 | 53 | 58 | 49 | 48 | 58 | 60 | 55 | 60 | 48 | 33 | 33 | 28 | 25 | 32   | 37 | 44.0 |
| Hawley.....        | Maximum | 49 | 41 | 60 | 55 | 55 | 39 | 40 | 64 | 72 | 68 | 60 | 66 | 59 | 59 | 67 | 74 | 72 | 62 | 67 | 73 | 68 | 66 | 72 | 70 | 42 | 38 | 35 | 39 | 39   | 43 | 57.1 |
|                    | Minimum | 40 | 32 | 31 | 34 | 33 | 31 | 29 | 28 | 29 | 34 | 33 | 37 | 44 | 25 | 29 | 45 | 46 | 44 | 36 | 59 | 55 | 44 | 42 | 43 | 29 | 28 | 27 | 29 | 34   | 34 | 35.9 |
| Huntingdon.....    | Maximum | 51 | 44 | 55 | 55 | 51 | 40 | 42 | 52 | 70 | 71 | 61 | 61 | 64 | 67 | 67 | 57 | 65 | 63 | 56 | 67 | 72 | 73 | 65 | 54 | 38 | 28 | 30 | 38 | 49</ |    |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVI.

DECEMBER, 1931.

No. 12.

## GENERAL SUMMARY.

This was an unusually mild December, its mean of 38.1° having been exceeded only three times in the forty-four years of the State Weather Service. At Philadelphia the mean temperature for the month was 44.2°, and has been exceeded only once in December during the last hundred years. Despite the mild conditions, no extremely high temperature was reached, and the State maximum of seventy degrees has been equaled or exceeded eighteen times in the last 44 years. The lowest temperature for the State was only one degree below zero, and it is seldom that we have so high a monthly minimum for December. On the other hand, a minimum of twenty-eight degrees below zero has been recorded in December in two of the last 44 years. In the southeastern counties the ground was free from frost the greater portion of the time, and considerable plowing was done. The precipitation, which was somewhat below the normal, was mostly in the form of rain. The snowfall averaged only slightly more than one inch for the State, and about one-third of the stations reported only a trace. The snow did not afford an effective covering for the winter grains at any time, but with no deep frost in the ground there was little need for such protection. Owing to the deficiency in rainfall, the streams were at moderate or low stages, and the water supply in the deep soil seemed to slowly diminish. There were many reports of wells and springs going dry that had never been known to fail. There were no long rainless periods during the month, and the top soil remained in fair to good condition, with the winter grains looking fine. The mild conditions were favorable for road work and for building construction, which made good progress. There was considerable cloudy weather, and the sunshine record was slightly below the December normal. There were no destructive storms during the month, and the highest wind velocity recorded in the State was 44 miles per hour at Philadelphia on the 14th. The Philadelphia records show a temperature excess for every month since October 1930.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 90 stations, was 38.1°, or 7.0° above the December normal. The highest monthly mean was 44.6°, at Marcus Hook,

and the lowest 30.6° at Mount Pocono. The highest recorded during the month was 70° at Hanover on the 12th, and the lowest was -1°, at Coudersport on the 8th. The greatest daily range in temperature was 45°, at Hawley on the 3d.

## PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from the observations of 145 well-distributed stations, was 2.85 inches, which is 0.31 inch less than the normal for the month. The greatest monthly amount was 5.49 inches at Elk Lick, and the least was 1.27 inches at Reading. The greatest amount recorded in any 24 consecutive hours was 1.60 inches at Emporium on the 13th.

Snowfall averaged 1.1 inches, compared with a December normal of 7.9 inches. The greatest total snowfall for the month was 7.5 inches at Genesee, where also occurred the greatest 24-hour fall of 5.0 inches on the 7th.

## COMPARATIVE DATA FOR DECEMBER

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 32.5        | 62      | -10    | 3.14          | 5.57     | 1.44  | 8           | 8             | 15     | 9                      |
| 1889.....                | 39.6        | 73      | 0      | 2.77          | 5.05     | 0.85  | 11          | 9             | 11     | 12                     |
| 1890.....                | 27.2        | 59      | -11    | 3.97          | 9.68     | 1.72  | 7           | 8             | 16     | 12                     |
| 1891.....                | 38.4        | 68      | -3     | 4.09          | 6.53     | 2.00  | 12          | 8             | 11     | 10                     |
| 1892.....                | 27.8        | 70      | -13    | 1.69          | 4.37     | 0.40  | 7           | 9             | 15     | 9                      |
| 1893.....                | 32.2        | 70      | -7     | 3.06          | 6.07     | 1.41  | 6           | 11            | 14     | 12                     |
| 1894.....                | 32.4        | 66      | -28    | 3.95          | 5.93     | 2.27  | 10          | 9             | 12     | 10                     |
| 1895.....                | 34.2        | 70      | -10    | 3.22          | 6.55     | 1.40  | 10          | 9             | 12     | 7                      |
| 1896.....                | 30.6        | 67      | -13    | 1.20          | 2.62     | 0.40  | 10          | 9             | 12     | 6                      |
| 1897.....                | 33.0        | 73      | -6     | 3.95          | 6.25     | 1.28  | 6           | 8             | 17     | 12                     |
| 1898.....                | 29.8        | 68      | -11    | 2.98          | 4.79     | 1.31  | 10          | 8             | 13     | 10                     |
| 1899.....                | 31.5        | 73      | -11    | 3.04          | 6.00     | 1.18  | 10          | 10            | 11     | 10                     |
| 1900.....                | 31.2        | 65      | -2     | 2.08          | 4.16     | 0.40  | 8           | 9             | 14     | 7                      |
| 1901.....                | 29.1        | 77      | -18    | 5.91          | 10.26    | 2.62  | 7           | 9             | 15     | 11                     |
| 1902.....                | 28.4        | 68      | -12    | 5.54          | 8.51     | 1.97  | 7           | 7             | 17     | 14                     |
| 1903.....                | 25.4        | 60      | -14    | 2.66          | 4.83     | 0.92  | 8           | 9             | 14     | 9                      |
| 1904.....                | 25.8        | 71      | -19    | 2.48          | 3.71     | 1.32  | 7           | 7             | 17     | 11                     |
| 1905.....                | 33.6        | 65      | -5     | 3.57          | 5.48     | 0.95  | 10          | 7             | 14     | 8                      |
| 1906.....                | 30.8        | 67      | -14    | 3.97          | 7.08     | 1.69  | 5           | 5             | 21     | 14                     |
| 1907.....                | 33.2        | 68      | -8     | 4.30          | 7.89     | 1.85  | 7           | 8             | 16     | 12                     |
| 1908.....                | 32.0        | 74      | -2     | 2.86          | 4.61     | 1.26  | 9           | 8             | 14     | 10                     |
| 1909.....                | 27.0        | 71      | -10    | 3.39          | 8.50     | 1.19  | 9           | 8             | 14     | 8                      |
| 1910.....                | 24.4        | 68      | -14    | 2.65          | 4.41     | 0.64  | 8           | 6             | 17     | 12                     |
| 1911.....                | 36.3        | 70      | 5      | 3.27          | 5.99     | 0.75  | 7           | 5             | 19     | 13                     |
| 1912.....                | 34.4        | 74      | -8     | 3.27          | 6.48     | 1.70  | 9           | 7             | 15     | 9                      |
| 1913.....                | 34.2        | 66      | -7     | 2.63          | 4.11     | 0.69  | 9           | 7             | 15     | 8                      |
| 1914.....                | 27.3        | 69      | -28    | 4.63          | 7.74     | 2.43  | 8           | 5             | 18     | 14                     |
| 1915.....                | 29.4        | 70      | -7     | 4.06          | 6.53     | 1.36  | 6           | 8             | 17     | 12                     |
| 1916.....                | 29.7        | 73      | -12    | 3.07          | 6.38     | 0.59  | 11          | 9             | 11     | 12                     |
| 1917.....                | 21.5        | 52      | -28    | 1.73          | 5.16     | 0.60  | 10          | 8             | 13     | 8                      |
| 1918.....                | 36.6        | 72      | -1     | 3.38          | 5.74     | 0.90  | 9           | 7             | 15     | 11                     |
| 1919.....                | 25.3        | 66      | -23    | 2.61          | 4.75     | 0.95  | 9           | 8             | 14     | 11                     |
| 1920.....                | 33.4        | 68      | -7     | 3.28          | 6.77     | 1.53  | 7           | 9             | 15     | 10                     |
| 1921.....                | 31.6        | 66      | -11    | 2.59          | 6.25     | 0.91  | 8           | 8             | 15     | 10                     |
| 1922.....                | 31.5        | 69      | -9     | 2.75          | 4.55     | 1.19  | 10          | 8             | 13     | 10                     |
| 1923.....                | 39.6        | 71      | 1      | 4.99          | 8.55     | 2.42  | 9           | 7             | 15     | 14                     |
| 1924.....                | 29.8        | 69      | -23    | 2.13          | 4.42     | 0.56  | 7           | 7             | 17     | 11                     |
| 1925.....                | 30.7        | 62      | -15    | 1.72          | 3.93     | 0.69  | 8           | 7             | 16     | 10                     |
| 1926.....                | 27.3        | 62      | -20    | 2.58          | 4.61     | 0.90  | 8           | 7             | 16     | 12                     |
| 1927.....                | 32.7        | 73      | -6     | 4.41          | 8.93     | 2.16  | 9           | 6             | 16     | 13                     |
| 1928.....                | 34.4        | 68      | -2     | 1.16          | 2.57     | 0.28  | 13          | 7             | 11     | 6                      |
| 1929.....                | 32.2        | 70      | -9     | 2.77          | 4.95     | 1.21  | 7           | 6             | 18     | 12                     |
| 1930.....                | 30.0        | 59      | -15    | 2.29          | 4.06     | 0.82  | 5           | 7             | 18     | 10                     |
| 1931.....                | 38.1        | 70      | -1     | 2.85          | 5.49     | 1.27  | 10          | 6             | 15     | 11                     |
| Normal and Extremes..... | 31.1        | 77      | -28    | 3.16          | 10.26    | 0.28  | 8           | 8             | 15     | 10                     |



## Climatological Data for December, 1931

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        | Precipitation, in inches |                      |       |                           | No. of days          |                           |                              | Prevailing direction of wind | Observers |       |                       |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|--------------------------|----------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|------------------------------|-----------|-------|-----------------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date                     | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more |                              |           | Clear | Pt. cloudy            | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |                              |           |       |                       |                             |
| Allentown          | Lehigh       | 254             | 19                      | 37.6                         |                           | 63      | 12   | 18     | 8†                       | 28                   | 2.11  | -1.32                     | 0.73                 | T.                        | 12                           | 17                           | 5         | 9     | sw.                   | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 44                      | 37.9                         | +8.2                      | 59      | 12   | 14     | 8                        | 32                   | 2.93  | +0.51                     | 0.86                 | 2.0                       | 10                           | 17                           | 5         | 9     | w.                    | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | ...                     | 39.2                         | +5.2                      | 66      | 12   | 16     | 8                        | 27                   | 1.65  | -1.66                     | 0.70                 | T.                        | 8                            | ...                          | ...       | ...   | ...                   | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 9                       | 38.2                         |                           | 68      | 12   | 15     | 8†                       | 39                   | 2.89  |                           | 0.94                 | 3.0                       | 9                            | 11                           | 8         | 12    | nw.                   | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | ...                     | 39.0                         |                           | 63      | 12   | 14     | 8†                       | 34                   | 2.41  |                           | 0.88                 | 2.0                       | 8                            | 11                           | 4         | 16    | nw.                   | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 23                      | 35.6                         | +5.1                      | 59      | 12   | 11     | 8                        | 33                   | 1.81  | -0.87                     | 0.57                 | 3.0                       | 11                           | 3                            | 10        | 18    | w.                    | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 46                      | 40.0                         | +6.7                      | 65      | 12   | 18     | 8                        | 23                   | 1.83  | -1.49                     | 0.54                 | 2.5                       | 12                           | 15                           | 0         | 16    | w.                    | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 65                      | 38.6                         | +7.1                      | 65      | 12   | 15     | 27                       | 33                   | 1.94  | -0.90                     | 0.62                 | 1.5                       | 11                           | 15                           | 1         | 15    | nw.                   | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 35                      | 38.6                         | +7.1                      | 62      | 24   | 13     | 27                       | 31                   | 2.28  | -0.51                     | 0.55                 | 1.0                       | 8                            | 10                           | 5         | 16    | .....                 | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 35                      | 36.9                         | +7.2                      | 61      | 23   | 13     | 26                       | 35                   | 1.66  | -0.87                     | 0.41                 | 1.0                       | 8                            | 14                           | 2         | 15    | .....                 | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 32                      | 40.5                         | +7.5                      | 69      | 12   | 18     | 27                       | 28                   | 2.32  | -0.31                     | 0.85                 | 1.2                       | 9                            | 6                            | 11        | 14    | sw.                   | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 24                      | 37.8                         | +8.2                      | 63      | 12   | 9      | 8                        | 36                   | 4.65  | +1.69                     | 1.30                 | 2.0                       | 13                           | 7                            | 17        | 7     | sw.                   | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 44                      | 39.6                         | +6.9                      | 64      | 12   | 20     | 8                        | 25                   | 2.30  | -1.61                     | 0.92                 | T.                        | 9                            | 9                            | 6         | 16    | nw.                   | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 20                      | 36.8                         | +5.2                      | 67      | 12   | 13     | 27                       | 29                   | 2.08  | -1.15                     | 0.79                 | 1.8                       | 8                            | 14                           | 0         | 17    | w.                    | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 44                      | 35.4                         | +6.3                      | 58      | 24   | 6      | 8                        | 30                   | 4.49  | +1.26                     | 1.60                 | 1.5                       | 12                           | 8                            | 6         | 17    | w.                    | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 39                      | 39.8                         | +7.6                      | 63      | 12   | 19     | 8†                       | 31                   | 1.89  | -1.33                     | 0.76                 | T.                        | 7                            | 12                           | 4         | 15    | s.                    | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 38                      | 33.6                         | +6.5                      | 57      | 12   | 9      | 8                        | 25                   | 2.66  | -0.80                     | 0.47                 | 3.0                       | 16                           | 11                           | 5         | 15    | nw.                   | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 25                      | 39.8                         | +6.8                      | 69      | 12   | 16     | 8                        | 39                   | 1.90  | -1.47                     | 0.74                 | T.                        | 9                            | 12                           | 8         | 11    | nw.                   | Prof. N. W. Swayne.         |
| Gettysburg         | Adams        | 553             | 58                      | 40.6                         | +8.4                      | 65      | 12   | 18     | 8                        | 25                   | 2.03  | -1.18                     | 0.95                 | 2.0                       | 9                            | 13                           | 4         | 14    | w.                    | Dr. Henry Stewart.          |
| Gordon             | Schuylkill   | 840             | 27                      | 36.6                         | +7.6                      | 61      | 12   | 8      | 27                       | 38                   | 2.25  | -1.57                     | 0.51                 | 3.0                       | 13                           | 12                           | 4         | 15    | w.                    | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 16                      | 31.7                         |                           | 53      | 12   | 7      | 8†                       | 27                   | 2.51  | -0.32                     | 0.75                 | 4.2                       | 8                            | 12                           | 3         | 16    | sw.                   | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 38                      | 33.1                         | +6.4                      | 62      | 12   | 16     | 8                        | 30                   | 2.43  | -1.16                     | 0.73                 | 1.0                       | 8                            | 11                           | 11        | 9     | w.                    | State Sanatorium.           |
| Hanover            | York         | 600             | 27                      | 42.4                         | +8.2                      | 70      | 12   | 19     | 8                        | 26                   | 2.02  | -1.03                     | 0.91                 | 3.0                       | 9                            | 14                           | 2         | 15    | s.                    | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 62                      | 40.2                         | +7.5                      | 62      | 12   | 22     | 8                        | 23                   | 1.70  | -1.32                     | 0.55                 | 0.8                       | 9                            | 8                            | 15        | w.    | U. S. Weather Bureau. |                             |
| Hawley             | Wayne        | 900             | 13                      | 33.8                         | +5.0                      | 60      | 15   | 5      | 3                        | 45                   | 1.89  | -0.99                     | 0.55                 | 3.0                       | 14                           | 11                           | 5         | 14    | w.                    | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 16                      | 42.3                         | +8.1                      | 64      | 1    | 25     | 8†                       | 26                   | 1.68  | -0.68                     | 0.55                 | 1.0                       | 11                           | 9                            | 16        | 6     | w.                    | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 44                      | 38.0                         | +6.4                      | 60      | 12   | 11     | 3†                       | 43                   | 3.05  | +0.12                     | 1.02                 | 2.0                       | 9                            | 10                           | 7         | 14    | w.                    | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 19                      | 40.4                         | +8.0                      | 68      | 12   | 14     | 8                        | 39                   | 4.43  | +1.87                     | 1.22                 | 0                         | 12                           | 6                            | 4         | 21    | .....                 | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 44                      | 36.5                         | +3.1                      | 60      | 1    | 12     | 27                       | 29                   | 2.08  | -1.04                     | 0.85                 | 1.0                       | 7                            | 13                           | 10        | 8     | w.                    | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 34                      | 33.8                         | +5.1                      | 57      | 12   | 9      | 27                       | 32                   | 2.62  | +0.62                     | 0.75                 | 2.0                       | 8                            | 10                           | 5         | 16    | .....                 | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 47                      | 38.8                         | +6.8                      | 64      | 12   | 18     | 27                       | 27                   | 2.46  | -0.94                     | 0.53                 | 0.8                       | 14                           | 13                           | 6         | 12    | nw.                   | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 55                      | 37.6                         | +7.5                      | 59      | 19   | 16     | 27                       | 31                   | 2.92  | -0.20                     | 0.63                 | 2.0                       | 12                           | 9                            | 13        | 13    | sw.                   | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 41                      | 39.0                         | +8.0                      | 57      | 12†  | 13     | 8                        | 29                   | 2.41  | -0.55                     | 0.56                 | 1.5                       | 9                            | 7                            | 7         | 17    | sw.                   | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 16                      | 37.8                         | +6.8                      | 62      | 12†  | 8      | 28                       | 40                   | 2.14  | -0.65                     | 0.54                 | 1.0                       | 11                           | 13                           | 8         | 10    | nw.                   | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 4                       | 44.6                         |                           | 65      | 19   | 21     | 8                        | 26                   | 2.20  |                           | 0.96                 | T.                        | 5                            | 10                           | 6         | 15    | nw.                   | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 42                      | 36.7                         | +6.0                      | 64      | 12   | 15     | 6†                       | 36                   | 2.25  | -1.75                     | 0.59                 | 2.1                       | 8                            | 14                           | 3         | 14    | nw.                   | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 27                      | 38.2                         | +7.1                      | 60      | 12   | 15     | 27                       | 31                   | 2.05  | -0.66                     | 0.82                 | 1.0                       | 10                           | 12                           | 2         | 17    | w.                    | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 27                      | 33.8                         | +7.7                      | 60      | 12   | 5      | 28                       | 40                   | 2.80  | +0.28                     | 0.70                 | 3.0                       | 8                            | 8                            | 5         | 18    | s.                    | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 25                      | 30.6                         | +4.8                      | 54      | 24   | 8      | 8†                       | 25                   | 1.47  | -2.11                     | 0.40                 | 5.3                       | 9                            | 11                           | 5         | 15    | nw.                   | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 19                      | 34.2                         | +6.2                      | 56      | 12   | 8      | 27                       | 32                   | 2.48  | -0.36                     | 0.43                 | 1.5                       | 11                           | 14                           | 3         | 14    | n.                    | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 42                      | 37.8                         | +6.1                      | 69      | 12   | 17     | 27                       | 34                   | 2.43  | -0.84                     | 0.85                 | 0                         | 11                           | 16                           | 0         | 15    | w.                    | North Springfield Water Co. |
| Palmerton          | Carbon       | 398             | 13                      | 37.4                         |                           | 64      | 12   | 17     | 6                        | 31                   | 1.98  | -0.37                     | 0.57                 | 1.8                       | 8                            | 17                           | 2         | 12    | sw.                   | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 60                      | 44.2                         | +7.9                      | 65      | 12   | 23     | 8                        | 24                   | 1.78  | -1.65                     | 0.72                 | T.                        | 7                            | 7                            | 9         | 15    | nw.                   | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 7                       | 42.8                         |                           | 65      | 12   | 22     | 8                        | 24                   | 2.18  |                           | 0.85                 | 0.2                       | 7                            | 7                            | 9         | 15    | .....                 | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 15                      | 41.8                         | +6.6                      | 62      | 14†  | 22     | 8                        | 24                   | 1.78  | -1.32                     | 0.82                 | T.                        | 9                            | .....                        | .....     | ..... | .....                 | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 21                      | 40.7                         | +7.5                      | 63      | 12   | 19     | 8                        | 29                   | 1.88  | -1.24                     | 0.67                 | T.                        | 6                            | 17                           | 8         | 6     | nw.                   | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 46                      | 37.5                         | +6.3                      | 63      | 12   | 17     | 27                       | 27                   | 2.56  | -0.88                     | 0.84                 | T.                        | 11                           | 9                            | 8         | 14    | nw.                   | John E. Benner.             |
| Reading            | Berks        | 325             | 59                      | 40.1                         | +7.9                      | 64      | 12   | 21     | 8                        | 21                   | 1.27  | -2.29                     | 0.40                 | 0.5                       | 7                            | 8                            | 8         | 15    | w.                    | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 37                      | 36.0                         | +5.3                      | 59      | 12   | 15     | 8                        | 28                   | 1.35  | -1.67                     | 0.52                 | 0.9                       | 12                           | 6                            | 12        | 13    | sw.                   | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 41                      | 38.2                         | +6.7                      | 59      | 24   | 11     | 8                        | 31                   | 3.75  | +0.71                     | 1.58                 | 3.0                       | 9                            | 11                           | 5         | 15    | sw.                   | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 35                      | 41.5                         | +6.4                      | 64      | 12   | 21     | 8                        | 26                   | 1.92  | -1.65                     | 0.81                 | 0.2                       | 11                           | 9                            | 8         | 14    | nw.                   | W. S. Guiles.               |
| State College      | Center       | 1,217           | 47                      | 36.5                         | +6.8                      | 57      | 22   | 13     | 8                        | 27                   | 2.26  | -0.36                     | 0.72                 | 0.5                       | 10                           | 8                            | 15        | 13    | w.                    | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 17                      | 35.4                         | +5.7                      | 62      | 12   | 12     | 6                        | 32                   | 2.60  | -0.73                     | 0.62                 | 2.0                       | 10                           | 10                           | 5         | 16    | nw.                   | State Normal School.        |
| Towanda            | Bradford     | 754             | 37                      | 34.7                         | +5.9                      | 58      | 12†  | 11     | 27                       | 35                   | 2.36  | +0.12                     | 0.74                 | 1.1                       | 11                           | 6                            | 7         | 18    | sw.                   | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 61                      | 33.2                         | +5.3                      | 56      | 19   | 8      | 27                       | 34                   | 2.76  | +0.30                     | 0.80                 | 1.0                       | 10                           | 15                           | 3         | 13    | sw.                   | George W. Hill.             |
| West Chester       | Chester      | 455             | 82                      | 41.2                         | +8.1                      | 65      | 12   | 20     | 8                        | 26                   | 1.86  | -2.04                     | 0.82                 | T.                        | 7                            | 13                           | 5         | 19    | w.                    | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 45                      | 36.4                         | +5.7                      | 58      | 12   | 15     | 8                        | 26                   | 2.80  | -0.12                     | 0.49                 | 1.0                       | 14                           | 10                           | 2         | 19    | nw.                   | Miss Veronica E. April.     |
| York               | York         | 400             | 43                      | 38.4                         | +5.3                      | 61      | 1    | 14     | 27                       | 29                   | 1.85  | -1.08                     | 0.78                 | 2.0                       | 9                            | 11                           | 8         | 12    | w.                    | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |                              |           |       |                       |                             |
| Beaver Dam         | Beaver       | 700             | 39                      | 39.8                         | +6.8                      | 62      | 24   | 16     | 8                        | 29                   | 3.61  | +0.90                     | 1.17                 | 0.3                       | 16                           | 7                            | 3         | 21    | sw.                   | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 12                      | 33.6                         | +5.4                      | 53      | 11   | 10     | 27                       | 28                   | 4.03  | +0.96                     | 0.80                 | 3.5                       | 15                           | 7                            | 4         | 20    | sw.                   | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 41                      | 34.9                         | +7.0                      | 61      | 23   | 9      | 9                        | 37                   | 5.02  | +2.07                     | 1.15                 | 0.5                       | 11                           | 13                           | 7         | 11    | .....                 | John Fawcett.               |
| Butler             | Butler       | 1,152           | 17                      | 38.4                         |                           | 60      | 12†  | 14     | 27                       | 38                   | 4.59  | +1.90                     | 0.83                 | T.                        | 8                            | 6                            | 10        | 15    | nw.                   | William C. Faust.           |
| Chambersville      | Indiana      |                 |                         |                              |                           |         |      |        |                          |                      |       |                           |                      |                           |                              |                              |           |       |                       |                             |



Daily Precipitation for December, 1931

| Stations           | Drainage Basin | Day of month |     |     |     |     |     |     |     |      |     |     |      |      |     |     |    |    |    |     |     |     |     |     |     |     |     |     |    |    |     |    | Total |      |
|--------------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|------|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|-------|------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9    | 10  | 11  | 12   | 13   | 14  | 15  | 16 | 17 | 18 | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28 | 29 | 30  | 31 |       |      |
| Atlantic Drainage. |                |              |     |     |     |     |     |     |     |      |     |     |      |      |     |     |    |    |    |     |     |     |     |     |     |     |     |     |    |    |     |    |       |      |
| Allentown          | Lehigh         | .18          |     |     | .03 | .73 |     |     | T.  | T.   | .58 | .10 | .07  | .05  |     |     |    |    |    | T.  | .02 | .05 | .04 | .24 |     |     | .02 |     |    |    |     | T. | 2.11  |      |
| Altoona            | Juniata        |              |     |     | .15 | .04 |     |     |     | .39  |     | .65 |      | .86  | .18 |     |    |    |    |     | .03 |     | .20 | .03 | .40 |     |     |     |    |    |     |    | 2.93  |      |
| Ansonia            | W. Br. Susq.   | T.           | .01 |     | .01 | .24 |     |     | T.  | .01  | .19 | .08 | .19  | .46  | .45 | .18 | T. |    |    |     |     | .07 | .02 | .38 |     | .29 |     |     |    |    |     |    | 2.60  |      |
| Ardmore            | Lower Del.     |              |     |     | .26 |     |     |     |     | .70  |     | .04 |      | .16  |     |     |    |    |    |     |     | .07 | .02 | .38 |     | .02 |     |     |    |    |     |    | 1.65  |      |
| Arendtsville       | Lower Susq.    |              |     |     |     | .04 |     |     |     |      |     | .94 | .34  | .27  | .12 |     |    |    |    |     | T.  | .07 | .28 |     | .08 |     |     |     |    |    | .70 |    | 2.89  |      |
| Baker's Summit     | Juniata        |              |     |     | .14 |     |     |     |     | .87  |     | .50 | .06  | 1.30 | .14 |     |    |    |    |     |     |     | .12 |     | .30 |     |     |     |    |    |     |    | 3.43  |      |
| Bedford            | Juniata        |              |     |     | .10 | T.  |     | T.  |     | .88  |     | .43 | .07  | .60  | .05 |     |    |    |    |     |     |     | .08 |     | .20 |     |     |     |    |    |     |    | 2.41  |      |
| Bellefonte         | W. Br. Susq.   | T.           | T.  |     | .13 | .01 | T.  | T.  |     | .28  | T.  | .27 |      | .57  | .09 | T.  |    |    |    |     | .01 | T.  | .25 | T.  | .18 | .01 |     |     | T. |    |     |    | 1.81  |      |
| Bethlehem          | Lehigh         |              |     |     | .31 | .22 |     |     | T.  | .54  | .07 | .09 | .03  | .10  | .06 |     |    |    |    |     | .07 |     | .13 | .19 |     | .02 | T.  |     |    |    |     |    | 1.83  |      |
| Blossville         | Lower Susq.    |              |     |     | .10 |     |     |     |     | .47  |     | .25 |      | .23  | .12 |     |    |    |    |     |     | T.  | .40 |     | .12 |     |     |     |    |    |     |    | 1.66  |      |
| Buffalo Mills      | Juniata        | .10          |     |     | .16 |     |     |     |     | .05  | .85 |     | .60  | .50  | .20 | .05 |    |    |    |     | .01 | .02 | T.  | .44 | .08 | .10 |     |     |    |    |     |    | 3.02  |      |
| Carlisle           | Lower Susq.    |              |     |     | .11 |     |     |     |     | .62  |     | .28 | .05  | .16  | .07 |     |    |    |    |     |     |     |     |     |     |     |     |     |    |    |     |    | 1.94  |      |
| Catawissa          | N. Br. Susq.   |              |     |     | .42 |     |     |     |     | .42  |     | .13 |      | .55  | .06 |     |    |    |    |     | .19 |     | .42 |     | .09 |     |     |     |    |    |     |    | 2.28  |      |
| Center Hall        | Susquehanna    |              |     |     | .32 |     |     | T.  |     | .22  |     | .41 |      | .12  | .38 |     |    |    |    |     |     |     | .10 |     | .11 |     |     |     |    |    |     |    | 1.66  |      |
| Chambersburg       | Potomac        |              |     |     | .13 |     |     |     |     | .85  |     | .41 | .10  | .28  | .04 |     |    |    |    |     |     |     | .44 |     | .04 | .03 |     |     |    |    |     |    | T.    | 2.32 |
| Clearfield         | W. Br. Susq.   | T.           |     |     | .25 | .05 | .05 |     |     | .52  | .08 | .55 | .20  | 1.30 | .55 |     |    |    |    |     |     | .20 |     | .40 | .10 | .40 |     |     |    |    |     |    | 4.65  |      |
| Coatesville        | Lower Del.     |              |     |     | .40 |     |     |     |     | .92  |     | .18 | .03  | .15  | .05 |     |    |    |    |     |     | .01 |     | .55 | .01 |     |     |     |    |    |     |    | 2.30  |      |
| Colebrook          | Lower Susq.    |              |     |     | .43 | .01 | T.  |     |     | .79  | T.  | .19 | .04  | .16  | .03 |     |    |    |    |     |     | T.  | T.  | .43 |     | T.  |     |     |    |    |     |    | 2.08  |      |
| Conshohocken       | Schuylkill     |              |     |     | .28 | .02 |     |     |     | .94  |     | .04 |      | .15  | T.  |     |    |    |    |     |     | .02 |     | .51 | .17 |     |     |     |    |    |     |    | 2.13  |      |
| Cresskill          | Juniata        |              |     |     | .21 |     |     |     |     | .40  | .08 | .68 |      | .50  | .28 |     |    |    |    |     |     |     |     | .33 |     | .47 |     |     |    |    |     |    | 2.95  |      |
| Doylestown         | Lower Del.     |              |     |     | .69 | .02 |     |     |     | .58  | T.  | .08 |      | .06  | .02 |     |    |    |    |     |     | .17 |     | .25 | .12 |     | T.  |     |    |    |     |    | 1.99  |      |
| Driftwood          | W. Br. Susq.   |              |     |     |     |     |     |     |     |      |     |     |      |      |     |     |    |    |    |     |     |     |     |     |     |     |     |     |    |    |     |    |       |      |
| Emporium           | W. Br. Susq.   | T.           |     |     | .26 |     | T.  | .10 |     | .05  | .31 | .70 | 1.60 | .42  |     |     |    |    |    |     |     | .10 | .09 | .32 |     | .49 | .05 |     |    | T. |     |    | 4.49  |      |
| Ephrata            | Lower Susq.    |              |     |     | .49 |     |     |     |     | .76  | T.  | .18 | T.   | .10  | .02 |     |    |    |    |     |     |     |     | .31 | .03 | T.  |     |     |    |    |     |    | 1.89  |      |
| Forest City        | N. Br. Susq.   |              |     |     |     | .25 |     | .07 |     |      | .16 |     | .32  | .41  | .32 | .07 |    |    |    |     |     |     |     |     | .30 |     | .10 |     |    |    |     |    | 2.00  |      |
| Freeland           | Lehigh         | .14          |     |     | .05 | .36 |     | .01 | T.  | .03  | .44 |     | .17  | .42  | .12 | .05 |    |    |    |     |     | .27 | .06 | .02 | .40 |     | .09 |     |    |    |     |    | 2.66  |      |
| Gaileton           | W. Br. Susq.   |              | .03 |     | .25 |     |     | .15 |     | .20  | .02 | .38 |      | 1.02 | .54 |     |    |    |    |     |     | .09 | .24 |     | .48 |     |     |     |    |    |     |    | 3.42  |      |
| George School      | Lower Del.     |              |     |     | .34 | T.  |     |     |     | .70  | .04 | .08 |      | .24  | .08 |     |    |    |    |     |     | .18 |     | .15 | .09 |     | T.  |     |    |    |     |    | 1.90  |      |
| Gettysburg         | Potomac        |              |     |     | .13 |     |     |     |     | .95  |     | .33 | .14  | .18  | .03 |     |    |    |    |     |     |     |     | .23 | .02 | .02 |     |     |    |    |     |    | 2.03  |      |
| Girardville        | Lower Susq.    |              |     |     | .25 |     |     |     |     | .43  |     | .13 |      | .62  | .08 |     |    |    |    |     |     | .26 | .14 |     | .29 | .03 |     |     |    |    |     |    | 2.23  |      |
| Gordon             | Lower Susq.    |              |     |     | .24 | .09 |     |     |     | .51  | .02 | .14 | .04  | .51  | .11 |     |    |    |    |     |     | .06 |     | .24 | .24 | .03 | .02 |     |    |    |     |    | 2.25  |      |
| Gouldsboro         | Lehigh         |              |     |     | .09 |     |     |     |     |      | .35 |     | .66  | .15  | .45 |     |    |    |    |     |     | .03 |     |     |     |     | .03 |     |    |    |     |    | 2.51  |      |
| Graterford         | Schuylkill     |              |     |     | .61 | .04 |     |     |     | .59  |     | .04 |      | .17  | .12 |     |    |    |    |     |     | .13 |     | .23 | .14 |     |     |     |    |    |     |    | 2.07  |      |
| Hamburg            | Schuylkill     |              |     |     | .66 | .04 |     |     |     | .40  |     |     |      | .40  | .33 |     |    |    |    |     |     | .10 |     | .45 |     | .02 |     | .07 |    |    |     |    | 2.43  |      |
| Hanover            | Lower Susq.    |              |     |     | .18 |     |     |     |     | .91  |     | .27 | .11  | .21  | .06 |     |    |    |    |     |     |     | .16 | .11 | .01 | T.  |     |     |    |    |     |    | 2.02  |      |
| Harrisburg         | Lower Susq.    |              |     |     | .21 |     | T.  | T.  |     | .55  |     | .20 | .03  | .11  | .04 |     |    |    |    |     |     | T.  | .01 | .51 |     | .04 | T.  |     |    |    |     |    | 1.70  |      |
| Hawley             | Upper Del.     | .21          | T.  | T.  | T.  | .25 |     |     | .02 | .02  | .22 |     | .24  | .18  | .55 | .01 | T. |    |    | .01 |     | .01 | .03 | .08 |     | .04 | .02 |     |    |    |     |    | 1.89  |      |
| Hollisterville     | Upper Del.     | .11          | .02 |     | .03 | .25 |     |     | T.  | T.   | .26 | T.  | .22  | .37  | .38 | T.  | T. |    |    |     |     | .04 | T.  | .03 | .14 |     | .03 | T.  | T. |    |     |    | 1.88  |      |
| Holtwood           | Lower Susq.    | .03          |     |     | .04 | .17 |     |     |     | .24  | .55 |     | .15  | .05  | .08 |     |    |    |    |     |     | .02 |     | .10 | .25 |     | T.  |     |    |    |     |    | 1.68  |      |
| Huntingdon         | Juniata        |              |     |     | .22 |     |     | T.  |     | .78  |     | .48 | T.   | 1.02 | .16 |     |    |    |    |     |     |     |     | .09 | .05 | .18 | .07 |     |    |    |     |    | 3.05  |      |
| Hyndman            | Potomac        |              |     |     | .06 | .06 |     |     |     | 1.22 | .01 | .58 | .37  | .86  | .93 |     |    |    |    |     | T.  |     | .05 |     | .24 | .03 |     |     |    |    |     |    | .02   | 4.43 |
| Kylertown          | W. Br. Susq.   |              |     |     | .28 |     |     | T.  |     | .50  | .03 | .55 |      | .75  | .29 | T.  |    |    |    |     | .15 |     | .18 |     | .23 | .02 |     |     |    |    |     |    | 2.98  |      |
| Lakeville          | Upper Del.     | .02          |     |     | .23 |     | .01 | .01 |     | T.   | .23 | T.  | .25  | .50  | .31 | .06 | T. |    |    |     |     |     | .03 | .02 | .11 |     | .02 | .01 |    |    |     |    | 1.80  |      |
| Lancaster          | Lower Susq.    |              |     |     | .38 |     |     |     |     | .85  |     | .25 | .05  | .12  |     |     |    |    |    |     |     |     | .21 | .22 |     |     |     |     |    |    |     |    | 2.08  |      |
| Lansford           | Lehigh         | .22          |     |     | .07 | .28 |     |     |     | .06  | .44 |     | .15  | *    | .53 | .04 |    |    |    |     | .19 |     | .02 | .33 |     | .02 |     |     |    |    |     |    | 2.35  |      |
| Lawrenceville      | N. Br. Susq.   |              |     |     | .35 |     |     | T.  |     | .10  |     | .35 |      | .75  | .55 | T.  |    |    |    |     | .10 |     | .21 |     | .20 | T.  |     |     |    |    |     |    | 2.62  |      |
| Lebanon            | Lower Susq.    |              |     | .09 | .41 |     |     |     |     | .53  | .01 | .24 | .08  | .07  | .01 |     |    |    |    |     |     | .03 | .05 | .38 |     | .05 |     |     |    |    |     |    | .41   | 2.46 |
| Lewisburg          | W. Br. Susq.   |              |     |     | .63 |     |     |     |     | .52  | .01 | .26 | .01  | .56  | .10 |     |    |    |    |     |     | .20 |     | .29 | .21 | .07 | .06 |     |    |    |     |    |       | 2.92 |
| Lloyd              | do             |              |     |     |     |     |     |     |     |      |     |     |      |      |     |     |    |    |    |     |     |     |     |     |     |     |     |     |    |    |     |    |       |      |
| Lock Haven         | do             |              |     |     | .17 |     |     | T.  |     | .43  |     | .37 |      | .56  | .36 | T.  |    |    |    |     |     | .09 |     | .17 | .13 | .13 | T.  |     |    |    |     |    |       | 2.41 |
| Lykens             | Susquehanna    |              |     |     | .22 | .07 |     |     |     | .54  |     | .15 | T.   | .39  | .21 |     |    |    |    |     |     | .12 |     | .16 | .22 | .03 | .03 |     |    |    |     |    | 2.14  |      |
| Marcus Hook        | Lower Del.     |              |     |     | .52 |     |     |     |     | .96  |     | .09 |      | .20  |     |     |    |    |    |     |     |     |     | .43 |     |     |     |     |    |    |     |    | 2.20  |      |
| Mauch Chunk        | Lehigh         |              |     |     | .37 |     |     | T.  |     | .59  |     | .20 |      | .45  | .06 |     |    |    |    |     |     | .24 |     | .27 | .07 |     |     |     |    |    |     |    | 2.25  |      |
| Mifflintown        | Juniata        |              |     |     | .15 |     |     | T.  |     | .42  |     | .25 | .02  | .82  | .08 | T.  |    |    |    |     |     | .02 |     | .21 | .02 | .06 | T.  |     |    |    |     |    | 2.05  |      |
| Montrose           | N. Br. Susq.   |              |     |     | .40 |     |     | T.  |     | .30  |     | .3  |      |      |     |     |    |    |    |     |     |     |     |     |     |     |     |     |    |    |     |    |       |      |



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| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |      |     |      |      |      |      |     |    |    |    |     |     |     |     |     |     |     |     |     |     |    |     | Total |      |      |      |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|------|------|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|------|------|------|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11  | 12   | 13   | 14   | 15   | 16  | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30 | 31  |       |      |      |      |
| Ohio Drainage.  |                |              |     |     |     |     |     |     |     |     |      |     |      |      |      |      |     |    |    |    |     |     |     |     |     |     |     |     |     |     |    |     |       |      |      |      |
| Beaver Dam      | Ohio           |              |     |     | .06 | .22 |     |     |     | .13 | .07  | .36 | .45  | .30  | 1.11 | .06  |     |    |    |    |     | .01 |     | .22 | .17 | .02 | .40 | .02 | .01 |     |    |     |       | 3.61 |      |      |
| Beaver Falls    | Beaver         |              |     |     | .09 | .20 |     |     | T.  | .07 | .05  | .32 | .34  | .51  | 1.00 | .04  |     |    |    |    | T.  | .12 |     | .20 | .34 | T.  | .40 | T.  | T.  |     |    |     |       | 3.56 |      |      |
| Bradford        | Allegheny      | .02          | .10 |     | .41 |     | .07 | .04 |     | .17 | .02  | .38 |      | .80  | .75  | T.   |     |    |    |    |     |     |     | .68 | .08 | .32 | .07 |     |     |     |    |     |       | 4.03 |      |      |
| Brookville      | do             | .20          | .07 |     | .55 |     |     |     | T.  |     |      | .36 |      | .95  |      | 1.15 | .32 |    |    |    |     |     |     | .40 | .35 | .05 | .62 |     |     |     |    |     |       | 5.05 |      |      |
| Butler          | Ohio           |              |     |     | .36 | .02 |     | T.  |     | .25 | T.   | .75 |      | *    | 1.70 |      |     |    |    |    | T.  |     | .08 | .60 |     | .83 |     |     |     |     |    |     |       | 4.56 |      |      |
| Chambersville   | Allegheny      |              |     |     | .25 | .06 | .01 |     |     | .22 | .02  | .79 |      | 1.16 | .45  |      |     |    |    |    |     | .05 | .65 | .09 | .35 | .08 |     |     |     |     |    |     |       | 4.18 |      |      |
| Clairton        | Monongahela    |              |     |     | .19 |     |     |     |     | .25 |      | .45 | .08  | .64  | .14  |      |     |    |    |    | .01 | .08 | .34 | T.  | .51 |     |     |     | T.  |     |    |     | .02   | 2.71 |      |      |
| Claysville      | Ohio           |              |     |     | .07 | .07 |     |     |     | .28 | .02  | .82 |      | .88  | .27  | .02  |     |    |    |    | T.  | .01 | .36 |     | .46 | .04 |     |     | .01 | .01 |    |     |       | .03  | 3.35 |      |
| Clymer          | Conemaugh      |              |     |     | .20 | .10 | T.  |     |     | .25 | .10  | .60 | .60  | .63  | .56  | .20  |     |    |    |    |     |     | .20 | .20 | .45 | T.  | T.  |     |     |     |    |     |       | .30  | 4.39 |      |
| Confluence      | Youghiogheny   | .35          |     |     | .35 |     |     |     |     | .58 | .35  |     | 1.00 | .43  | .33  | .12  |     |    |    |    |     |     |     | .13 | .22 |     | .70 |     |     |     |    |     |       | .05  | 4.61 |      |
| Corry           | Allegheny      | .10          |     |     | .45 |     |     | .06 |     | .12 |      | .60 |      | .04  | 1.00 | T.   |     |    |    |    |     | .16 | .30 | .10 | .30 | T.  |     |     |     |     |    |     |       | .05  | 3.18 |      |
| Coudersport     | Allegheny      | .03          |     | .02 |     |     |     | .07 | .05 | .18 | .06  | .36 | .37  | .76  | .55  |      |     |    |    |    | .10 | *   | .22 | .13 | .60 | T.  |     |     |     |     |    |     |       | .17  | 4.07 |      |
| Derry           | Conemaugh      |              |     |     | .25 | .09 |     |     |     | .32 | .05  | .48 |      | .70  | .28  |      |     |    |    |    |     | .04 | .36 |     | .55 | .05 |     |     |     |     |    |     |       |      | 3.17 |      |
| Donora          | Monongahela    |              |     |     | .13 | .06 |     |     |     | .37 | .02  | .56 | .06  | .55  | .10  | .04  |     |    |    |    |     | T.  | .29 | .05 | .40 |     |     |     |     |     |    | .03 |       | 2.66 |      |      |
| Ebensburg       | Conemaugh      |              |     |     | .18 | T.  |     | T.  |     | .58 | .05  | .55 |      | .80  | .24  |      |     |    |    |    |     | .05 | .30 | .06 | .41 | T.  |     |     |     |     |    |     |       | 3.22 |      |      |
| Elk Lick        | Youghiogheny   |              |     |     | .40 |     |     |     |     | .20 | 1.00 | .78 | .82  | .91  | .25  |      |     |    |    |    |     | .07 | .26 |     | .74 |     |     |     |     |     |    |     |       | .06  | 5.49 |      |
| Falls Creek     | Allegheny      |              |     |     | .36 | .11 |     | T.  |     | .31 |      | .81 |      | .51  | 1.17 |      |     |    |    |    |     |     | .61 |     | .56 | .12 |     |     |     |     |    |     |       |      | 4.56 |      |
| Franklin        | Allegheny      |              |     |     | .16 | .40 |     |     |     | .09 | .13  | .19 | .34  | .63  | .93  | .06  |     |    |    |    |     | .03 | .52 | .43 |     | .40 |     |     |     |     |    |     |       | 4.31 |      |      |
| Freeport        | do             | T.           |     |     | .05 | .21 |     |     |     | .14 | .20  | .12 | .54  | .27  | .92  | .14  |     |    |    |    | .01 | .01 | .11 | .47 | T.  | .55 |     |     |     |     |    |     |       | 3.76 |      |      |
| Greensboro      | Monongahela    | .07          |     |     | .02 | .27 |     |     |     | .56 | .22  | T.  | .80  | .51  | .25  | .09  |     |    |    |    |     | T.  | T.  |     | .46 | .41 | .50 | .01 |     |     |    |     |       |      | 4.20 |      |
| Greensburg      | Youghiogheny   |              |     |     | .20 | .10 |     | T.  |     | .35 | .05  | .51 |      | .80  | .21  | T.   |     |    |    |    |     | .08 | .49 | .08 | .53 | T.  |     |     |     |     |    | .08 | .01   | T.   | 3.49 |      |
| Greenville      | Beaver         | T.           |     |     | .48 |     |     |     |     | .28 |      | .68 |      | .85  | .46  |      |     |    |    |    |     | T.  | .05 | .70 | T.  | .11 | T.  |     |     |     |    |     |       |      | 3.61 |      |
| Grove City      | do             |              |     |     | .64 | .10 | T.  | T.  |     | .31 | T.   | .73 | .02  | 1.47 | .44  |      |     |    |    |    | .01 | .04 | .06 | .62 | T.  | .63 | T.  |     |     |     |    |     |       | 5.07 |      |      |
| Herrs Isl. Dam  | Ohio           |              |     |     | .05 | .14 |     |     |     | .17 | .12  | .12 | .41  | .21  | .60  | .08  |     |    |    |    |     |     | .11 | .47 |     | .48 |     |     |     |     |    |     |       |      | 2.96 |      |
| Ingram          | Ohio           |              |     |     | .26 | .07 |     | T.  |     | .29 | .03  | .56 |      | .46  | .32  |      |     |    |    |    |     |     | T.  | .62 | .01 | .54 | .03 |     |     |     |    |     |       |      | T.   | 3.19 |
| Irwin           | Youghiogheny   |              |     |     | .20 | .05 |     |     |     | .30 | .06  | .51 |      | .71  | .20  |      |     |    |    |    |     | .05 | .86 | .06 | .48 | T.  |     |     |     |     |    |     |       |      | 3.60 |      |
| Johnstown       | Conemaugh      |              |     |     | .25 | .07 | .01 |     |     | .72 | .03  | .76 |      | .26  | 1.14 |      |     |    |    |    |     | .06 | .40 |     | .50 | .10 |     |     |     |     |    |     |       |      | 4.31 |      |
| Kregar          | Youghiogheny   |              |     | T.  | .33 |     |     |     |     | .13 | .01  | .60 | .71  | .27  | .22  |      |     |    |    |    |     | .03 | .08 | .50 |     | .53 | T.  |     |     |     |    |     |       | .09  | 3.67 |      |
| Lake Lynn       | Monongahela    | .15          |     |     | .22 |     |     | .27 | .24 | .42 | .41  | .94 | .05  | .23  | .25  | .19  |     |    |    |    |     | *   | .09 | .37 |     | .52 |     |     |     |     |    |     |       |      | 4.38 |      |
| Linesville      | Beaver         | .01          |     |     | .20 | .21 | .02 |     |     | .10 | .11  | .40 | .10  | .34  | .26  | .06  |     |    |    |    |     |     | .04 | .28 | .71 | .14 |     |     |     |     |    |     |       | 2.98 |      |      |
| Lock No. 2      | Ohio           |              |     |     | .04 | .17 |     |     |     | .14 | .08  | .22 | .39  | .23  | .91  | .13  |     |    |    |    |     |     | .12 | .34 | T.  | .64 |     |     |     |     |    |     |       |      | 3.41 |      |
| Lock No. 4      | Monongahela    | .03          |     |     | .01 | .20 |     |     |     | .34 | .16  | .04 | .78  | .46  | .25  | .09  |     |    |    |    |     | T.  | .01 | .13 | .24 |     | .48 |     |     |     |    |     |       |      | 3.21 |      |
| Lycippus        | Conemaugh      |              |     |     | .30 | .10 |     |     |     | .34 | .04  | .70 | .31  | .56  | .37  |      |     |    |    |    |     |     | .30 |     | .59 | T.  | T.  |     |     |     |    |     |       |      | 3.61 |      |
| McKeesport      | Monongahela    |              |     |     | .01 | .12 |     |     |     | .06 | .05  | .04 | .39  | .70  | .13  | .04  |     |    |    |    |     |     | .05 | .49 |     | .39 |     |     |     |     |    |     |       |      | 2.47 |      |
| Meadville       | Allegheny      |              |     |     | .28 | .10 |     |     |     | .17 | T.   | .54 |      | .63  | .30  |      |     |    |    |    |     | .04 | .53 | .18 | .10 | .06 |     |     |     |     |    |     |       |      | 2.95 |      |
| Mount Lebanon   | Ohio           |              |     |     | .17 | .07 |     |     |     | .28 | .06  | .57 |      | .61  | .24  | T.   |     |    |    |    |     | T.  | T.  | .62 | T.  | .48 | T.  |     |     |     |    |     |       |      | .02  | 3.12 |
| Natrona         | Allegheny      |              |     |     | .05 | .13 |     |     |     | .12 | .15  | .06 | .51  | .32  | .81  | .16  |     |    |    |    |     | T.  | .02 | .10 | .52 |     | .62 |     |     |     |    |     |       |      | 3.59 |      |
| New Castle      | Beaver         |              |     |     | .36 | .24 |     |     |     | .12 | .07  | .51 | .39  | .88  | .83  | .01  |     |    |    |    |     | .01 | .01 | .36 | .28 | .01 | .43 | .02 |     |     |    |     |       |      | 4.53 |      |
| Newell          | Monongahela    |              |     |     | .17 | .05 |     |     |     | .01 | .58  | .04 |      | .82  | .09  |      |     |    |    |    |     |     | .35 |     | .49 |     |     |     |     |     |    |     |       |      | 3.28 |      |
| Parkers Landing | Allegheny      | T.           | T.  |     | .12 | .12 |     |     |     | .02 | .42  | .27 | .78  | .62  | 1.22 | .15  |     |    |    |    |     | T.  | .03 | .26 | .63 | T.  | .65 | T.  |     |     |    |     |       |      | 5.25 |      |
| Pennline        | Beaver         | .03          |     |     | .25 | .30 | T.  | .14 | .05 | .45 | .06  | .20 | .23  | .09  | T.   |      |     |    |    |    |     | .06 | .21 | .47 | .21 | .17 | .01 |     |     |     |    |     |       |      | 2.90 |      |
| Pittsburgh      | Ohio           |              |     |     | .27 | .02 | T.  | T.  | T.  | .34 | .01  | .55 | .03  | .50  | .25  |      |     |    |    |    |     | T.  | T.  | .04 | .45 | T.  | .43 | .02 |     |     |    |     |       | .03  | 2.94 |      |
| Punxsutawney    | Allegheny      | .02          |     |     | T.  | .48 |     |     |     | T.  | .17  | .10 | .72  | .68  | 1.22 | .12  |     |    |    |    |     |     | .07 | .36 | .72 | .02 | .36 |     |     |     |    |     |       |      | 4.80 |      |
| Ridgway         | do             |              |     |     | .06 | .47 |     |     |     | .16 | .10  | .49 | .48  | 1.15 | .49  |      |     |    |    |    |     |     | .07 | .36 | .72 | .02 | .36 |     |     |     |    |     |       |      | 5.04 |      |
| Saltsburg       | Conemaugh      | .07          |     |     | .02 | .24 |     |     |     | .14 | .20  | .02 | .41  | .54  | .45  | .11  |     |    |    |    |     |     | .02 | .16 | .28 |     | .59 |     |     |     |    |     |       |      | 3.25 |      |
| Sharon          | Beaver         | T.           |     |     | .35 | .20 |     |     |     | .06 | .04  | .36 | .10  | .15  | .85  | .30  |     |    |    |    |     | T.  | T.  | .27 | .33 | T.  | .16 |     |     |     |    |     |       |      | 3.17 |      |
| Somersett       | Youghiogheny   |              |     |     | .18 | .04 |     |     |     | .78 | T.   | .68 | .06  | 1.10 | .28  |      |     |    |    |    |     |     | T.  | T.  | .22 | .02 | .58 |     |     |     |    |     |       |      |      | 3.98 |
| Springdale      | Allegheny      | .01          |     |     | .05 | .16 |     |     |     | .16 | .15  | .10 | .51  | .28  | .66  | .06  |     |    |    |    |     | T.  | .03 | .13 | .60 |     | .55 |     |     |     |    |     |       |      | 3.47 |      |
| Uniontown       | Monongahela    |              |     |     | .21 | .03 |     |     |     | .50 | .04  | .69 | .07  | .65  | .17  | .01  |     |    |    |    |     | .02 | T.  | .47 | .02 | .46 | .11 |     |     |     |    |     |       |      | T.   | 3.40 |
| Unity Reservoir | Youghiogheny   |              |     |     | .23 | .14 |     |     |     | .23 | .10  | .52 | .08  | .75  | .24  | .08  |     |    |    |    |     |     | .05 | .47 | .14 | .45 | .10 |     |     |     |    |     |       |      | 3.58 |      |
| Vandergrift     | Conemaugh      |              |     |     |     |     |     |     |     | .31 | T.   |     |      |      | .60  |      |     |    |    |    |     |     | .08 | .45 |     |     |     |     |     |     |    |     |       |      | 1.80 |      |
| Warren          | Allegheny      | .02          | .08 |     | .19 |     |     | .20 | .06 | .10 | .05  | .48 |      | .34  | 1.00 |      |     |    |    |    |     |     | .04 | .70 | .10 | .08 | .12 |     |     |     |    |     |       |      | 3.56 |      |
| Waynesburg      | Monongahela    |              |     |     | .20 |     |     |     |     | .61 |      | .72 |      | .91  | .20  |      |     |    |    |    |     |     |     | .31 |     | .42 |     |     |     |     |    |     |       |      | 3.45 |      |
| Westford        | Beaver         |              |     |     | .22 |     |     |     |     | .36 | .40  |     | .17  | .28  | .40  |      |     |    |    |    |     | .10 |     | .28 | .54 |     | T.  |     |     |     |    |     |       |      | 2.75 |      |
| West Newton     | Youghiogheny   |              |     |     |     | .18 |     |     |     | .25 | .07  | .02 | .47  | .43  | .20  | .08  |     |    |    |    |     |     |     | .08 | .19 |     | .49 |     |     |     |    |     |       |      | 2.40 |      |
| Lake Drainage.  |                |              |     |     |     |     |     |     |     |     |      |     |      |      |      |      |     |    |    |    |     |     |     |     |     |     |     |     |     |     |    |     |       |      |      |      |
| Erie            | Lake Erie      | T.           |     |     | .58 | T.  |     | .02 | T.  |     | .15  |     | .17  | </   |      |      |     |    |    |    |     |     |     |     |     |     |     |     |     |     |    |     |       |      |      |      |



## Daily Temperatures for December, 1931

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |      |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|
| Allentown.....     | Maximum | 44 | 41 | 48 | 47 | 39 | 39 | 42 | 31 | 40 | 44 | 45 | 63 | 43 | 54 | 41 | 46 | 50 | 46 | 57 | 44 | 39 | 52 | 58 | 57 | 48 | 41 | 41 | 35 | 45 | 42 | 36   | 45.1 |      |      |
|                    | Minimum | 39 | 32 | 24 | 26 | 35 | 21 | 25 | 18 | 19 | 27 | 38 | 40 | 38 | 40 | 37 | 36 | 27 | 30 | 33 | 39 | 22 | 24 | 37 | 45 | 41 | 24 | 18 | 20 | 22 | 28 | 30   | 30.2 |      |      |
| Altoona.....       | Maximum | 44 | 41 | 55 | 50 | 47 | 42 | 40 | 27 | 34 | 44 | 41 | 59 | 46 | 56 | 38 | 45 | 54 | 50 | 56 | 54 | 41 | 50 | 51 | 54 | 56 | 36 | 37 | 35 | 40 | 45 | 38   | 45.4 |      |      |
|                    | Minimum | 35 | 27 | 23 | 33 | 34 | 21 | 30 | 14 | 21 | 32 | 35 | 40 | 37 | 43 | 28 | 24 | 29 | 29 | 44 | 42 | 26 | 40 | 45 | 48 | 33 | 19 | 15 | 20 | 30 | 21 | 25   | 30.4 |      |      |
| Bedford.....       | Maximum | 45 | 46 | 50 | 52 | 50 | 46 | 45 | 31 | 35 | 45 | 43 | 63 | 51 | 59 | 41 | 47 | 56 | 55 | 59 | 59 | 45 | 54 | 55 | 60 | 58 | 44 | 40 | 37 | 40 | 42 | 38   | 48.1 |      |      |
|                    | Minimum | 25 | 21 | 17 | 30 | 33 | 24 | 26 | 14 | 23 | 33 | 36 | 42 | 42 | 41 | 31 | 21 | 22 | 28 | 42 | 44 | 33 | 42 | 47 | 40 | 32 | 23 | 14 | 21 | 30 | 22 | 27   | 29.9 |      |      |
| Bellefonte.....    | Maximum | 42 | 39 | 51 | 48 | 41 | 41 | 36 | 29 | 42 | 42 | 45 | 59 | 46 | 55 | 36 | 44 | 52 | 49 | 51 | 50 | 41 | 50 | 51 | 57 | 50 | 36 | 38 | 32 | 45 | 41 | 38   | 44.4 |      |      |
|                    | Minimum | 31 | 25 | 18 | 27 | 23 | 24 | 21 | 11 | 24 | 36 | 36 | 31 | 38 | 35 | 25 | 22 | 24 | 26 | 34 | 25 | 21 | 37 | 47 | 44 | 25 | 19 | 13 | 18 | 27 | 19 | 23   | 26.7 |      |      |
| Brookville.....    | Maximum | 46 | 39 | 41 | 51 | 45 | 40 | 37 | 39 | 29 | 44 | 40 | 51 | 56 | 57 | 56 | 35 | 43 | 50 | 43 | 45 | 49 | 50 | 61 | 49 | 57 | 42 | 32 | 42 | 38 | 43 | 40   | 44.8 |      |      |
|                    | Minimum | 35 | 28 | 18 | 14 | 30 | 27 | 19 | 11 | 9  | 27 | 36 | 33 | 30 | 33 | 33 | 26 | 21 | 20 | 21 | 35 | 25 | 23 | 40 | 44 | 40 | 23 | 14 | 10 | 18 | 13 | 20   | 26.0 |      |      |
| Butler.....        | Maximum | 40 | 41 | 54 | 47 | 36 | 40 | 38 | 29 | 45 | 42 | 59 | 60 | 59 | 60 | 55 | 37 | 46 | 48 | 47 | 52 | 50 | 57 | 55 | 60 | 56 | 38 | 36 | 45 | 45 | 40 | 46   | 46.9 |      |      |
|                    | Minimum | 34 | 26 | 16 | 30 | 29 | 27 | 23 | 15 | 27 | 36 | 38 | 34 | 39 | 34 | 28 | 27 | 25 | 23 | 37 | 32 | 30 | 48 | 44 | 46 | 32 | 21 | 14 | 28 | 34 | 16 | 30   | 29.8 |      |      |
| Carlisle.....      | Maximum | 55 | 41 | 42 | 44 | 44 | 40 | 45 | 33 | 32 | 44 | 44 | 65 | 50 | 43 | 48 | 51 | 47 | 54 | 62 | 53 | 44 | 45 | 55 | 55 | 55 | 44 | 37 | 47 | 44 | 47 | 44   | 46.6 |      |      |
|                    | Minimum | 41 | 33 | 17 | 25 | 33 | 20 | 31 | 18 | 25 | 31 | 35 | 44 | 42 | 39 | 35 | 18 | 25 | 34 | 34 | 38 | 22 | 38 | 44 | 48 | 36 | 25 | 15 | 20 | 29 | 25 | 24   | 30.5 |      |      |
| Catawissa.....     | Maximum | 50 | 45 | 52 | 41 | 44 | 40 | 46 | 46 | 35 | 42 | 48 | 58 | 52 | 55 | 42 | 48 | 53 | 49 | 55 | 46 | 42 | 47 | 56 | 62 | 58 | 50 | 42 | 36 | 49 | 44 | 45   | 47.7 |      |      |
|                    | Minimum | 35 | 33 | 21 | 31 | 26 | 20 | 30 | 16 | 26 | 33 | 35 | 42 | 34 | 40 | 32 | 25 | 26 | 29 | 38 | 35 | 23 | 38 | 45 | 45 | 30 | 22 | 13 | 20 | 25 | 22 | 23   | 29.5 |      |      |
| Chambersburg.....  | Maximum | 49 | 49 | 49 | 51 | 51 | 50 | 48 | 33 | 33 | 45 | 43 | 69 | 54 | 58 | 47 | 52 | 53 | 54 | 65 | 54 | 44 | 45 | 58 | 57 | 48 | 44 | 44 | 40 | 50 | 50 | 38   | 49.2 |      |      |
|                    | Minimum | 40 | 32 | 21 | 32 | 37 | 25 | 28 | 19 | 25 | 31 | 35 | 41 | 41 | 42 | 31 | 26 | 25 | 32 | 41 | 39 | 28 | 38 | 44 | 44 | 35 | 26 | 18 | 23 | 30 | 25 | 28   | 31.7 |      |      |
| Chambersville..... | Maximum | 45 | 40 | 52 | 50 | 46 | 40 | 40 | 30 | 47 | 48 | 58 | 60 | 59 | 60 | 37 | 44 | 50 | 46 | 51 | 53 | 53 | 60 | 50 | 59 | 58 | 36 | 44 | 46 | 44 | 40 | 41   | 48.0 |      |      |
|                    | Minimum | 32 | 25 | 17 | 32 | 28 | 25 | 25 | 9  | 28 | 36 | 37 | 43 | 36 | 35 | 28 | 24 | 27 | 34 | 38 | 40 | 28 | 48 | 45 | 44 | 30 | 17 | 13 | 28 | 33 | 15 | 28   | 29.6 |      |      |
| Claysville.....    | Maximum | 45 | 43 | 51 | 51 | 44 | 43 | 41 | 37 | 48 | 47 | 61 | 61 | 61 | 61 | 39 | 45 | 50 | 52 | 54 | 54 | 58 | 57 | 61 | 62 | 56 | 39 | 46 | 46 | 45 | 42 | 47   | 49.6 |      |      |
|                    | Minimum | 33 | 24 | 19 | 19 | 32 | 31 | 25 | 11 | 29 | 39 | 39 | 45 | 42 | 37 | 28 | 28 | 27 | 25 | 41 | 41 | 32 | 48 | 40 | 50 | 29 | 24 | 19 | 32 | 32 | 23 | 32   | 31.5 |      |      |
| Clearfield.....    | Maximum | 45 | 38 | 43 | 50 | 45 | 41 | 41 | 31 | 40 | 45 | 53 | 63 | 45 | 53 | 43 | 45 | 56 | 48 | 51 | 52 | 55 | 52 | 52 | 56 | 59 | 44 | 43 | 53 | 46 | 40 | 47.5 |      |      |      |
|                    | Minimum | 34 | 25 | 20 | 35 | 25 | 21 | 21 | 9  | 33 | 32 | 34 | 43 | 30 | 33 | 28 | 30 | 40 | 23 | 35 | 38 | 21 | 39 | 41 | 43 | 28 | 18 | 10 | 20 | 28 | 12 | 16   | 28.1 |      |      |
| Coatesville.....   | Maximum | 53 | 42 | 42 | 51 | 47 | 47 | 45 | 31 | 41 | 47 | 48 | 64 | 52 | 60 | 43 | 46 | 49 | 46 | 59 | 50 | 42 | 52 | 59 | 57 | 54 | 36 | 41 | 37 | 46 | 42 | 35   | 47.2 |      |      |
|                    | Minimum | 40 | 31 | 22 | 32 | 23 | 22 | 30 | 20 | 26 | 35 | 40 | 46 | 44 | 43 | 32 | 24 | 27 | 35 | 37 | 36 | 27 | 39 | 46 | 45 | 34 | 25 | 22 | 22 | 29 | 28 | 26   | 31.9 |      |      |
| Corry.....         | Maximum | 36 | 42 | 48 | 52 | 35 | 35 | 31 | 32 | 39 | 40 | 47 | 55 | 55 | 40 | 42 | 32 | 27 | 32 | 28 | 25 | 25 | 33 | 29 | 25 | 45 | 46 | 49 | 14 | 14 | 27 | 23   | 28   | 27.6 |      |
|                    | Minimum | 32 | 26 | 25 | 25 | 20 | 24 | 19 | 15 | 25 | 33 | 37 | 42 | 27 | 32 | 28 | 25 | 26 | 25 | 33 | 29 | 25 | 45 | 46 | 49 | 14 | 14 | 27 | 23 | 28 | 21 | 15   | 27.6 |      |      |
| Emporium.....      | Maximum | 43 | 38 | 48 | 45 | 44 | 40 | 45 | 28 | 38 | 43 | 47 | 54 | 47 | 55 | 44 | 47 | 55 | 44 | 60 | 43 | 40 | 46 | 42 | 52 | 58 | 53 | 35 | 31 | 41 | 44 | 42   | 41   | 44.6 |      |
|                    | Minimum | 33 | 25 | 18 | 22 | 18 | 22 | 6  | 28 | 30 | 36 | 33 | 32 | 36 | 23 | 22 | 22 | 24 | 30 | 30 | 22 | 40 | 48 | 48 | 28 | 21 | 10 | 17 | 29 | 16 | 20 | 26   | 26.2 |      |      |
| Erie.....          | Maximum | 43 | 40 | 52 | 43 | 38 | 38 | 31 | 43 | 42 | 59 | 54 | 47 | 45 | 36 | 40 | 47 | 45 | 36 | 40 | 47 | 47 | 49 | 52 | 58 | 50 | 60 | 41 | 31 | 42 | 40 | 38   | 36   | 40   | 44.2 |
|                    | Minimum | 35 | 33 | 33 | 38 | 23 | 26 | 24 | 25 | 31 | 38 | 41 | 37 | 37 | 34 | 31 | 32 | 33 | 33 | 42 | 30 | 30 | 46 | 47 | 41 | 25 | 24 | 23 | 34 | 33 | 26 | 28   | 32.7 |      |      |
| Franklin.....      | Maximum | 38 | 45 | 52 | 44 | 40 | 39 | 32 | 44 | 40 | 57 | 55 | 59 | 47 | 39 | 46 | 52 | 45 | 51 | 43 | 57 | 58 | 50 | 59 | 45 | 43 | 38 | 45 | 42 | 45 | 46 | 40   | 46.0 |      |      |
|                    | Minimum | 34 | 26 | 18 | 19 | 27 | 19 | 30 | 17 | 18 | 25 | 27 | 35 | 29 | 39 | 29 | 26 | 22 | 22 | 24 | 39 | 25 | 28 | 45 | 45 | 32 | 19 | 14 | 21 | 24 | 16 | 16   | 26.1 |      |      |
| Freeland.....      | Maximum | 41 | 34 | 49 | 46 | 42 | 34 | 38 | 25 | 36 | 38 | 39 | 57 | 45 | 53 | 38 | 42 | 48 | 41 | 51 | 42 | 34 | 44 | 54 | 52 | 50 | 28 | 35 | 37 | 39 | 38 | 40   | 41.6 |      |      |
|                    | Minimum | 32 | 23 | 25 | 33 | 18 | 14 | 20 | 9  | 19 | 32 | 33 | 36 | 34 | 36 | 25 | 22 | 28 | 28 | 33 | 25 | 18 | 32 | 42 | 43 | 26 | 16 | 10 | 23 | 23 | 20 | 16   | 25.6 |      |      |
| Genesee.....       | Maximum | 37 | 34 | 46 | 45 | 40 | 37 | 40 | 25 | 36 | 40 | 46 | 53 | 43 | 52 | 33 | 41 | 46 | 43 | 50 | 40 | 38 | 47 | 49 | 55 | 46 | 33 | 38 | 43 | 45 | 36 | 35   | 41.7 |      |      |
|                    | Minimum | 30 | 22 | 29 | 28 | 20 | 15 | 21 | 1  | 20 | 34 | 33 | 39 | 23 | 33 | 28 | 25 | 21 | 20 | 32 | 25 | 19 | 38 | 45 | 42 | 25 | 15 | 7  | 25 | 20 | 15 | 26   | 25.0 |      |      |
| Gettysburg.....    | Maximum | 55 | 41 | 48 | 50 | 50 | 46 | 45 | 34 | 34 | 44 | 45 | 65 | 57 | 60 | 47 | 49 | 46 | 53 | 60 | 50 | 43 | 49 | 57 | 54 | 53 | 38 | 44 | 36 | 47 | 43 | 38   | 47.8 |      |      |
|                    | Minimum | 41 | 33 | 24 | 35 | 34 | 27 | 32 | 18 | 25 | 32 | 35 | 44 | 45 | 44 | 35 | 25 | 27 | 33 | 42 | 42 | 28 | 41 | 48 | 46 | 37 | 26 | 19 | 24 | 31 | 29 | 33.3 |      |      |      |
| Greensburg.....    | Maximum | 45 | 40 | 53 | 50 | 44 | 41 | 35 | 34 | 49 | 49 | 60 | 60 | 60 | 60 | 39 | 45 | 52 | 51 | 58 | 55 | 58 | 62 | 50 | 60 | 58 | 37 | 44 | 43 | 42 | 39 | 44   | 48.9 |      |      |
|                    | Minimum | 35 | 26 | 21 | 38 | 32 | 27 | 25 | 15 | 31 | 39 | 40 | 48 | 42 | 39 | 30 | 28 | 29 | 29 | 39 | 43 | 31 | 49 | 45 | 50 | 30 | 23 | 19 | 31 | 35 | 21 | 32   | 33.0 |      |      |
| Grove City.....    | Maximum | 45 | 43 | 47 | 43 | 40 | 38 | 33 | 28 | 44 | 44 | 55 | 55 | 56 | 57 | 46 | 41 | 45 | 42 | 47 | 44 | 51 | 49 | 48 | 57 | 55 | 36 | 37 | 42 | 40 | 40 | 38   | 44.7 |      |      |
|                    | Minimum | 35 | 26 | 20 | 30 | 26 | 21 | 21 | 17 | 26 | 34 | 37 | 57 | 32 | 32 | 27 | 26 | 25 | 24 | 37 | 36 | 29 | 46 | 43 | 45 | 28 | 20 | 18 | 30 | 32 | 18 | 30   | 29.3 |      |      |
| Hamburg.....       | Maximum | 55 | 50 | 45 | 44 | 42 | 37 | 40 | 40 | 40 | 46 | 52 | 62 | 59 | 51 | 40 | 50 | 48 | 44 | 58 | 50 | 43 | 56 | 58 | 57 | 54 | 43 | 40 | 46 | 43 | 46 | 47   | 47.9 |      |      |
|                    | Minimum | 33 | 29 | 26 | 30 | 24 | 19 | 20 | 16 | 28 | 32 | 36 | 39 | 38 | 39 | 36 | 20 | 23 | 26 | 36 | 39 | 25 | 34 | 39 | 44 | 24 | 20 | 20 | 21 | 20 | 21 | 21   | 28.3 |      |      |
| Harrisburg.....    | Maximum | 47 | 43 | 48 | 50 | 48 | 44 | 42 | 31 | 34 | 45 | 46 | 62 | 50 | 57 | 41 | 49 | 50 | 48 | 60 | 52 | 41 | 54 | 57 | 58 | 55 | 39 | 40 | 37 | 48 | 45 | 37   | 47.0 |      |      |
|                    | Minimum | 38 | 33 | 27 | 37 | 28 | 25 | 27 | 22 | 25 | 33 | 39 | 42 | 42 | 41 | 31 | 29 | 34 | 38 | 42 | 31 | 30 | 39 | 48 | 49 | 32 | 28 | 24 | 29 | 32 | 29 | 33.4 |      |      |      |
| Hawley.....        | Maximum | 49 | 37 | 50 | 42 | 44 | 38 | 38 | 28 | 32 | 38 | 40 | 59 | 47 | 54 | 60 | 43 | 51 | 47 | 53 | 47 | 37 | 46 | 57 | 54 | 52 | 29 | 34 | 40 | 38 | 38 | 36   | 43.8 |      |      |
|                    | Minimum | 37 | 26 | 5  | 23 | 24 | 9  | 27 | 9  | 17 | 31 | 33 | 39 | 30 | 36 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION,  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVI.

ANNUAL SUMMARY, 1931.

No. 13.

GENERAL SUMMARY.

The year as a whole was abnormally warm and dry. The mean temperature of 52.8° was the highest in 44 years records with the single exception of 1921 with a mean of 53.1°. March and April were the only months to show a temperature deficiency, and their departures were small. The precipitation was about 8.5 inches more than that of the preceding year, but was still about 5.0 inches below the normal. May and July were the only months with an excess of rainfall. The average snowfall of 22.5 inches was just a little more than one-half of the normal, and was the least for any year of record. January gave an excess in temperature of about two degrees. The cold periods were of short duration, and there were no cold waves. The rainfall and the snowfall were less than one-half of the normal, and the fields were bare of snow cover the greater portion of the time. February was a little warmer than January, and showed an excess of nearly four degrees. Frost did not penetrate the ground deeply at any time. The precipitation was two-thirds of the February normal with the snowfall a little more than one-half of the normal. March lined up a little better with a moderate deficiency in both temperature and precipitation, while the snowfall was close to the March average. However, across the southern portion of the State the fields were free from snow most of the time with little frost in the ground, and considerable plowing was done. April was approximately normal in all respects, and was favorable for agriculture with the exception of a cold period and widespread frosts near the close of the month. Heavy snows occurred in the northern tier of counties on the 6th and 7th, but melted quickly. May was nearly normal in temperature, but furnished the largest excess in rainfall of any month during the year. These rains were generally needed, and were very beneficial. The winter grains, which had been considered as poor to fair, made a rapid growth and a wonderful improvement. June was a generally favorable month. The greatest deficiencies in rainfall occurred where the May rains were heaviest. The winter grains filled well and ripened rapidly, and gave every indication of bumper crops. A heavy cutting of alfalfa was secured with small losses. July was excessively hot and the rainfall was moderately heavy, coming largely as severe thundershowers that did considerable damage in some places. Wheat harvest began early in the month, and proved to be a heavy crop. Corn grew rapidly and at the close of the month it was rated above the ten-year average. Early potatoes were good to excellent, while the fruit crop was the most promising for many years. These favorable conditions were followed by a hot and dry fall that was decidedly unfavorable for late crops and late feed. From September to December inclusive the temperatures averaged the highest for any corresponding period of record. September temperatures were constantly above the normal from the 1st to the 24th inclusive, and maximum temperatures above 100° were recorded at about one-half of the stations. The November mean was eight degrees above the normal, and the fifteen day period from the 9th to the 25th inclusive averaged nearly fifteen degrees above the normal. It was the warmest November of record. December was abnormally warm, but was not a record breaker as its mean of 38.1° has been exceeded three times. The snowfall was very light, averaging only 1.1 inches.

COMPARATIVE ANNUAL DATA FOR THE STATE

| Year | Temperature |         |        |                       |                  | Year | Temperature |         |        |                       |                  |
|------|-------------|---------|--------|-----------------------|------------------|------|-------------|---------|--------|-----------------------|------------------|
|      | Mean        | Highest | Lowest | Average precipitation | Average snowfall |      | Mean        | Highest | Lowest | Average precipitation | Average snowfall |
| 1888 | 47.9        | 100     | -31    | 45.91                 | .....            | 1910 | 49.8        | 99      | -22    | 38.99                 | 66.5             |
| 1889 | 49.8        | 96      | -27    | 52.67                 | .....            | 1911 | 51.1        | 105     | -18    | 45.52                 | 39.2             |
| 1890 | 50.5        | 101     | -18    | 51.28                 | .....            | 1912 | 49.0        | 100     | -35    | 44.13                 | 38.6             |
| 1891 | 50.6        | 100     | -14    | 45.65                 | .....            | 1913 | 51.7        | 102     | -9     | 43.25                 | 24.2             |
| 1892 | 49.3        | 103     | -28    | 41.30                 | .....            | 1914 | 49.3        | 101     | -28    | 38.24                 | 66.4             |
| 1893 | 48.7        | 102     | -25    | 44.26                 | .....            | 1915 | 50.1        | 99      | -26    | 44.26                 | 43.4             |
| 1894 | 51.3        | 103     | -28    | 43.69                 | .....            | 1916 | 49.6        | 103     | -31    | 40.98                 | 52.8             |
| 1895 | 49.4        | 104     | -26    | 33.51                 | .....            | 1917 | 47.5        | 105     | -29    | 41.71                 | 45.6             |
| 1896 | 50.5        | 101     | -21    | 41.95                 | .....            | 1918 | 49.2        | 108     | -34    | 41.25                 | 41.4             |
| 1897 | 50.0        | 103     | -25    | 42.73                 | .....            | 1919 | 51.1        | 104     | -23    | 46.66                 | 24.1             |
| 1898 | 51.3        | 107     | -16    | 45.49                 | .....            | 1920 | 49.4        | 99      | -21    | 40.63                 | 41.7             |
| 1899 | 50.0        | 101     | -39    | 40.93                 | .....            | 1921 | 53.1        | 104     | -15    | 41.80                 | 30.9             |
| 1900 | 51.5        | 104     | -23    | 37.31                 | .....            | 1922 | 51.4        | 100     | -19    | 34.88                 | 38.5             |
| 1901 | 49.4        | 107     | -22    | 45.54                 | .....            | 1923 | 50.4        | 103     | -20    | 39.17                 | 40.9             |
| 1902 | 49.6        | 100     | -24    | 47.29                 | .....            | 1924 | 48.7        | 102     | -25    | 43.26                 | 44.7             |
| 1903 | 49.6        | 99      | -17    | 46.27                 | .....            | 1925 | 50.5        | 104     | -29    | 37.72                 | 44.2             |
| 1904 | 47.5        | 99      | -42    | 40.44                 | 50.8             | 1926 | 48.7        | 105     | -20    | 43.11                 | 49.8             |
| 1905 | 49.4        | 99      | -25    | 43.34                 | 40.9             | 1927 | 50.9        | 100     | -24    | 47.30                 | 30.3             |
| 1906 | 50.8        | 99      | -21    | 42.78                 | 45.0             | 1928 | 50.5        | 99      | -23    | 42.06                 | 37.8             |
| 1907 | 48.5        | 98      | -23    | 45.45                 | 54.5             | 1929 | 50.5        | 101     | -20    | 44.21                 | 36.7             |
| 1908 | 50.9        | 104     | -29    | 39.58                 | 54.4             | 1930 | 51.2        | 108     | -24    | 28.82                 | 27.6             |
| 1909 | 50.2        | 100     | -19    | 37.38                 | .....            | 1931 | 52.8        | 105     | -16    | 37.36                 | 22.5             |

MONTHLY STATE DATA FOR 1931

| Month     | Temperature |                   |                  |         |        | Precipitation |          |       |                     |              |
|-----------|-------------|-------------------|------------------|---------|--------|---------------|----------|-------|---------------------|--------------|
|           | Mean        | Highest sta. mean | Lowest sta. mean | Highest | Lowest | Average       | Greatest | Least | Greatest in 24 hrs. | Average snow |
| January   | 30.0        | 36.2              | 21.0             | 65      | -12    | 1.46          | 2.66     | 0.49  | 1.50                | 4.4          |
| February  | 31.9        | 37.4              | 21.8             | 66      | -16    | 1.98          | 3.61     | 0.87  | 1.40                | 5.2          |
| March     | 36.3        | 44.0              | 29.2             | 69      | 10     | 2.96          | 5.72     | 0.70  | 2.10                | 6.6          |
| April     | 48.4        | 54.6              | 41.4             | 85      | 16     | 3.33          | 5.93     | 1.00  | 1.80                | 2.3          |
| May       | 59.8        | 66.6              | 52.1             | 98      | 19     | 5.28          | 12.97    | 2.33  | 3.75                | T.           |
| June      | 68.5        | 74.6              | 61.6             | 102     | 28     | 3.71          | 8.08     | 1.23  | 3.35                | 0            |
| July      | 75.2        | 81.6              | 66.8             | 105     | 39     | 5.28          | 13.28    | 1.81  | 5.88                | 0            |
| August    | 71.1        | 78.2              | 64.0             | 104     | 40     | 4.01          | 8.78     | 1.30  | 5.18                | 0            |
| September | 69.1        | 76.8              | 61.8             | 104     | 29     | 3.15          | 6.65     | 0.74  | 2.65                | 0            |
| October   | 55.7        | 64.4              | 48.5             | 93      | 20     | 1.83          | 4.30     | 0.20  | 2.11                | T.           |
| November  | 49.2        | 54.0              | 42.5             | 80      | 12     | 1.52          | 4.42     | 0.36  | 1.50                | 2.9          |
| December  | 38.1        | 44.6              | 30.6             | 70      | -1     | 2.85          | 5.49     | 1.27  | 1.60                | 1.1          |
| Year      | 52.8        | 81.6              | 21.0             | 105     | -16    | 37.36         | 13.28    | 0.20  | 5.88                | 22.5         |

KILLING FROSTS OR FREEZING TEMPERATURE

| Stations       |                 |          | Stations        |                 |          |
|----------------|-----------------|----------|-----------------|-----------------|----------|
| Last in spring | First in autumn |          | Last in spring  | First in autumn |          |
| Allentown      | May 1           | Oct. 13  | Huntingdon      | May 5           | Oct. 19  |
| Altoona        | do. 4           | do. 12   | Hyndman         | do. 4           | do. 13   |
| Ardmore        | Apr. 30         | do. 19   | Johnstown       | do. 4           | do. 13   |
| Beaver Dam     | May 4           | do. 18   | Lancaster       | do. 5           | do. 13   |
| Bellefonte     | do. 4           | do. 12   | Lawrenceville   | do. 6           | Sept. 29 |
| Bradford       | do. 28          | Sept. 29 | Lebanon         | do. 1           | Oct. 13  |
| Brookville     | June 3          | do. 30   | Lock Haven      | do. 4           | do. 13   |
| Butler         | May 5           | Oct. 10  | Lykens          | do. 5           | do. 10   |
| Carlisle       | do. 5           | do. 13   | Mauch Chunk     | do. 4           | do. 13   |
| Catawissa      | do. 11          | do. 13   | Meadville       | do. 4           | do. 12   |
| Chambersburg   | do. 4           | do. 13   | Mifflintown     | do. 4           | do. 13   |
| Chambersville  | do. 4           | do. 18   | Montrose        | do. 24          | Sept. 1  |
| Claysville     | do. 24          | Sept. 29 | Muncy Valley    | do. 18          | do. 29   |
| Clearfield     | do. 5           | do. 29   | Neshaminy Falls | do. 5           | Oct. 13  |
| Coatesville    | do. 4           | Nov. 25  | Newell          | do. 4           | do. 19   |
| Corry          | do. 27          | Sept. 29 | Philadelphia    | Mar. 12         | Nov. 7   |
| Cloudersport   | June 2          | do. 29   | Phoenixville    | May 1           | Oct. 19  |
| Elk Lick       | May 24          | do. 30   | Pittsburgh      | do. 4           | do. 19   |
| Emporium       | do. 18          | Oct. 12  | Quakertown      | do. 5           | do. 13   |
| Ephrata        | Apr. 30         | do. 13   | Reading         | Apr. 30         | do. 13   |
| Erie           | do. 12          | Nov. 27  | Ridgway         | June 2          | Sept. 29 |
| Franklin       | May 5           | Oct. 11  | Scranton        | May 1           | Oct. 13  |
| Freeland       | do. 24          | do. 18   | Selinsgrove     | do. 4           | do. 13   |
| Genesee        | June 2          | Sept. 29 | Sharon          | do. 4           | do. 12   |
| George School  | May 4           | Oct. 13  | Shawmont        | Apr. 30         | Nov. 7   |
| Gettysburg     | Apr. 30         | do. 13   | Somerset        | May 6           | Sept. 29 |
| Gordon         | May 18          | Sept. 29 | Stroudsburg     | do. 4           | Oct. 13  |
| Gouldsboro     | do. 24          | Oct. 10  | Towanda         | do. 18          | do. 13   |
| Greensburg     | do. 4           | do. 19   | Uniontown       | do. 4           | do. 19   |
| Greenville     | do. 24          | do. 10   | Vandergrift     | do. 4           | do. 13   |
| Grove City     | do. 23          | do. 19   | Warren          | do. 2           | do. 12   |
| Hamburg        | do. 5           | do. 13   | Waynesburg      | .....           | do. 19   |
| Hanover        | Apr. 30         | do. 13   | Wellsboro       | May 18          | Sept. 25 |
| Harrisburg     | Mar. 14         | Nov. 7   | West Chester    | May 22          | Nov. 7   |
| Hawley         | May 18          | Oct. 10  | Williamsport    | May 4           | Oct. 13  |
| Holtwood       | Mar. 24         | Nov. 7   | York            | do. 4           | do. 13   |



## Climatological Data for the Year 1931

| STATION            | Counties     | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |          |        |          | Length of record, years | Precipitation (inches) |                  |       |               |       |                   | Total snowfall (unmelted) | Number days with .01 or more | Sky                       |                    |       | Prevailing direction of wind |
|--------------------|--------------|-----------------|----------------------------------|-------------|---------|----------|--------|----------|-------------------------|------------------------|------------------|-------|---------------|-------|-------------------|---------------------------|------------------------------|---------------------------|--------------------|-------|------------------------------|
|                    |              |                 | Length of record, years          | Annual mean | Highest | Date     | Lowest | Date     |                         | Total for the year     | Greatest monthly | Month | Least monthly | Month | Number clear days |                           |                              | Number partly cloudy days | Number cloudy days |       |                              |
| Atlantic Drainage. |              |                 |                                  |             |         |          |        |          |                         |                        |                  |       |               |       |                   |                           |                              |                           |                    |       |                              |
| Allentown          | Lehigh       | 254             | 9                                | 52.9        | 97      | June 20† | 10     | Feb. 1†  | 19                      | 36.34                  | 8.92             | July  | 0.43          | Nov.  | 9.0               | 120                       | 215                          | 70                        | 80                 | ne    |                              |
| Altoona            | Blair        | 1,615           | 35                               | 52.1        | 98      | July 1   | 4      | Jan. 22  | 44                      | 39.33                  | 5.55             | May   | 1.45          | Jan.  | 25.2              | 133                       | 228                          | 78                        | 59                 | nw    |                              |
| Arendtsville       | Adams        | 700             | 9                                | 54.7        | 101     | June 30† | 9      | do. 16   | 9                       | 35.68                  | 6.08             | July  | 0.93          | Nov.  | 21.7              | 105                       | 202                          | 77                        | 86                 | sw    |                              |
| Bellefonte         | Center       | 1,050           | 14                               | 50.4        | 99      | July 1   | -14    | Feb. 11  | 23                      | 31.41                  | 8.03             | May   | 0.90          | do.   | 25.2              | 123                       | 74                           | 108                       | 183                | sw    |                              |
| Bethlehem          | Northampton  | 364             | 28                               | 55.6        | 98      | do. 1    | 10     | do. 3    | 46                      | 33.44                  | 6.22             | July  | 0.71          | do.   | 13.3              | 123                       | 182                          | 30                        | 153                | w     |                              |
| Carlisle           | Cumberland   | 467             | 65                               | 55.0        | 102     | do. 1†   | 10     | Jan. 3†  | 42                      | 35.63                  | 6.27             | do.   | 0.79          | do.   | 24.3              | 111                       | 190                          | 69                        | 106                | nw.   |                              |
| Catawissa          | Columbia     | 520             | 35                               | 54.0        | 103     | do. 1    | -5     | Feb. 11  | 35                      | 28.97                  | 6.09             | May   | 0.41          | do.   | 15.6              | 99                        | 201                          | 50                        | 114                | ..... |                              |
| Center Hall        | Center       | 1,272           | 30                               | 49.7        | 100     | do. 1    | 0      | do. 11   | 35                      | 49.77                  | 13.28            | July  | 0.52          | Oct.  | 32.4              | 93                        | 209                          | 43                        | 113                | ..... |                              |
| Chambersburg       | Franklin     | 580             | 32                               | 55.8        | 102     | do. 1    | 12     | Jan. 2   | 35                      | 34.42                  | 7.95             | do.   | 0.72          | do.   | 12.1              | 122                       | 117                          | 150                       | 98                 | sw.   |                              |
| Colebrook          | Clearfield   | 1,120           | 21                               | 52.7        | 103     | do. 1    | 0      | Feb. 11  | 24                      | 45.19                  | 6.16             | do.   | 1.06          | Jan.  | 64.8              | 131                       | 145                          | 131                       | 89                 | w.    |                              |
| Coatesville        | Chester      | 380             | 44                               | 54.7        | 98      | do. 1    | 11     | Jan. 15  | 44                      | 42.37                  | 7.80             | do.   | 0.74          | Nov.  | 17.3              | 109                       | 184                          | 45                        | 136                | nw.   |                              |
| Colebrook          | Lebanon      | 560             | 16                               | 52.3        | 96      | do. 1    | 3      | do. 16   | 22                      | 36.45                  | 7.25             | do.   | 0.82          | do.   | 20.0              | 115                       | 183                          | 54                        | 128                | w     |                              |
| Emporium           | Cameron      | 1,050           | 44                               | 50.2        | 96      | do. 2    | -3     | Feb. 11  | 44                      | 45.17                  | 7.46             | do.   | 0.88          | Oct.  | 25.0              | 128                       | 117                          | 123                       | 125                | w     |                              |
| Ephrata            | Lancaster    | 380             | 31                               | 54.7        | 96      | do. 1†   | 12     | Jan. 15  | 39                      | 36.29                  | 5.96             | do.   | 0.60          | Nov.  | 17.0              | 91                        | 164                          | 71                        | 130                | s.    |                              |
| Freeland           | Luzerne      | 1,970           | 38                               | 49.7        | 44      | do. 1†   | 1      | Feb. 11  | 38                      | 38.13                  | 6.31             | May   | 1.16          | do.   | 59.5              | 163                       | 106                          | 114                       | 145                | nw.   |                              |
| George School      | Bucks        | 190             | 25                               | 55.5        | 98      | do. 1    | 12     | Jan. 15† | 25                      | 39.54                  | 7.14             | July  | 0.92          | do.   | 6.8               | 112                       | 177                          | 91                        | 97                 | nw.   |                              |
| Gettysburg         | Adams        | 553             | 56                               | 55.7        | 98      | do. 1    | 10     | do. 16   | 58                      | 32.63                  | 5.44             | Mar.  | 0.70          | Oct.  | 14.9              | 120                       | 164                          | 87                        | 114                | s.    |                              |
| Gordon             | Schuylkill   | 840             | 28                               | 51.3        | 96      | do. 1†   | -2     | do. 14   | 28                      | 31.61                  | 4.48             | May   | 0.84          | Nov.  | 35.0              | 111                       | 181                          | 70                        | 114                | w.    |                              |
| Gouldsboro         | Wayne        | 1,875           | 8                                | 45.8        | 88      | do. 1†   | -13    | Feb. 3   | 17                      | 36.25                  | 5.98             | July  | 1.47          | Jan.  | 45.9              | 115                       | 211                          | 45                        | 109                | w.    |                              |
| Hamburg            | Berks        | 535             | 38                               | .....       | 101     | do. 1    | 7      | Jan. 14  | 38                      | 39.92                  | 7.12             | do.   | 1.22          | Nov.  | 17.8              | 103                       | .....                        | .....                     | .....              | ..... |                              |
| Hanover            | York         | 600             | 27                               | 57.0        | 100     | do. 1    | 12     | do. 16   | 27                      | 31.49                  | 4.19             | Aug.  | 0.56          | do.   | 15.6              | 126                       | 181                          | 64                        | 120                | s.    |                              |
| Harrisburg         | Dauphin      | 374             | 43                               | 55.4        | 100     | do. 1    | 14     | do. 15   | 62                      | 31.00                  | 3.89             | July  | 0.73          | do.   | 10.2              | 116                       | 114                          | 122                       | 129                | w.    |                              |
| Hawley             | Wayne        | 900             | 13                               | 49.6        | 96      | do. 1    | -16    | Feb. 11  | 13                      | 30.48                  | 5.22             | do.   | 0.78          | do.   | 46.7              | 133                       | 155                          | 119                       | 91                 | w.    |                              |
| Holtwood           | Lancaster    | 200             | 12                               | 57.8        | 104     | Aug. 8†  | 12     | Jan. 16  | 16                      | 27.46                  | 5.40             | Aug.  | 0.44          | do.   | 11.5              | 115                       | 138                          | 140                       | 87                 | ..... |                              |
| Huntingdon         | Huntingdon   | 650             | 44                               | 53.6        | 101     | July 1   | 2      | do. 2†   | 44                      | 41.34                  | 7.50             | May   | 0.88          | Oct.  | 12.5              | 110                       | 154                          | 102                       | 109                | w.    |                              |
| Hyndman            | Bedford      | 977             | 19                               | 55.0        | 105     | do. 2    | 7      | do. 16   | 19                      | 38.11                  | 7.60             | do.   | 0.70          | do.   | 6.3               | 129                       | 106                          | 62                        | 197                | ..... |                              |
| Lancaster          | Lancaster    | 255             | 28                               | 52.1        | 100     | do. 1    | 8      | do. 2†   | 44                      | 33.49                  | 5.73             | July  | 0.58          | Nov.  | 12.5              | 89                        | 224                          | 70                        | 71                 | w.    |                              |
| Lawrenceville      | Tioga        | 1,000           | 34                               | 50.2        | 100     | do. 1    | -15    | Feb. 11  | 34                      | 34.00                  | 6.87             | do.   | 0.50          | do.   | 35.0              | 100                       | 153                          | 113                       | 99                 | ..... |                              |
| Lebanon            | Lebanon      | 469             | 43                               | 54.6        | 102     | do. 1    | 11     | Jan. 15  | 47                      | 38.19                  | 7.51             | do.   | 0.93          | do.   | 12.8              | 127                       | 170                          | 98                        | 97                 | nw.   |                              |
| Lewisburg          | Union        | 450             | 55                               | 54.2        | 104     | do. 1    | -3     | Feb. 11  | 55                      | 32.35                  | 6.85             | May   | 0.62          | do.   | 18.0              | 114                       | 150                          | 77                        | 136                | w.    |                              |
| Lock Haven         | Clinton      | 580             | 41                               | 54.7        | 105     | do. 1    | -2     | do. 11   | 41                      | 36.14                  | 8.11             | do.   | 1.04          | Jan.  | 13.0              | 133                       | 118                          | 137                       | 110                | sw.   |                              |
| Lykens             | Dauphin      | 680             | 16                               | 53.4        | 104     | do. 1†   | 0      | Jan. 2   | 16                      | 34.45                  | 7.46             | July  | 0.83          | Nov.  | 15.5              | 130                       | 204                          | 84                        | 77                 | nw.   |                              |
| Mauch Chunk        | Carbon       | 600             | 42                               | 53.0        | 103     | do. 1    | 6      | Feb. 3   | 42                      | 35.38                  | 5.93             | do.   | 0.47          | do.   | 26.4              | 94                        | 198                          | 46                        | 121                | nw.   |                              |
| Mifflintown        | Juniata      | 445             | 28                               | 53.7        | 102     | do. 1    | 8      | Jan. 2   | 28                      | 31.44                  | 6.54             | May   | 0.77          | do.   | 15.5              | 114                       | 176                          | 44                        | 145                | w.    |                              |
| Montrose           | Susquehanna  | 1,658           | 28                               | 47.0        | 92      | do. 1†   | -9     | Feb. 3   | 28                      | 32.86                  | 6.42             | July  | 0.70          | Mar.  | 38.0              | 88                        | 149                          | 92                        | 124                | w.    |                              |
| Muncy Valley       | Sullivan     | 1,045           | 19                               | 49.5        | 99      | do. 1    | -7     | do. 11   | 19                      | 31.87                  | 6.87             | May   | 1.09          | Oct.  | 29.4              | 101                       | 202                          | 59                        | 94                 | w.    |                              |
| Neshaminy Falls    | Bucks        | 60              | 16                               | 53.8        | 98      | Aug. 7   | 10     | Jan. 23† | 16                      | 42.78                  | 8.15             | July  | 0.98          | Sept. | 6.7               | 121                       | 199                          | 40                        | 126                | e.    |                              |
| Palmerton          | Carbon       | 398             | 5                                | 52.3        | 97      | July 1   | 6      | do. 22   | 14                      | 32.43                  | 5.62             | do.   | 0.81          | Nov.  | 18.7              | 106                       | 165                          | 86                        | 114                | sw.   |                              |
| Philadelphia       | Philadelphia | 114             | 60                               | 58.1        | 98      | do. 1    | 16     | do. 15   | 60                      | 39.28                  | 7.99             | do.   | 1.00          | do.   | 3.2               | 107                       | 109                          | 119                       | 137                | sw.   |                              |
| Phila. Navy Yard   | Philadelphia | 12              | 15                               | 56.3        | 97      | Sept. 11 | 14     | do. 15   | 15                      | 36.25                  | 6.67             | do.   | 0.82          | do.   | 3.8               | 100                       | .....                        | .....                     | .....              | ..... |                              |
| Phoenixville       | Chester      | 100             | 21                               | 56.8        | 104     | Aug. 4   | 11     | do. 16   | 21                      | 43.05                  | 7.65             | May   | 0.72          | do.   | 10.1              | 88                        | 196                          | 106                       | 63                 | s.    |                              |
| Quakertown         | Bucks        | 496             | 44                               | 53.2        | 98      | do. 6    | 5      | do. 14   | 46                      | 38.03                  | 8.19             | July  | 0.71          | do.   | 8.8               | 111                       | 152                          | 93                        | 120                | nw.   |                              |
| Reading            | Berks        | 325             | 53                               | 55.6        | 99      | Sept. 12 | 13     | do. 15   | 59                      | 34.59                  | 4.86             | June  | 0.36          | do.   | 7.1               | 104                       | 121                          | 115                       | 129                | nw.   |                              |
| Scranton           | Lackawanna   | 805             | 36                               | 52.0        | 97      | July 1   | 2      | Feb. 3   | 37                      | 30.54                  | 8.74             | July  | 0.62          | do.   | 22.4              | 103                       | 92                           | 143                       | 130                | sw.   |                              |
| Selinsgrove        | Snyder       | 455             | 42                               | 53.4        | 101     | do. 1    | -3     | do. 11   | 42                      | 32.33                  | 5.52             | May   | 0.54          | do.   | 16.7              | 102                       | 161                          | 96                        | 112                | sw.   |                              |
| Shawmont           | Philadelphia | 51              | 13                               | 56.2        | 99      | do. 2    | 14     | Jan. 15† | 35                      | 36.53                  | 9.18             | July  | 0.94          | do.   | 9.1               | 103                       | 142                          | 107                       | 116                | nw.   |                              |
| State College      | Center       | 1,217           | 43                               | 52.0        | 98      | do. 1    | 7      | do. 15†  | 47                      | 34.31                  | 9.30             | May   | 0.96          | Oct.  | 23.4              | 113                       | 125                          | 145                       | 95                 | w.    |                              |
| Stroudsburg        | Monroe       | 500             | 15                               | 50.9        | 97      | June 20† | -7     | Feb. 11  | 16                      | 39.58                  | 8.05             | July  | 1.07          | Nov.  | 20.1              | 107                       | 149                          | 70                        | 146                | w.    |                              |
| Towanda            | Bradford     | 754             | 37                               | 50.1        | 95      | July 1   | -5     | do. 3    | 37                      | 33.28                  | 6.22             | do.   | 0.77          | do.   | 46.3              | 141                       | 115                          | 111                       | 139                | sw.   |                              |
| Wellsville         | Tioga        | 1,419           | 51                               | 49.4        | 99      | do. 1    | -13    | do. 11   | 61                      | 30.36                  | 5.80             | May   | 0.20          | Oct.  | 39.7              | 99                        | 184                          | 89                        | 92                 | w.    |                              |
| West Chester       | Chester      | 455             | 76                               | 55.3        | 95      | do. 1    | 11     | Jan. 15  | 82                      | 43.40                  | 9.16             | July  | 1.50          | Nov.  | 11.2              | 91                        | 181                          | 99                        | 85                 | w.    |                              |
| Williamsport       | Lycoming     | 521             | 42                               | 53.0        | 102     | do. 1    | 3      | Feb. 11  | 45                      | 33.35                  | 7.34             | May   | 0.80          | do.   | 25.9              | 141                       | 159                          | 45                        | 161                | w.    |                              |
| York               | York         | 400             | 32                               | 54.9        | 101     | do. 29   | 7      | Jan. 21  | 43                      | 31.52                  | 4.48             | do.   | 0.44          | do.   | 13.0              | 115                       | 177                          | 102                       | 86                 | w.    |                              |
| Ohio Drainage.     |              |                 |                                  |             |         |          |        |          |                         |                        |                  |       |               |       |                   |                           |                              |                           |                    |       |                              |
| Beaver Dam         | Beaver       | 700             | 18                               | 53.5        | 97      | July 2   | 7      | Jan. 22  | 39                      | 36.78                  | 5.71             | June  | 1.10          | Jan.  | .....             | 157                       | 89                           | 118                       | 158                | sw.   |                              |
| McKean             | McKean       | 1,460           | 14                               | 48.7        | 100     | do. 2    | -2     | Feb. 11† | 15                      | 39.09                  | 5.35             | July  | 1.36          | do.   | 35.5              | 152                       | 110                          | 85                        | 170                | sw.   |                              |
| Bradford           | Jefferson    | 1,173           | 20                               | 48.4        | 98      | do. 3    | -9     | Jan. 2   | 42                      | 37.74                  | 5.02             | Dec.  | 1.08          | Jo.   | 27.5              | 122                       | 196                          | 56                        | 113                | ..... |                              |
| Brookville         | Butler       | 1,077           | 8                                | 52.6        | 98      | do. 2    | 3      | do. 22   | 18                      | 40.30                  | 6.08             | Sept. | 1.00          | do.   | 27.3              | 113                       | 161                          | 104                       | 100                | w.    |                              |
| Chambersville      | Indiana      | 1,047           | 2                                | .....       | 98      | do. 2    | .....  | .....    | 6                       | 38.56                  | 4.40             | Apr.  | *1.13         | do.   | .....             | .....                     | .....                        | .....                     | .....              | ..... |                              |
| Claysville         | Washington   | 1,150           | 27                               | 54.3        | 101     | do. 1†   | 3      | Feb. 11  | 27                      | 37.57                  | 4.93             | Sept. | 0.76          | do.   | 13.1              | 146                       | 218                          | 37                        | 110                | w.    |                              |
| Corry              | Erie         | 1,430           | 19                               | 49.7        | 101     | do. 2    | -1     | do. 1†   | 20                      | 36.83                  | 4.93             | July  | 1.47          | Feb.  | 37.7              | 137                       |                              |                           |                    |       |                              |



## Monthly and Annual Precipitation for the Year 1931, with Departures from the Normal

| STATIONS                | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|-------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                         | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| DELAWARE BASIN.         |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Allentown.....          | 2.04          | -1.47     | 2.15          | -0.97     | 2.99          | -0.23     | 1.79          | -1.97     | 3.01          | -0.53     | 5.81          | +2.36     | 8.92          | +4.14     | 3.00          | -1.61     | 1.65          | -1.70     | 2.44          | -0.90     | 0.43          | -2.25     | 2.11          | -1.32     | 36.34         | -6.45     |
| Bethlehem.....          | 1.81          | -1.74     | 1.72          | -1.65     | 2.73          | -0.68     | 1.92          | -1.31     | 3.19          | -0.38     | 5.15          | +1.11     | 6.22          | +1.62     | 3.31          | -0.99     | 2.34          | -1.00     | 2.51          | -0.70     | 0.71          | -2.39     | 1.83          | -1.49     | 33.44         | -9.60     |
| Coatesville.....        | 2.49          | -1.48     | 1.92          | -2.04     | 5.65          | +1.47     | 2.73          | -1.04     | 7.04          | +3.10     | 2.99          | -1.08     | 7.80          | +2.98     | 5.20          | +0.83     | 2.03          | -1.81     | 1.58          | -1.83     | 0.74          | -2.41     | 2.30          | -1.61     | 42.33         | +4.92     |
| Conshohocken.....       | 0.90          | .....     | 2.00          | .....     | 3.32          | .....     | 2.28          | .....     | 3.61          | .....     | 3.29          | .....     | 10.45         | .....     | 4.11          | .....     | 0.98          | .....     | 1.82          | .....     | 1.06          | .....     | 2.13          | .....     | 35.95         | .....     |
| Doylestown.....         | 1.76          | -1.74     | 2.04          | -1.64     | 3.11          | -0.59     | 1.25          | -2.72     | 5.36          | +1.46     | 6.70          | +1.78     | 8.05          | +3.17     | 3.10          | -2.13     | 2.04          | -1.76     | 1.96          | -1.76     | 0.72          | -2.43     | 1.99          | -1.70     | 37.08         | -10.06    |
| Freeland.....           | 1.79          | -1.78     | 2.28          | -0.92     | 4.10          | +0.53     | 3.92          | -0.44     | 6.31          | +1.93     | 2.64          | -1.90     | 5.92          | +1.16     | 2.20          | -2.45     | 3.39          | -0.39     | 1.76          | -2.11     | 1.16          | -2.52     | 2.66          | -0.80     | 38.13         | -9.69     |
| George School.....      | 1.95          | -1.21     | 1.88          | -1.21     | 3.55          | +0.38     | 2.55          | -1.08     | 4.07          | +0.56     | 6.39          | +3.02     | 7.14          | +2.80     | 5.63          | +1.03     | 1.09          | -2.18     | 2.47          | -0.67     | 0.92          | -1.67     | 1.90          | -1.47     | 39.54         | -1.70     |
| Gouldsboro.....         | 1.47          | -1.72     | 1.87          | -1.23     | 4.07          | +1.03     | 3.88          | +0.07     | 5.57          | +1.40     | 2.94          | -2.05     | 5.98          | +0.96     | 2.32          | -2.02     | 1.83          | -1.81     | 1.98          | -1.85     | 1.83          | -1.44     | 2.61          | -0.32     | 36.25         | -8.98     |
| Graterford.....         | 1.96          | -1.10     | 1.99          | -1.26     | 3.02          | +0.19     | 2.59          | -1.02     | 4.87          | +1.82     | 5.80          | +2.34     | 10.51         | +6.05     | 4.40          | +0.83     | 1.75          | -0.85     | 2.96          | +0.42     | 0.83          | -1.86     | 2.07          | -0.65     | 42.75         | +4.91     |
| Hamburg.....            | 2.02          | -1.49     | 1.79          | -1.64     | 4.56          | +0.76     | 2.94          | -1.18     | 3.97          | -0.44     | 4.24          | +0.03     | 7.12          | +2.20     | 3.82          | -1.68     | 2.01          | -2.04     | 4.30          | +0.51     | 1.22          | -1.66     | 2.43          | -1.16     | 39.92         | -7.79     |
| Hawley.....             | 1.82          | -0.76     | 2.56          | +0.02     | 2.65          | -0.13     | 2.82          | -0.61     | 3.98          | -0.45     | 2.40          | -1.39     | 5.22          | +1.16     | 2.79          | -1.26     | 2.21          | -1.15     | 1.36          | -1.92     | 0.78          | -1.94     | 1.89          | -0.99     | 30.48         | -9.52     |
| Hollisterville.....     | 1.61          | .....     | 2.35          | .....     | 2.81          | .....     | 3.09          | .....     | 4.47          | .....     | 2.69          | .....     | 5.63          | .....     | 2.23          | .....     | 2.05          | .....     | 1.35          | .....     | 0.95          | .....     | 1.88          | .....     | 31.11         | .....     |
| Lakeville.....          | 1.65          | .....     | 2.44          | .....     | 3.37          | .....     | 3.28          | .....     | 3.80          | .....     | 2.80          | .....     | 5.88          | .....     | 2.00          | .....     | 2.52          | .....     | 1.29          | .....     | 0.93          | .....     | 1.80          | .....     | 31.76         | .....     |
| Lansford.....           | 1.26          | -1.88     | 1.59          | -1.17     | 2.85          | -0.15     | 2.80          | -0.76     | 5.44          | +1.85     | 2.53          | -2.03     | 5.01          | +0.71     | 5.40          | +1.02     | 2.11          | -1.71     | 1.74          | -2.35     | 0.52          | -2.20     | 2.35          | -0.99     | 33.60         | -9.66     |
| Marcus Hook.....        | 2.35          | .....     | 1.87          | .....     | 4.10          | .....     | 2.61          | .....     | 3.16          | .....     | 3.63          | .....     | 4.10          | .....     | 6.35          | .....     | 0.74          | .....     | 2.26          | .....     | 0.90          | .....     | 2.20          | .....     | 34.27         | .....     |
| Mauch Chunk.....        | 1.80          | -1.94     | 2.12          | -1.62     | 3.78          | -0.41     | 2.44          | -1.52     | 4.54          | +0.53     | 2.22          | -2.20     | 5.93          | +1.04     | 5.21          | +0.45     | 2.96          | -1.04     | 1.66          | -2.13     | 0.47          | -2.97     | 2.25          | -1.75     | 35.35         | -13.56    |
| Coatesville.....        | 2.08          | -1.15     | 1.65          | -1.37     | 3.84          | +0.31     | 1.88          | -2.12     | 5.04          | +1.05     | 4.25          | -1.00     | 6.47          | +1.30     | 5.33          | +1.09     | 1.82          | -3.14     | 0.80          | -4.06     | 1.59          | -1.42     | 1.47          | -2.11     | 36.22         | -12.62    |
| Mount Pocono.....       | 2.37          | -1.22     | 2.01          | -1.38     | 3.61          | +0.08     | 2.62          | -1.43     | 3.75          | -0.10     | 4.24          | +0.26     | 9.05          | +4.76     | 5.30          | -0.16     | 1.81          | -2.64     | 2.14          | -0.78     | 0.64          | -2.90     | 1.65          | -1.66     | 38.69         | -7.17     |
| Narberth.....           | 2.21          | -0.91     | 2.04          | -0.82     | 3.69          | +0.92     | 2.06          | -1.32     | 4.71          | +1.08     | 4.83          | +1.07     | 8.15          | +3.50     | 7.05          | +2.23     | 0.98          | -2.42     | 2.97          | -0.19     | 1.16          | -1.26     | 2.43          | -0.84     | 42.28         | +1.04     |
| Neshaminy Falls.....    | 1.44          | -1.13     | 1.54          | -0.69     | 3.00          | +0.41     | 2.82          | -0.40     | 3.79          | -0.06     | 1.52          | -2.71     | 5.62          | +1.31     | 3.88          | +0.17     | 2.84          | -0.63     | 3.19          | +0.05     | 0.81          | -2.08     | 1.98          | -0.37     | 32.43         | -6.13     |
| Palmerston.....         | 1.75          | -0.89     | 2.51          | -0.11     | 2.64          | -0.47     | 3.27          | -0.61     | 4.05          | +0.47     | 3.07          | -0.91     | 7.58          | +3.34     | 2.89          | -1.77     | 1.91          | -2.11     | 1.49          | -2.31     | 0.82          | -2.10     | 1.70          | -1.25     | 33.68         | -8.72     |
| Paupack.....            | 2.17          | -1.13     | 1.92          | -1.40     | 3.97          | +0.58     | 2.05          | -1.00     | 4.44          | +1.18     | 3.75          | +0.51     | 7.99          | +3.84     | 6.00          | +1.38     | 1.60          | -1.54     | 2.61          | -0.20     | 1.00          | -1.70     | 1.78          | -1.65     | 39.28         | -1.13     |
| Philadelphia.....       | 2.26          | .....     | 1.74          | .....     | 3.81          | .....     | 2.12          | .....     | 3.79          | .....     | 4.64          | .....     | 9.65          | .....     | 6.37          | .....     | 1.73          | .....     | 3.26          | .....     | 0.85          | .....     | 2.18          | .....     | 42.40         | .....     |
| Philadelphia-Gtn.....   | 2.12          | -0.99     | 1.76          | -1.60     | 3.68          | +0.66     | 2.16          | -1.23     | 3.54          | +0.33     | 3.55          | -0.26     | 6.57          | +1.65     | 6.11          | +1.57     | 1.57          | -1.58     | 2.59          | -0.05     | 0.82          | -1.53     | 1.78          | -1.32     | 36.25         | -4.45     |
| Phila. Navy Yard.....   | 2.04          | .....     | 1.75          | .....     | 3.64          | .....     | 2.03          | .....     | 5.29          | .....     | 3.66          | .....     | 6.92          | .....     | 5.78          | .....     | 1.36          | .....     | 2.74          | .....     | 0.98          | .....     | 2.15          | .....     | 38.39         | .....     |
| Phila-Point Breeze..... | 2.20          | -1.46     | 2.03          | -1.23     | 3.95          | +0.64     | 3.21          | -0.82     | 7.55          | +3.59     | 3.46          | -0.15     | 8.58          | +3.68     | 5.60          | +0.94     | 1.98          | -1.27     | 1.89          | -1.28     | 0.72          | -2.15     | 1.88          | -1.24     | 43.05         | -0.25     |
| Phoenixville.....       | 2.66          | .....     | 2.63          | .....     | 3.12          | .....     | 3.78          | .....     | 6.23          | .....     | 3.05          | .....     | 9.78          | .....     | 2.71          | .....     | 3.08          | .....     | 2.52          | .....     | 0.37          | .....     | 2.51          | .....     | 42.99         | .....     |
| Pleasant Mount.....     | 2.45          | -0.91     | 1.47          | -1.97     | 4.27          | +0.72     | 2.74          | -0.53     | 4.87          | +0.74     | 5.78          | +2.02     | 6.32          | +1.29     | 4.97          | +0.96     | 2.49          | -0.78     | 3.44          | +0.34     | 1.16          | -1.87     | 1.76          | -1.68     | 41.72         | -1.67     |
| Pottstown.....          | 1.91          | -1.93     | 2.14          | -1.45     | 4.59          | +0.68     | 2.47          | -1.21     | 4.38          | +0.04     | 2.94          | -1.48     | 5.10          | +0.26     | 4.02          | -0.84     | 1.39          | -2.61     | 1.50          | -2.48     | 0.97          | -2.38     | 1.58          | -2.27     | 32.99         | -15.67    |
| Pottsville.....         | 1.94          | -1.54     | 1.44          | -2.20     | 2.84          | -0.69     | 2.37          | -0.98     | 3.32          | -0.65     | 5.52          | +1.90     | 8.19          | +3.23     | 4.01          | -0.36     | 2.70          | -0.91     | 2.43          | -0.91     | 0.71          | -2.43     | 2.56          | -0.88     | 38.08         | -6.42     |
| Quakertown.....         | 2.16          | -1.41     | 1.90          | -1.52     | 4.35          | +0.83     | 1.91          | -1.36     | 3.66          | -0.01     | 4.86          | +1.31     | 4.55          | +0.29     | 4.72          | +0.51     | 2.79          | -0.42     | 2.06          | -1.06     | 0.36          | -2.37     | 1.27          | -2.29     | 34.59         | -7.50     |
| Reading.....            | 2.17          | -1.11     | 1.71          | -1.56     | 3.46          | +0.05     | 2.20          | -1.10     | 2.98          | -0.34     | 4.18          | +0.69     | 9.18          | +4.82     | 4.82          | -0.21     | 1.34          | -1.94     | 1.63          | -1.53     | 0.94          | -1.88     | 1.92          | -1.65     | 36.58         | -5.76     |
| Shawmont.....           | 2.50          | .....     | 2.23          | .....     | 2.72          | .....     | 2.96          | .....     | 3.71          | .....     | 3.13          | .....     | 5.80          | .....     | 3.87          | .....     | 2.26          | .....     | 1.28          | .....     | 1.06          | .....     | 2.22          | .....     | 33.74         | .....     |
| Snow Hill.....          | 2.39          | -0.72     | 2.63          | -0.36     | 3.15          | -0.50     | 2.46          | -1.60     | 3.49          | 0.00      | 4.74          | +0.24     | 8.05          | +2.88     | 5.58          | -1.39     | 3.16          | +0.27     | 2.26          | -1.45     | 1.07          | -2.21     | 2.60          | -0.73     | 39.58         | -5.57     |
| Stroudsburg.....        | 1.73          | -2.06     | 2.17          | -1.65     | 3.69          | -0.20     | 2.56          | -1.23     | 6.15          | +1.83     | 4.73          | +0.46     | 9.16          | +4.46     | 6.75          | +2.12     | 1.56          | -2.33     | 1.54          | -2.10     | 1.50          | -2.03     | 1.86          | -2.04     | 43.40         | -4.77     |
| West Chester.....       | 1.91          | .....     | 2.21          | .....     | 3.95          | .....     | 1.89          | .....     | 6.53          | .....     | 2.80          | .....     | 8.42          | .....     | 6.29          | .....     | 0.90          | .....     | 1.44          | .....     | 0.91          | .....     | 2.14          | .....     | 39.39         | .....     |
| Westgrove.....          | 1.45          | -1.13     | 1.91          | -0.30     | 4.15          | +1.43     | 4.17          | +1.04     | 5.55          | +1.61     | 3.88          | +0.02     | 4.36          | +0.82     | 3.82          | -0.01     | 3.75          | +0.88     | 1.62          | -1.05     | 2.24          | +0.01     | 2.93          | +0.51     | 39.33         | +3.83     |
| Altoona.....            | 1.05          | -1.05     | 1.69          | -0.22     | 1.97          | -0.17     | 2.81          | -0.68     | 5.43          | +1.77     | 2.97          | -0.97     | 5.12          | +1.94     | 3.11          | -0.29     | 3.12          | -0.03     | 1.11          | -1.82     | 1.31          | -0.83     | 2.60          | +0.70     | 32.29         | -1.67     |
| Ansonia.....            | 1.63          | .....     | 1.59          | .....     | 5.44          | .....     | 2.85          | .....     | 4.54          | .....     | 2.71          | .....     | 6.08          | .....     | 2.82          | .....     | 3.42          | .....     | 0.78          | .....     | 0.93          | .....     | 2.89          | .....     | 35.68         | .....     |
| Arendtsville.....       | 1.32          | .....     | 2.31          | .....     | 3.60          | .....     | 4.03          | .....     | 5.27          | .....     | 4.31          | .....     | 5.80          | .....     | 3.82          | .....     |               |           |               |           |               |           |               |           |               |           |



Monthly and Annual Precipitation for the Year 1931, with Departures from the Normal.—Continued

| STATIONS                  | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July           |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|---------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|----------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                           | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation. | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| Claysville.....           | 0.76          | -2.54     | 2.73          | +0.22     | 2.41          | -0.92     | 3.95          | +0.49     | 3.75          | +0.13     | 3.07          | -1.34     | 4.31           | +0.13     | 3.70          | -0.09     | 4.93          | +1.72     | 1.90          | -1.39     | 2.71          | +0.29     | 3.35          | +0.37     | 37.57         | -2.93     |
| Clymer.....               | 0.88          | -2.51     | 2.82          | -0.27     | 2.50          | -0.77     | 4.65          | +0.69     | 4.22          | 0.00      | 3.64          | -1.61     | 4.95           | -0.57     | 5.30          | +1.43     | 5.18          | +1.62     | 1.77          | -1.33     | 2.00          | -1.33     | 4.39          | +1.32     | 42.30         | -3.33     |
| Confluence.....           | 1.31          | -2.66     | 2.19          | -1.20     | 3.02          | -0.77     | 4.09          | +0.52     | 5.76          | +1.79     | 4.29          | -0.29     | 6.25           | +1.58     | 4.44          | +0.43     | 4.82          | +1.71     | 2.16          | -0.82     | 1.87          | -1.11     | 4.61          | +1.12     | 44.81         | +0.30     |
| Corry.....                | 1.70          | -1.76     | 1.47          | -1.78     | 2.93          | -0.41     | 3.45          | -0.22     | 4.75          | +0.47     | 2.64          | -2.68     | 4.93           | +1.30     | 2.41          | -1.19     | 2.76          | -1.22     | 2.19          | -1.84     | 4.42          | +0.20     | 3.18          | -0.25     | 36.83         | -9.38     |
| Coudersport.....          | 1.74          | .....     | 1.84          | .....     | 3.03          | .....     | 4.19          | .....     | 7.80          | .....     | 5.38          | .....     | 6.09           | .....     | 2.58          | .....     | 3.64          | .....     | 1.03          | .....     | 2.26          | .....     | 4.08          | .....     | 43.66         | .....     |
| Cresson.....              | 1.52          | -2.09     | 2.16          | -1.30     | 3.22          | +0.11     | 4.14          | -0.13     | 5.48          | +1.53     | 4.10          | -0.20     | 3.47           | -1.88     | 3.57          | +0.46     | 5.59          | +2.43     | 2.32          | -0.60     | 1.75          | -1.59     | 2.95          | -0.26     | 40.27         | -3.52     |
| Derry.....                | 1.17          | -2.71     | 2.60          | -0.54     | 2.64          | -1.24     | 4.70          | +0.92     | 4.72          | +1.12     | 4.11          | -0.78     | 2.70           | -1.86     | 5.79          | +1.76     | 5.66          | +2.55     | 2.35          | -0.83     | 2.47          | -0.26     | 3.17          | -0.11     | 42.08         | -1.98     |
| Donora.....               | 1.01          | .....     | 2.44          | .....     | 2.09          | .....     | 3.83          | .....     | 5.39          | .....     | 3.64          | .....     | 4.02           | .....     | 3.79          | .....     | 3.46          | .....     | 2.49          | .....     | 1.57          | .....     | 2.66          | .....     | 36.39         | .....     |
| Ebensburg.....            | 0.78          | -2.36     | 2.16          | -0.72     | 1.78          | -0.88     | 2.88          | -0.62     | 7.25          | +3.17     | 2.85          | -1.85     | 3.51           | -0.63     | 3.92          | 0.00      | 5.74          | +2.23     | 2.05          | -1.40     | 2.04          | -1.17     | 3.22          | +0.68     | 38.18         | -3.55     |
| Elk Lick.....             | 1.77          | -1.89     | 3.61          | +0.23     | 4.65          | +1.39     | 4.33          | +0.29     | 4.64          | +0.64     | 2.98          | -2.63     | 6.55           | +2.43     | 4.80          | +0.35     | 5.83          | +2.79     | 2.54          | -1.07     | 2.86          | -0.29     | 5.49          | +2.40     | 50.05         | +4.64     |
| Falls Creek.....          | 1.31          | -1.97     | 2.40          | -0.38     | 2.68          | -0.27     | 3.77          | +0.27     | 6.87          | +2.88     | 3.67          | -1.47     | 4.92           | +1.16     | 2.82          | -0.64     | 4.51          | +1.17     | 1.29          | -1.39     | 2.78          | -0.13     | 4.56          | +1.50     | 41.54         | -0.73     |
| Franklin.....             | 1.54          | -2.04     | 2.04          | -0.79     | 2.19          | -1.24     | 4.51          | +1.40     | 6.59          | +3.01     | 3.29          | -1.22     | 3.34           | -1.16     | 1.30          | -2.40     | 3.26          | -0.32     | 2.31          | -0.79     | 2.76          | -0.36     | 4.31          | +0.98     | 37.44         | -4.93     |
| Freeport.....             | 1.28          | -2.48     | 2.43          | -0.73     | 2.20          | -1.38     | 3.86          | +0.48     | 5.34          | +1.47     | 7.88          | +3.57     | 3.06           | -1.14     | 3.02          | -0.66     | 4.07          | +1.04     | 1.30          | -1.58     | 2.63          | -0.92     | 3.76          | +0.31     | 40.23         | -2.02     |
| Greensboro.....           | 0.86          | -2.66     | 2.40          | -0.54     | 2.87          | -0.63     | 5.02          | +1.87     | 6.19          | +2.44     | 4.57          | -0.05     | 6.27           | +1.70     | 6.04          | +1.39     | 5.37          | +2.33     | 2.85          | -0.02     | 2.43          | -0.38     | 4.20          | +1.15     | 48.07         | +6.65     |
| Greensburg.....           | 1.19          | -2.39     | 2.39          | -0.66     | 2.90          | -0.17     | 4.74          | +1.08     | 5.24          | +1.41     | 4.62          | +0.24     | 2.31           | -1.39     | 5.74          | +1.79     | 5.92          | +2.71     | 2.63          | -0.51     | 1.94          | -0.54     | 3.49          | +0.37     | 43.15         | +1.94     |
| Greenville.....           | 1.22          | -2.29     | 1.99          | -0.55     | 1.29          | -2.21     | 3.27          | -0.14     | 5.01          | +1.43     | 1.23          | -2.75     | 2.72           | -1.56     | 3.49          | +0.09     | 3.59          | +0.12     | 2.89          | -0.54     | 2.57          | -0.50     | 3.61          | +0.71     | 32.88         | -8.19     |
| Grove City.....           | 1.06          | -2.24     | 2.00          | -0.34     | 3.14          | -0.02     | 3.25          | -0.32     | 4.45          | +0.32     | 4.61          | +0.58     | 3.69           | -0.63     | 2.97          | -0.29     | 2.83          | -0.73     | 1.75          | -1.63     | 2.05          | -0.99     | 5.07          | +2.04     | 36.87         | -4.25     |
| Herr's Island Dam.....    | 1.23          | -1.71     | 2.43          | -0.04     | 2.33          | -0.95     | 3.52          | +0.37     | 5.42          | -2.37     | 6.02          | +1.84     | 4.21           | +0.59     | 3.10          | -0.19     | 2.90          | +0.40     | 1.46          | -1.27     | 1.95          | -0.26     | 2.96          | -0.22     | 37.53         | +1.37     |
| Ingram.....               | 1.16          | .....     | 2.50          | .....     | 2.63          | .....     | 4.00          | .....     | 6.64          | .....     | 5.46          | .....     | 5.59           | .....     | 3.71          | .....     | 3.71          | .....     | 1.45          | .....     | 2.21          | .....     | 3.19          | .....     | 42.25         | .....     |
| Irwin.....                | 1.02          | -1.90     | 2.28          | -0.16     | 1.95          | -1.36     | 3.70          | +0.50     | 4.07          | +0.85     | 3.48          | -0.95     | 2.85           | -0.97     | 5.94          | +2.23     | 5.31          | +2.59     | 1.90          | -0.95     | 1.75          | -0.62     | 3.50          | +0.59     | 37.75         | -0.15     |
| Johnstown.....            | 1.34          | -2.85     | 2.32          | -1.46     | 3.03          | -1.00     | 4.89          | +0.85     | 6.10          | +1.68     | 4.41          | -0.76     | 5.40           | +1.03     | 6.55          | +2.22     | 5.60          | +2.07     | 2.52          | -0.49     | 2.42          | -0.61     | 4.31          | +0.70     | 48.89         | +1.38     |
| Kegon.....                | 1.18          | .....     | 2.41          | .....     | 3.81          | .....     | 5.06          | .....     | 6.05          | .....     | 4.32          | .....     | 5.40           | .....     | 8.78          | .....     | 5.19          | .....     | 3.16          | .....     | 2.00          | .....     | 3.67          | .....     | 51.03         | .....     |
| Lake Lynn.....            | 1.11          | .....     | 2.16          | .....     | 2.29          | .....     | 4.46          | .....     | 6.99          | .....     | 2.84          | .....     | 5.45           | .....     | 7.01          | .....     | 5.60          | .....     | 1.86          | .....     | 2.91          | .....     | 4.38          | .....     | 47.06         | .....     |
| Linesville.....           | 1.82          | -1.18     | 1.95          | -0.15     | 1.73          | -1.49     | 3.99          | +0.82     | 5.16          | +1.75     | 3.29          | -0.71     | 3.11           | -0.58     | 4.15          | +0.83     | 3.32          | -0.58     | 2.76          | -0.97     | 4.06          | +1.04     | 2.98          | -0.24     | 38.32         | -1.46     |
| Lock No. 2 (Neville)..... | 1.05          | .....     | 2.47          | .....     | 2.24          | .....     | 3.96          | .....     | 4.92          | .....     | 6.57          | .....     | 3.81           | .....     | 2.88          | .....     | 3.09          | .....     | 1.13          | .....     | 1.89          | .....     | 3.41          | .....     | 37.42         | .....     |
| Lock No. 4.....           | 1.08          | -2.04     | 2.34          | -0.42     | 2.12          | -1.19     | 4.10          | +0.85     | 6.14          | +2.53     | 5.30          | +1.36     | 3.00           | -1.02     | 4.51          | +0.99     | 3.37          | +0.52     | 2.38          | -0.46     | 1.87          | -0.65     | 3.21          | +0.30     | 39.42         | +0.77     |
| Lycippus.....             | 1.29          | -2.70     | 2.77          | -0.42     | 3.27          | -0.46     | 5.93          | +2.10     | 6.95          | +2.99     | 4.13          | -0.55     | 2.96           | -1.89     | 6.16          | +1.98     | 6.08          | +0.76     | 3.19          | +0.04     | 2.24          | -0.50     | 3.61          | +0.23     | 48.53         | +3.58     |
| McKeesport.....           | 1.14          | .....     | 2.29          | .....     | 1.58          | .....     | 3.14          | .....     | 3.14          | .....     | 4.73          | .....     | 1.84           | .....     | 1.92          | .....     | 3.36          | .....     | 0.58          | .....     | 0.85          | .....     | 2.47          | .....     | 27.04         | .....     |
| Meadville.....            | 1.22          | -2.10     | 1.87          | -1.02     | 2.04          | -1.29     | 3.90          | +0.52     | 5.09          | +0.77     | 2.22          | -1.90     | 2.82           | -1.35     | 2.82          | -0.92     | 3.09          | -0.53     | 3.42          | -0.11     | 4.23          | +0.74     | 2.93          | -0.23     | 35.65         | -7.42     |
| Mt. Lebanon.....          | 0.78          | .....     | 2.43          | .....     | 2.82          | .....     | 3.84          | .....     | 4.77          | .....     | 5.82          | .....     | 4.54           | .....     | 3.09          | .....     | 3.87          | .....     | 1.87          | .....     | 0.62          | .....     | 3.12          | .....     | 37.07         | .....     |
| Natrona.....              | 1.20          | .....     | 2.48          | .....     | 2.16          | .....     | 3.71          | .....     | 5.68          | .....     | 5.08          | .....     | 4.38           | .....     | 2.06          | .....     | 4.48          | .....     | 1.21          | .....     | 2.00          | .....     | 3.59          | .....     | 41.03         | .....     |
| New Castle.....           | 1.16          | -1.86     | 2.23          | -0.19     | 2.19          | -0.72     | 3.35          | +0.36     | 5.36          | +1.98     | 4.88          | +0.57     | 1.81           | -2.31     | 5.35          | +2.14     | 3.40          | +0.26     | 1.73          | -0.99     | 2.53          | +0.13     | 4.53          | +1.95     | 38.52         | +1.32     |
| Newell.....               | 0.49          | -2.38     | 1.79          | -0.48     | 2.03          | -1.08     | 3.16          | +0.18     | 6.77          | +4.01     | 4.21          | +0.16     | 2.30           | -1.47     | 5.32          | +2.26     | 4.01          | +1.36     | 1.70          | -0.84     | 2.01          | -0.27     | 3.28          | +0.66     | 37.07         | +2.11     |
| Parkers Landing.....      | 1.42          | -2.14     | 2.39          | -0.69     | 2.01          | -1.52     | 4.42          | +0.93     | 5.33          | +1.55     | 4.10          | -0.09     | 5.73           | +1.54     | 4.84          | +0.90     | 3.49          | +0.11     | 1.29          | -1.59     | 2.44          | -0.61     | 5.29          | +1.99     | 42.75         | +0.38     |
| Pennline.....             | 1.73          | -0.85     | 1.45          | -0.62     | 2.07          | -0.83     | 3.72          | +0.39     | 4.83          | +1.28     | 5.76          | +0.96     | 2.83           | -0.84     | 5.09          | +1.50     | 3.35          | -1.09     | 2.58          | -0.54     | 3.29          | -0.11     | 2.93          | +0.18     | 36.63         | -2.49     |
| Pittsburgh.....           | 1.16          | -1.89     | 1.93          | -0.69     | 2.48          | -0.55     | 3.61          | +0.69     | 4.46          | +2.25     | 5.72          | +1.91     | 5.36           | +1.31     | 3.50          | +0.27     | 3.81          | +1.23     | 1.21          | -1.31     | 1.80          | -0.49     | 2.94          | +0.08     | 38.98         | +2.81     |
| Punxsutawney.....         | 1.15          | -1.84     | 1.46          | -1.18     | 3.14          | +0.32     | 2.36          | -1.01     | 3.56          | +0.14     | 4.05          | -0.65     | 5.48           | +1.72     | 2.44          | -0.71     | 5.60          | +2.51     | 1.45          | -1.17     | 2.26          | -0.62     | 4.89          | +2.21     | 37.84         | -0.28     |
| Ridgway.....              | 1.29          | -1.67     | 1.86          | -0.56     | 2.07          | -1.03     | 3.81          | +0.88     | 5.47          | -1.51     | 5.17          | +0.78     | 3.94           | -0.02     | 4.01          | +0.74     | 3.74          | +0.55     | 1.44          | -1.62     | 2.43          | -0.41     | 5.04          | +2.44     | 40.27         | +1.59     |
| Saltsburg.....            | 1.10          | -2.57     | 1.77          | -1.32     | 1.86          | -1.29     | 3.23          | -0.08     | 3.44          | -0.13     | 5.55          | +1.13     | 2.82           | -1.22     | 4.89          | +1.17     | 6.65          | +3.16     | 2.02          | -1.49     | 1.96          | -0.43     | 3.25          | +0.01     | 38.54         | -2.46     |
| Sharon.....               | 1.11          | -1.35     | 1.66          | -0.08     | 1.45          | -1.22     | 3.38          | +0.31     | 4.56          | +1.39     | 3.31          | -0.15     | 1.93           | -1.60     | 2.82          | -0.61     | 2.18          | -0.66     | 2.00          | -0.88     | 1.06          | -1.41     | 3.17          | +0.85     | 28.63         | -6.41     |
| Smethport.....            | 1.61          | -1.45     | 1.76          | -0.53     | 2.38          | -1.25     | 2.95          | +0.13     | 5.01          | +0.68     | 3.83          | -0.31     | 5.52           | +0.97     | 4.54          | -0.06     | 4.06          | +0.42     | 2.56          | -0.54     | 1.81          | -1.63     | 3.98          | +0.08     | 41.87         | +8.95     |
| Somerset.....             | 1.23          | -3.28     | 2.31          | -1.63     | 2.62          | -1.65     | 4.18          | -0.53     | 5.35          | +0.44     | 3.66          | -1.54     | 3.62           | -0.48     | 2.19          | -1.74     | 3.76          | +0.47     | 1.26          | -1.87     | 1.96          | -0.54     | 3.47          | +0.30     | 38.78         | -2.34     |
| Springdale.....           | 1.32          | -2.21     | 2.51          | -0.22     | 2.65          | -0.74     | 3.89          | +0.55     | 6.06          | +2.52     | 6.09          | +1.62     | 3.67           | -2.16     | 4.47          | -0.15     | 5.91          | +2.65     | 2.75          | -0.47     | 2.58          | -0.58     | 3.46          | -0.01     | 43.24         | -2.57     |



Monthly and Annual Mean Temperatures for the Year 1931, with Departures from the Normal

| STATIONS.          | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|--------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                    | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| Atlantic Drainage. |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Allentown          | 29.3        |           | 30.9        |           | 37.6        |           | 49.1        |           | 59.8        |           | 68.3        |           | 75.6        |           | 72.0        |           | 69.4        |           | 56.4        |           | 48.9        |           | 37.6        |           | 52.9        |           |
| Altoona            | 31.0        | +4.0      | 32.2        | +5.0      | 33.8        | -4.0      | 47.5        | -0.5      | 58.3        | -0.5      | 67.4        | +1.1      | 74.4        | +3.6      | 69.4        | +0.4      | 68.8        | +5.7      | 55.2        | +3.1      | 48.8        | +8.4      | 37.9        | +8.2      | 52.1        | +2.9      |
| Arendtsville       | 32.0        |           | 33.5        |           | 37.6        |           | 50.2        |           | 62.4        |           | 71.6        |           | 77.7        |           | 74.4        |           | 72.0        |           | 58.0        |           | 48.6        |           | 38.2        |           | 54.7        |           |
| Bedford            |             |           |             |           |             |           |             |           |             |           |             |           | 76.5        |           | 72.1        |           | 69.8        |           | 56.3        |           | 52.5        |           | 39.0        |           |             |           |
| Bellefonte         | 28.0        | +0.3      | 30.0        | +2.7      | 34.0        | -6.1      | 45.7        | -4.8      | 57.7        | -3.4      | 66.0        | -2.7      | 73.1        | -0.1      | 68.4        | -2.4      | 66.9        | +2.0      | 53.0        | 0.0       | 46.8        | +5.4      | 35.6        | +5.1      | 50.4        | -0.4      |
| Bethlehem          | 32.0        | +2.0      | 33.1        | +2.0      | 39.8        | -0.8      | 51.7        | +0.2      | 63.1        | +0.9      | 72.2        | +2.0      | 77.9        | +3.8      | 74.6        | +1.8      | 71.9        | +5.2      | 59.4        | +3.7      | 51.4        | +7.2      | 40.0        | +6.7      | 55.6        | +2.9      |
| Carlisle           | 31.8        | +3.7      | 34.6        | +4.6      | 39.4        | +1.0      | 51.2        | -0.9      | 63.0        | +1.6      | 70.8        | -0.2      | 78.7        | +3.9      | 73.4        | +0.8      | 72.0        | +6.8      | 56.5        | +3.7      | 49.4        | +8.3      | 38.6        | +7.1      | 55.0        | +3.4      |
| Catawissa          | 28.4        | +0.7      | 32.2        | +2.6      | 38.6        | +0.2      | 49.8        | -0.6      | 62.8        | +2.3      | 69.6        | +1.4      | 77.7        | +4.4      | 72.6        | +2.3      | 70.7        | +6.7      | 56.3        | +2.9      | 50.9        | +8.5      | 38.6        | +7.1      | 54.0        | +3.2      |
| Center Hall        | 26.5        | +0.7      | 29.6        | +2.3      | 34.8        | -1.8      | 45.5        | -2.7      | 54.5        | -4.3      | 64.7        | -1.3      | 71.0        | -0.2      | 66.4        | -2.3      | 64.5        | +2.3      | 54.0        | +2.1      | 48.0        | +7.8      | 36.9        | +7.2      | 49.7        | +0.8      |
| Chambersburg       | 33.8        | +4.9      | 36.2        | +4.8      | 39.0        | -0.5      | 51.1        | +1.0      | 63.1        | +2.0      | 71.8        | +2.4      | 78.8        | +4.5      | 74.0        | +2.2      | 72.6        | +6.5      | 58.2        | +5.3      | 51.0        | +9.1      | 40.4        | +7.4      | 55.8        | +4.1      |
| Clearfield         | 30.7        | +3.9      | 33.4        | +5.0      | 35.0        | -1.4      | 46.0        | -1.9      | 58.9        | +0.1      | 69.9        | +3.0      | 74.0        | +2.6      | 71.5        | +1.6      | 69.8        | +5.9      | 55.2        | +2.6      | 50.6        | +9.8      | 37.8        | +8.2      | 52.7        | +3.3      |
| Coatesville        | 32.2        | +2.3      | 34.2        | +3.8      | 38.7        | -1.3      | 50.4        | -0.2      | 61.6        | +0.3      | 70.3        | +0.3      | 77.2        | +2.6      | 73.2        | +0.7      | 71.4        | +5.2      | 58.0        | +3.9      | 50.1        | +7.3      | 39.6        | +6.9      | 54.7        | +2.6      |
| Colebrook          | 28.6        | +1.6      | 32.3        | +2.0      | 36.8        | -3.3      | 48.6        | -0.5      | 60.2        | +1.2      | 67.2        | -0.9      | 74.4        | +2.0      | 70.2        | -0.1      | 68.8        | +4.6      | 55.2        | +2.5      | 48.0        | +6.4      | 36.8        | +5.2      | 52.3        | +1.8      |
| Emporium           | 28.0        | +2.5      | 30.4        | +4.8      | 34.5        | -0.9      | 44.9        | -0.9      | 57.4        | -0.4      | 65.7        | -0.1      | 72.2        | +2.6      | 68.4        | +1.0      | 65.8        | +4.4      | 52.4        | +2.4      | 47.8        | +8.6      | 35.4        | +6.3      | 50.2        | +2.5      |
| Ephrata            | 32.3        | +2.7      | 35.2        | +5.5      | 39.4        | -0.6      | 50.6        | +0.6      | 61.8        | +0.8      | 69.6        | +1.1      | 76.6        | +2.5      | 72.6        | +1.0      | 70.4        | +4.6      | 57.4        | +2.8      | 50.4        | +7.5      | 39.8        | +7.6      | 54.7        | +3.0      |
| Freeland           | 26.0        | +2.1      | 27.2        | +2.5      | 32.2        | -0.7      | 45.4        | +1.1      | 58.4        | +2.2      | 65.8        | +1.2      | 72.2        | +3.6      | 68.0        | +1.8      | 66.0        | +6.4      | 54.6        | +7.6      | 46.8        | +9.8      | 33.6        | +6.5      | 49.7        | +3.7      |
| George School      | 32.9        | +2.3      | 34.7        | +3.5      | 40.4        | -0.3      | 50.6        | +0.4      | 61.8        | +1.3      | 71.2        | +2.6      | 77.2        | +3.5      | 74.0        | +2.6      | 71.9        | +5.9      | 60.0        | +5.0      | 51.3        | +8.1      | 39.8        | +6.8      | 55.5        | +3.5      |
| Gettysburg         | 33.9        | +4.5      | 35.8        | +4.7      | 39.2        | -0.9      | 51.8        | +1.1      | 63.0        | +1.7      | 70.7        | +0.8      | 78.0        | +3.8      | 73.4        | +1.5      | 72.2        | +6.6      | 58.8        | +5.8      | 51.2        | +9.2      | 40.6        | +8.4      | 55.7        | +3.9      |
| Gordon             | 27.0        | -0.7      | 30.2        | +3.2      | 35.8        | -1.1      | 47.8        | +0.1      | 59.1        | +1.3      | 67.3        | +1.7      | 73.4        | +3.3      | 69.6        | +1.8      | 67.6        | +5.3      | 53.8        | +3.1      | 47.6        | +8.0      | 36.6        | +7.6      | 51.3        | +2.9      |
| Gouldsboro         | 21.0        |           | 22.6        |           | 29.8        |           | 42.7        |           | 54.0        |           | 62.1        |           | 68.8        |           | 64.0        |           | 61.8        |           | 48.5        |           | 42.5        |           | 31.7        |           | 45.8        |           |
| Hamburg            | 30.2        | +1.9      | 32.6        | +3.4      | 38.4        | 0.0       | 49.4        | -0.3      | 60.8        | -0.1      | 69.0        | 0.0       | 76.8        | +3.5      | 73.0        | +1.8      | 70.6        | +5.3      | 57.0        | +3.6      |             |           | 38.1        | +6.4      |             |           |
| Hanover            | 35.0        | +2.9      | 36.8        | +3.9      | 39.7        | -2.8      | 52.5        | -0.1      | 63.9        | +1.1      | 71.9        | +1.0      | 79.0        | +3.6      | 75.2        | +2.1      | 73.4        | +5.8      | 60.4        | +5.0      | 53.2        | +8.6      | 42.4        | +8.2      | 57.0        | +3.3      |
| Harrisburg         | 33.1        | +4.1      | 35.0        | +4.8      | 38.7        | -0.2      | 50.9        | 0.0       | 62.3        | +0.5      | 71.0        | +0.7      | 77.9        | +3.1      | 73.8        | +1.2      | 72.1        | +6.3      | 58.9        | +4.1      | 51.2        | +8.4      | 40.2        | +7.5      | 55.4        | +3.3      |
| Hawley             | 24.6        | 0.0       | 26.2        | -0.2      | 34.9        | -0.6      | 46.7        | +1.1      | 58.0        | +1.2      | 66.5        | +0.2      | 73.0        | +2.6      | 68.6        | +0.8      | 65.6        | +3.9      | 51.8        | +2.2      | 46.0        | +6.5      | 33.8        | +5.0      | 49.6        | +1.8      |
| Holtwood           | 32.2        | +2.1      | 34.2        | +1.1      | 40.0        | -2.0      | 53.0        | +1.4      | 64.2        | +2.4      | 74.2        | +0.9      | 81.5        | +5.7      | 78.2        | +4.7      | 76.8        | +7.8      | 63.0        | +6.8      | 53.8        | +9.0      | 42.3        | +8.1      | 57.8        | +4.2      |
| Huntingdon         | 32.2        | +3.7      | 33.0        | +3.8      | 36.8        | -2.1      | 49.2        | -0.4      | 60.3        | +0.1      | 69.8        | +1.5      | 75.8        | +3.6      | 71.8        | +1.4      | 69.8        | +5.2      | 56.0        | +3.3      | 49.9        | +8.2      | 38.0        | +6.4      | 53.6        | +2.9      |
| Hyndman            | 34.5        | +4.4      | 35.2        | +3.7      | 38.2        | -2.2      | 50.6        | -0.1      | 62.0        | +1.2      | 70.8        | +3.4      | 78.0        | +5.5      | 72.8        | +1.8      | 70.8        | +5.4      | 56.4        | +3.2      | 50.8        | +8.5      | 40.4        | +8.0      | 55.0        | +3.5      |
| Kylertown          | 27.2        |           | 29.2        |           | 32.0        |           | 45.1        |           | 57.1        |           | 65.8        |           | 72.4        |           | 67.8        |           | 65.8        |           | 53.0        |           | 45.8        |           | 35.6        |           | 49.7        |           |
| Lancaster          | 28.2        | -1.5      | 32.2        | +1.0      | 38.0        | -1.7      | 48.2        | -0.9      | 59.0        | -1.7      | 68.1        | -1.9      | 75.5        | +1.8      | 71.0        | -1.0      | 69.4        | +3.9      | 52.5        | -1.3      | 46.4        | +3.0      | 36.5        | +3.1      | 52.1        | +0.3      |
| Lawrenceville      | 27.3        | +2.7      | 26.6        | +2.1      | 34.0        | -0.8      | 45.8        | -0.1      | 58.4        | +1.5      | 65.7        | +0.1      | 73.4        | +3.2      | 69.2        | +1.3      | 67.0        | +5.5      | 52.6        | +2.1      | 48.4        | +9.4      | 33.8        | +5.1      | 50.2        | +2.7      |
| Lebanon            | 32.2        | +3.4      | 34.6        | +5.0      | 38.9        | -0.5      | 50.6        | +0.2      | 61.5        | +0.7      | 69.5        | +0.1      | 77.0        | +3.2      | 73.4        | +1.6      | 71.6        | +6.0      | 57.7        | +4.0      | 49.8        | +7.3      | 38.8        | +6.8      | 54.6        | +3.1      |
| Lewisburg          | 30.0        | +3.7      | 32.3        | +5.0      | 38.6        | +1.6      | 50.4        | +1.0      | 62.4        | +2.5      | 70.6        | -1.6      | 77.8        | +4.5      | 73.2        | +2.4      | 71.1        | +4.7      | 56.8        | +5.0      | 49.0        | +8.5      | 37.6        | +7.5      | 54.2        | +4.0      |
| Lock Haven         | 31.1        | +3.7      | 32.7        | +4.7      | 38.9        | +0.3      | 51.2        | +0.9      | 62.4        | +0.8      | 71.0        | +1.5      | 77.6        | +4.3      | 73.2        | +2.1      | 71.5        | +6.7      | 56.8        | +3.3      | 51.0        | +8.1      | 39.0        | +8.0      | 54.7        | +3.8      |
| Lykens             | 29.8        | +2.1      | 32.6        | +1.9      | 37.2        | -2.3      | 49.2        | -0.8      | 62.6        | +3.4      | 68.8        | +1.3      | 75.2        | +3.4      | 71.9        | +1.9      | 69.9        | +5.5      | 56.4        | +3.1      | 49.4        | +7.6      | 37.8        | +6.8      | 53.4        | +2.8      |
| Marcus Hook        | 36.2        |           |             |           | 44.0        |           | 54.6        |           | 66.6        |           | 74.6        |           | 81.6        |           |             |           | 76.4        |           | 64.4        |           | 53.4        |           | 44.6        |           |             |           |
| Mauch Chunk        | 30.2        | -2.9      | 31.8        | +4.0      | 37.6        | +0.2      | 48.8        | +0.2      | 60.2        | +0.9      | 72.2        | +2.4      | 74.9        | +2.7      | 70.6        | +0.6      | 69.2        | +5.0      | 55.2        | +2.8      | 48.6        | +7.6      | 36.7        | +6.0      | 53.0        | +3.1      |
| Mifflintown        | 31.4        | +3.5      | 32.9        | +4.1      | 37.0        | -2.2      | 48.9        | -1.1      | 61.2        | +1.1      | 70.3        | +1.9      | 76.4        | +3.5      | 71.6        | +1.1      | 70.4        | +5.9      | 56.6        | +3.7      | 49.7        | +8.3      | 38.2        | +7.1      | 53.7        | +3.1      |
| Montrose           | 21.6        | +0.6      | 21.8        | -0.4      | 30.2        | -2.1      | 41.4        | -2.6      | 52.9        | -1.6      | 63.6        | +0.4      | 70.6        | +2.9      | 67.3        | +1.0      | 63.8        | +3.3      | 51.4        | +2.4      | 45.5        | +8.1      | 33.8        | +7.7      | 47.0        | +1.7      |
| Mount Pocono       | 26.7        | +3.9      | 26.8        | +5.5      | 30.2        | -2.0      | 41.6        | -0.9      | 52.1        | -1.8      | 61.9        | +0.2      | 67.0        | +1.8      | 65.2        | +1.4      | 62.0        | +3.6      | 52.0        | +3.6      | 45.2        | +8.9      | 30.6        | +4.8      | 46.8        | +2.4      |
| Muncy Valley       | 24.7        | +0.1      | 27.2        | +0.8      | 35.2        | -0.5      | 45.3        | -2.3      | 57.6        | +0.7      | 65.6        | +0.4      | 72.6        | +3.0      | 69.2        | +1.6      | 65.6        | +4.1      | 52.1        | +1.8      | 45.0        | +5.5      | 34.2        | +6.2      | 49.5        | +1.8      |
| Neshaminy Falls    | 30.4        | +2.4      | 32.6        | +2.8      | 39.2        | -0.2      | 49.3        | +0.1      | 59.7        | +0.3      | 69.0        | +0.4      | 76.0        | +2.7      | 73.1        | +2.1      | 70.4        | +5.0      | 57.8        | +3.9      | 50.0        | +7.8      | 37.8        | +6.1      | 53.8        | +2.8      |
| Palmerton          | 29.6        |           | 31.0        |           | 37.2        |           | 48.0        |           | 59.3        |           | 68.5        |           | 75.4        |           | 70.8        |           | 68.0        |           | 54.8        |           | 48.1        |           | 37.4        |           | 52.3        |           |
| Philadelphia       | 36.2        | +3.6      | 37.4        | +3.5      | 42.3        | +1.5      | 53.2        | +1.1      | 64.2        | +1.3      | 72.9        | +1.5      | 79.8        | +3.6      | 76.3        | +1.5      | 74.1        | +6.1      | 62.6        | +4.8      | 54.0        | +8.3      | 44.2        | +7.9      | 58.1        | +3.7      |
| Philadelphia-Gtn.  | 35.0        |           | 36.6        |           | 41.6        |           | 52.8        |           | 64.0        |           | 73.2        |           | 80.0        |           | 76.2        |           | 74.0        |           | 61.6        |           | 53.2        |           | 42.8        |           | 57.6        |           |
| Phila-Navy Yard    | 34.2        | +2.5      | 35.2        | +1.5      |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |



## COOPERATIVE AND RAINFALL OBSERVERS

| Stations           | Observers                 | Stations               | Observers                | Stations                 | Observers                |
|--------------------|---------------------------|------------------------|--------------------------|--------------------------|--------------------------|
| Allentown.....     | John A. Frick.            | George School.....     | N. W. Swayne.            | Parkers Landing.....     | Henry Turk.              |
| Altoona.....       | F. E. Rooney.             | Gettysburg.....        | Dr. Henry Stewart.       | Paupack.....             | Penn. Power & Light Co.  |
| Ansonia.....       | Paul H. Mulford.          | Girardville.....       | Girard Water Co.         | Retta Crumb.....         | Retta Crumb.             |
| Ardmore.....       | H. L. Balderston.         | Gordon.....            | Sallie M. Johnson.       | Philadelphia.....        | U. S. Weather Bureau.    |
| Arendtsville.....  | Dr. S. W. Frost.          | Gouldsboro.....        | Gustav Holtz.            | Philadelphia-Gtn.....    | Julius Bernstein.        |
| Bakers Summit..... | M. Snyder.                | Graterford.....        | C. K. Kuip.              | Philadelphia.....        | Commandant, Navy         |
| Beaver Dam.....    | F. H. McCullough.         | Greensburg.....        | Westmoreland Water Co.   | Navy Yard.....           | Yard.                    |
| Beaver Falls.....  | W. Edward Eakin.          | Greenville.....        | C. P. Clarke.            | Phila. Point Breeze..... | Atlantic Refining Co.    |
| Bedford.....       | Charles C. Lee.           | Grove City.....        | Prof. H. W. Harmon.      | Phoenixville.....        | N. Springfield Water Co. |
| Bethlehem.....     | Lehigh University.        | Hamburg.....           | State Sanatorium.        | Pine Grove.....          | East Penn Electric Co.   |
| Blosserville.....  | A. G. Mount.              | Hanover.....           | Thomas Y. Cooper.        | Pittsburgh.....          | U. S. Weather Bureau.    |
| Belleville.....    | U. S. Weather Bureau.     | Harrisburg.....        | U. S. Weather Bureau.    | Pleasant Mount.....      | G. W. Buller.            |
| Bradford.....      | Supt. Timber Pres. Plant. | Hawley.....            | Mrs. Della M. Pennell.   | Pottstown.....           | J. Ernest Spare.         |
| Brookville.....    | John Fawcett.             | Herr's Island Dam..... | U. S. Engineer.          | Pottsville.....          | John H. Strauch.         |
| Butler.....        | The Butler Eagle.         | Hollisterville.....    | Penn. P. & L. Co.        | Quakertown.....          | John E. Benner.          |
| Carlisle.....      | Clarence E. Miller.       | Holtwood.....          | H. W. Lowy, C. E.        | Reading.....             | U. S. Weather Bureau.    |
| Catawissa.....     | W. L. Gearhart.           | Huntingdon.....        | Prof. Paul R. Yoder.     | Renovo.....              | J. H. Baird.             |
| Center Hall.....   | S. W. Smith.              | Hyndman.....           | Horace A. Sheavly.       | Ridgway.....             | West Penn. Power Co.     |
| Chambersburg.....  | Wm. B. Spear.             | Ingram.....            | W. R. Gormly.            | Saltsburg.....           | Thomas M. Duncan.        |
| Chambersville..... | John E. Lewis.            | Irwin.....             | W. F. Gallagher.         | Scranton.....            | U. S. Weather Bureau.    |
| Clairton.....      | Carnegie Steel Co.        | Johnstown.....         | E. C. Lorentz.           | Selinsgrove.....         | Dr. George E. Fisher.    |
| Claysville.....    | J. L. Melvin.             | Keglar.....            | I. A. Knupp.             | Sharon.....              | H. H. Gerber.            |
| Clearfield.....    | E. W. Hess, C. E.         | Kylertown.....         | Bur. Plant Industry.     | Shawmont.....            | Winfield S. Guiles.      |
| Cloe.....          | Frank McElwain.           | Lakeville.....         | Penn. P. & L. Co.        | Snow Hill.....           | G. L. Dormy.             |
| Clymer.....        | L. Frendberg.             | Lancaster.....         | Supt. Water Works.       | Somerset.....            | D. L. Grove.             |
| Coatesville.....   | Howard L. Pyle.           | Lansford.....          | Lehigh Coal & Nav. Co.   | Springdale.....          | U. S. Engineer.          |
| Colebrook.....     | William A. Rorer.         | Lawrenceville.....     | C. P. Darling.           | State College.....       | C. A. Kern.              |
| Confluence.....    | Grant Pyle.               | Lebanon.....           | S. B. Benzing.           | Stroudsburg.....         | State Normal School.     |
| Conshohocken.....  | Russell C. Erb.           | Lewisburg.....         | Prof. Wm. G. Owens.      | Sunbury.....             | Carl E. Stahl.           |
| Coraopolis.....    | U. S. Engineer.           | Linesville.....        | Marian Kanaur.           | Towanda.....             | Hiram E. Bull, C. E.     |
| Corry.....         | Assd. Gas & Electric Co.  | Lloyd.....             | M. L. Fish.              | Uniontown.....           | Wm. W. Marsteller.       |
| Coudersport.....   | West Penn Power Co.       | Lock Haven.....        | Joseph A. Beaver.        | Unity Reservoir.....     | Westmoreland Water Co.   |
| Cresson.....       | W. P. Linnan.             | Lock No. 4.....        | U. S. Engineer.          | Vandergrift.....         | H. R. Belding.           |
| Derry.....         | Ted R. Wineman.           | Lycippus.....          | Westmoreland Coal Co.    | Warren.....              | Mrs. Anna Simpson.       |
| Donora.....        | Donora Zinc Works.        | Lykens.....            | Susquehanna Coal Co.     | Waynesburg.....          | Thomas S. Knox.          |
| Doylestown.....    | Geo. Hart.                | Marcus Hook.....       | Sun Oil Co.              | Weikert.....             | David Libby.             |
| Driftwood.....     | Walter Leach.             | Mauch Chunk.....       | R. K. Wintermute.        | Wellsboro.....           | George W. Hill.          |
| Ebensburg.....     | D. H. Jones.              | Meadville.....         | Assd. Gas & Electric Co. | West Chester.....        | Joseph W. Belt.          |
| Elk Lick.....      | J. S. Stevanus.           | Midlinton.....         | Wellington Smith.        | Westford.....            | C. C. Collins.           |
| Emporium.....      | T. B. Lloyd.              | Montrose.....          | Silas Jagger.            | Westgrove.....           | Conard-Pyle Co.          |
| Ephrata.....       | Ira J. Keath.             | Morris Run.....        | Morris Run Mining Co.    | West Newton.....         | A. B. Adams.             |
| Erie.....          | U. S. Weather Bureau.     | Mt. Lebanon.....       | Fred Hoffman.            | Wilkes-Barre.....        | Milton Wentz.            |
| Falls Creek.....   | J. S. Snell.              | Muncy Valley.....      | Cecil J. Hoskinson.      | Williamsport.....        | Veronica E. April.       |
| Forest City.....   | L. L. Whipple.            | Mount Pocono.....      | H. O. Hacker.            | York.....                | C. L. Bott.              |
| Franklin.....      | R. A. Fergus.             | Neshaminy Falls.....   | N. Springfield Water Co. | York Haven.....          | York Haven Water Co.     |
| Freeland.....      | Theodore Reichmann.       | New Castle.....        | New Castle Water Co.     |                          |                          |
| Freeport.....      | U. S. Engineer.           | Newell.....            | General Chemical Co.     |                          |                          |
| Galeton.....       | Henry W. Lush.            | New Park.....          | C. J. Allen.             |                          |                          |
| Genesee.....       | Frank Johnson.            | Palmerton.....         | New Jersey Zinc Co.      |                          |                          |

## WEATHER BUREAU AND COOPERATIVE STATIONS, 1931





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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVII.

JANUARY, 1932.

No. 1.

## GENERAL SUMMARY.

This was the warmest January of record for the State, the mean of 40.5 degrees exceeding the previous high record of 1890 by three degrees. At Philadelphia, for which many old records are available, the mean for the month was 46.2 degrees, and established a new high mean for the last hundred years. Despite the high mean, there were no record breaking maximum temperatures. The highest for the State was 79 degrees, and was exceeded in 1906 and 1914 with 85 and 81 degrees respectively. However, the State minimum of 9 degrees was the highest minimum of record. At Philadelphia the temperature was above the normal for every date excepting the last. The greatest excess was 32 degrees on the 13th. There was no freezing until the 31st, and lawns remained green. Many kinds of flowers were found in bloom, among which were dandelions, pansies, petunias, and japonica. The flowers, of course, were in isolated and well protected places. There was nothing outstanding in the precipitation record excepting the extremely small portion that occurred as snow. The average snowfall for the State, 1.3 inches, was the least for any January during the last forty-four years. There were seventeen counties in the southern portion of the State that received only traces of snow. The heaviest snowfall for the month was 11.0 inches in the extreme north-eastern corner of the State. With very little frost in the top soil, and none in the sub soil, the winter grains did not need a snow cover for protection. In the southeastern counties they continued to grow during the greater portion of the month, and were looking fine. Plowing continued intermittently during the month, and several places reported that the spring plowing was finished.

The conditions were favorable for road work, and for most kinds of building construction. There was an unusually strong wind movement occasioned by the large number of dates with moderate gales, although the extreme winds were not unusually high. Erie recorded a total wind movement of 12,072 miles, and Philadelphia a total of 10,148 miles. More than the usual number of thunderstorms were reported, and there was an excessively large number of foggy days. It was a freakish month in many respects, but on the whole it was pleasant and agreeable. Stock was turned out in the fields more than usual. The excess of about 30 per cent in rainfall was needed to replenish the water supply, and many wells and springs that went dry last fall were restored to use.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 40.5°, which is 12.6° above the January

normal. The highest monthly mean was 46.2°, at Philadelphia-Weather Bureau, and the lowest 33.0°, at Gouldsboro and Mount Pocono. The highest temperature recorded during the month was 79°, at Hanover and Hyndman on the 14th, while the lowest 9°, occurred at Mount Pocono on the 31st. The greatest daily range in temperature was 43° at Arendtsville on the 13th.

## PRECIPITATION.

The average precipitation, for the State, as deduced from the observations of 144 well-distributed stations, was 4.51 inches, an excess of 1.26 inches as compared with the normal. Monthly totals ranged from a maximum of 7.48 inches at Brookville, to a minimum of 1.98 inches at Center Hall. The greatest amount recorded in any 24 consecutive hours was 2.60 inches at Gouldsboro on the 6-7th. Snowfall averaged 1.3 inches, as compared with a January normal of 11.7 inches. The greatest monthly amount was 11.1 inches at Pleasant Mount, which place also reported the greatest 24-hour fall of 8.5 inches on the 1st-2d.

## COMPARATIVE DATA FOR JANUARY

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 23.2        | 61      | -19    | 4.19          | 6.75     | 2.12  | 5           | 11            | 15     | 13                     |
| 1889.....                | 29.4        | 68      | -5     | 3.54          | 7.02     | 1.82  | 9           | 13            | 9      | 10                     |
| 1890.....                | 37.5        | 77      | -2     | 3.04          | 6.87     | 1.47  | 7           | 8             | 16     | 14                     |
| 1891.....                | 30.5        | 64      | -4     | 3.64          | 8.74     | 1.22  | 6           | 10            | 15     | 12                     |
| 1892.....                | 26.2        | 66      | -28    | 4.77          | 8.46     | 2.08  | 8           | 8             | 15     | 12                     |
| 1893.....                | 19.0        | 57      | -25    | 2.85          | 4.82     | 1.65  | 7           | 10            | 14     | 12                     |
| 1894.....                | 32.8        | 65      | -9     | 2.29          | 4.71     | 0.83  | 9           | 9             | 13     | 10                     |
| 1895.....                | 24.2        | 58      | -17    | 4.17          | 6.36     | 1.83  | 7           | 10            | 14     | 13                     |
| 1896.....                | 27.6        | 60      | -15    | 1.43          | 2.40     | 0.52  | 8           | 9             | 14     | 6                      |
| 1897.....                | 25.6        | 74      | -25    | 2.15          | 3.54     | 0.87  | 8           | 8             | 15     | 10                     |
| 1898.....                | 30.7        | 67      | -16    | 4.25          | 7.57     | 1.32  | 6           | 8             | 17     | 13                     |
| 1899.....                | 26.6        | 66      | -21    | 3.05          | 4.84     | 0.82  | 12          | 8             | 11     | 10                     |
| 1900.....                | 29.8        | 63      | -8     | 2.64          | 4.37     | 1.36  | 8           | 9             | 14     | 10                     |
| 1901.....                | 29.1        | 59      | -10    | 2.22          | 4.41     | 0.74  | 8           | 8             | 15     | 11                     |
| 1902.....                | 25.6        | 58      | -13    | 2.80          | 5.15     | 1.00  | 8           | 9             | 14     | 9                      |
| 1903.....                | 26.9        | 48      | -13    | 3.31          | 5.09     | 1.49  | 5           | 8             | 17     | 11                     |
| 1904.....                | 20.0        | 56      | -42    | 3.55          | 5.82     | 2.08  | 10          | 5             | 15     | 12                     |
| 1905.....                | 23.8        | 69      | -21    | 3.70          | 7.55     | 1.72  | 8           | 8             | 15     | 12                     |
| 1906.....                | 35.0        | 85      | -4     | 2.53          | 5.28     | 0.76  | 10          | 8             | 13     | 11                     |
| 1907.....                | 30.0        | 75      | -23    | 4.36          | 9.69     | 2.14  | 5           | 7             | 18     | 15                     |
| 1908.....                | 23.4        | 59      | -18    | 2.68          | 5.33     | 1.46  | 12          | 8             | 11     | 9                      |
| 1909.....                | 31.2        | 72      | -19    | 2.92          | 4.25     | 1.58  | 9           | 6             | 16     | 13                     |
| 1910.....                | 27.2        | 56      | -22    | 5.55          | 8.91     | 3.27  | 7           | 5             | 18     | 14                     |
| 1911.....                | 31.6        | 70      | -5     | 3.54          | 6.38     | 1.25  | 8           | 5             | 18     | 13                     |
| 1912.....                | 18.6        | 57      | -35    | 1.92          | 3.72     | 0.47  | 8           | 7             | 16     | 12                     |
| 1913.....                | 36.5        | 85      | 3      | 4.95          | 8.90     | 1.51  | 9           | 6             | 16     | 16                     |
| 1914.....                | 30.2        | 81      | -27    | 3.37          | 5.77     | 1.40  | 7           | 7             | 17     | 11                     |
| 1915.....                | 28.3        | 62      | -26    | 5.56          | 9.69     | 2.43  | 10          | 6             | 15     | 13                     |
| 1916.....                | 34.2        | 76      | -12    | 2.42          | 5.33     | 0.20  | 9           | 8             | 14     | 12                     |
| 1917.....                | 27.9        | 69      | -18    | 3.60          | 6.69     | 1.06  | 11          | 8             | 12     | 13                     |
| 1918.....                | 16.2        | 57      | -29    | 3.51          | 7.28     | 1.20  | 10          | 8             | 13     | 12                     |
| 1919.....                | 32.0        | 64      | -15    | 2.53          | 2.10     | 0.34  | 14          | 8             | 9      | 8                      |
| 1920.....                | 20.9        | 59      | -23    | 2.47          | 5.35     | 1.00  | 9           | 8             | 14     | 10                     |
| 1921.....                | 31.0        | 63      | -13    | 2.58          | 5.23     | 0.89  | 12          | 7             | 12     | 10                     |
| 1922.....                | 25.0        | 62      | -19    | 2.26          | 4.46     | 1.15  | 14          | 7             | 10     | 8                      |
| 1923.....                | 29.1        | 62      | -17    | 4.26          | 7.74     | 1.91  | 6           | 6             | 19     | 14                     |
| 1924.....                | 28.1        | 65      | -13    | 4.34          | 6.29     | 1.70  | 11          | 8             | 12     | 8                      |
| 1925.....                | 25.2        | 55      | -29    | 3.49          | 6.68     | 1.07  | 11          | 7             | 13     | 10                     |
| 1926.....                | 27.8        | 66      | -19    | 2.80          | 4.85     | 1.12  | 9           | 9             | 13     | 11                     |
| 1927.....                | 27.4        | 61      | -24    | 2.90          | 8.28     | 0.76  | 9           | 6             | 16     | 13                     |
| 1928.....                | 29.8        | 65      | -23    | 2.08          | 4.48     | 0.78  | 12          | 8             | 11     | 9                      |
| 1929.....                | 27.3        | 73      | -20    | 3.37          | 6.86     | 1.12  | 9           | 9             | 13     | 12                     |
| 1930.....                | 29.2        | 72      | -24    | 2.25          | 4.74     | 0.70  | 8           | 8             | 15     | 12                     |
| 1931.....                | 30.0        | 65      | -12    | 1.46          | 2.66     | 0.49  | 12          | 9             | 10     | 7                      |
| 1932.....                | 40.5        | 79      | 9      | 4.51          | 7.48     | 1.98  | 7           | 6             | 18     | 14                     |
| Normal and Extremes..... | 27.9        | 85      | -42    | 3.25          | 9.69     | 0.20  | 9           | 8             | 14     | 11                     |



## Climatological Data for January, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 20                      | 40.6                         |                           | 71      | 14   | 23     | 31   | 31                       | 3.42  | -0.09                     | 0.97                 | T.                        | 14                           | 13    | 7          | 11                           | ne.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 39.3                         | +12.3                     | 72      | 14   | 15     | 31   | 29                       | 4.22  | +1.64                     | 0.91                 | 1.1                       | 16                           | 16    | 7          | 8                            | w.        | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             |                         | 41.5                         | +10.7                     | 74      | 14   | 18     | 31   | 31                       | 4.73  | +1.14                     | 0.88                 | 2.5                       | 12                           |       |            |                              |           | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 40.2                         |                           | 75      | 14   | 19     | 31   | 43                       | 4.09  |                           | 1.49                 | T.                        | 9                            | 12    | 10         | 9                            | w.        | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           |                         | 41.9                         |                           | 74      | 14   | 18     | 31   | 29                       | 3.15  |                           | 0.76                 | T.                        | 12                           | 9     | 6          | 16                           | nw.       | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 38.5                         | +10.8                     | 70      | 14   | 15     | 31   | 29                       | 3.06  | +0.29                     | 0.82                 | 2.7                       | 16                           | 1     | 7          | 23                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 42.6                         | +12.6                     | 72      | 14   | 23     | 31   | 29                       | 3.55  | 0.00                      | 0.72                 | T.                        | 17                           | 12    | 2          | 17                           | w.        | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 41.8                         | +13.7                     | 74      | 13   | 22     | 26   | 37                       | 4.37  | +1.25                     | 2.08                 | T.                        | 12                           | 9     | 3          | 19                           | nw.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 41.7                         | +14.0                     | 75      | 14   | 20     | 31   | 36                       | 3.69  | +0.53                     | 0.79                 | 1.5                       | 14                           | 10    | 3          | 18                           |           | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 36                      | 37.7                         | +11.9                     | 72      | 14   | 14     | 31   | 34                       | 1.98  | -0.58                     | 0.78                 | 3.5                       | 7                            | 12    | 0          | 19                           |           | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 42.6                         | +13.7                     | 77      | 13   | 21     | 31   | 36                       | 4.00  | +1.27                     | 1.35                 | 0.2                       | 13                           | 4     | 10         | 17                           | ne.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | 38.7                         | +11.9                     | 72      | 14   | 12     | 27   | 41                       | 6.02  | +2.40                     | 0.75                 | 5.0                       | 16                           | 9     | 8          | 14                           | w.        | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 45                      | 42.4                         | +12.5                     | 73      | 14   | 23     | 31   | 27                       | 4.70  | +0.73                     | 1.30                 | T.                        | 12                           | 5     | 6          | 20                           | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 40.2                         | +13.2                     | 70      | 14   | 19     | 31   | 30                       | 4.18  | +0.83                     | 1.13                 | T.                        | 12                           | 6     | 5          | 20                           | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 38.6                         | +13.1                     | 65      | 13   | 16     | 31   | 34                       | 6.56  | +3.02                     | 1.29                 | 2.5                       | 15                           | 7     | 3          | 21                           | w.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 42.6                         | +13.0                     | 71      | 13   | 24     | 26   | 31                       | 3.76  | +0.72                     | 1.16                 | T.                        | 12                           | 6     | 6          | 19                           | n.        | Ira J. Keith.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 35.9                         | +12.0                     | 70      | 14   | 14     | 31   | 30                       | 4.55  | +0.98                     | 0.92                 | 8.5                       | 19                           | 3     | 7          | 21                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 42.6                         | +12.0                     | 75      | 14   | 24     | 31   | 41                       | 3.93  | +0.73                     | 0.70                 | T.                        | 12                           | 7     | 12         | 12                           | w.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 59                      | 42.6                         | +13.2                     | 74      | 14   | 22     | 31   | 33                       | 4.68  | +1.56                     | 2.09                 | T.                        | 14                           | 5     | 6          | 20                           | w.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 28                      | 40.0                         | +13.7                     | 71      | 14   | 18     | 26   | 37                       | 4.51  | +0.69                     | 0.80                 | 1.0                       | 15                           | 9     | 4          | 18                           | w.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 33.0                         |                           | 62      | 13   | 10     | 31   | 30                       | 5.61  | +2.42                     | 2.60                 | 5.0                       | 11                           | 12    | 9          | 10                           | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 39                      | 40.8                         | +12.5                     | 69      | 14   | 22     | 31   | 31                       | 4.81  | +1.30                     | 1.83                 | T.                        | 10                           | 8     | 10         | 13                           | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 44.4                         | +12.3                     | 79      | 14   | 22     | 31   | 34                       | 3.71  | +0.54                     | 1.22                 | T.                        | 13                           | 7     | 7          | 17                           | nw.       | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 42.5                         | +13.5                     | 73      | 14   | 20     | 31   | 28                       | 4.00  | +0.91                     | 1.75                 | T.                        | 15                           | 5     | 8          | 18                           | w.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 36.0                         | +11.4                     | 68      | 13   | 15     | 5    | 33                       | 3.70  | +1.12                     | 0.62                 | 5.5                       | 14                           | 8     | 6          | 17                           | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 43.9                         | +13.8                     | 75      | 15   | 28     | 26   | 33                       | 3.67  | +0.39                     | 1.13                 | 2.0                       | 12                           | 5     | 9          | 17                           |           | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 41.4                         | +12.9                     | 75      | 14   | 20     | 31   | 31                       | 4.20  | +0.97                     | 0.94                 | 1.0                       | 12                           | 5     | 6          | 20                           | nw.       | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 42.4                         | +12.3                     | 79      | 14   | 20     | 31   | 39                       | 3.72  | +0.59                     | 0.92                 | 1.0                       | 13                           | 4     | 4          | 23                           |           | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 40.0                         | +10.3                     | 70      | 13   | 19     | 26   | 35                       | 4.29  | +1.05                     | 1.15                 | 0.7                       | 11                           | 10    | 10         | 11                           | nw.       | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 37.4                         | +12.8                     | 68      | 14   | 17     | 31   | 36                       | 2.04  | +0.07                     | 0.65                 | 2.0                       | 7                            | 7     | 4          | 20                           |           | C. F. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 42.0                         | +13.2                     | 74      | 14   | 23     | 31   | 34                       | 3.87  | +0.42                     | 0.92                 | T.                        | 12                           | 6     | 12         | 13                           | w.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 56                      | 41.1                         | +14.8                     | 74      | 13   | 19     | 31   | 35                       | 4.31  | +1.31                     | 1.43                 | 1.2                       | 17                           | 9     | 5          | 17                           | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 42.4                         | +15.0                     | 71      | 14   | 18     | 31   | 30                       | 4.40  | +1.26                     | 0.88                 | 0.5                       | 17                           | 4     | 8          | 19                           | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 40.8                         | +13.1                     | 75      | 14   | 18     | 26   | 39                       | 4.35  | +1.16                     | 1.16                 | T.                        | 15                           | 8     | 6          | 17                           | ne.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 45.5                         |                           | 74      | 14   | 26     | 31   | 36                       | 5.34  |                           | 1.46                 | T.                        | 8                            | 6     | 7          | 18                           | sw.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 39.4                         | +12.1                     | 74      | 14   | 18     | 31   | 37                       | 4.77  | +1.03                     | 1.05                 | 1.5                       | 14                           | 7     | 7          | 17                           | n.        | R. K. Wintermute.           |
| Mifflintown        | Juniata      | 445             | 28                      | 41.2                         | +13.3                     | 76      | 14   | 20     | 31   | 33                       | 4.38  | +1.45                     | 1.35                 | 0.8                       | 16                           | 9     | 0          | 22                           | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 28                      | 35.4                         | +14.4                     | 67      | 13   | 14     | 11   | 30                       | 3.72  | +1.13                     | 0.80                 | 5.0                       | 10                           | 6     | 6          | 19                           | sw.       | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 33.0                         | +10.2                     | 68      | 14   | 9      | 31   | 25                       | 2.80  | -0.93                     | 0.60                 | 6.0                       | 11                           | 6     | 10         | 15                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 37.4                         | +12.8                     | 68      | 13   | 18     | 31   | 29                       | 5.08  | +1.88                     | 0.93                 | 2.0                       | 14                           | 8     | 7          | 16                           | nw.       | H. O. Hacker.               |
| Neshaminy Falls II | Bucks        | 60              | 43                      | 42.0                         | +14.0                     | 74      | 14   | 18     | 31   | 38                       | 4.47  | +1.35                     | 1.12                 | 0.2                       | 14                           | 9     | 2          | 20                           | sw.       | North Springfield Water Co. |
| Neshaminy Falls I  | Carbon       | 398             | 14                      | 40.2                         |                           | 70      | 14   | 18     | 31   | 32                       | 3.67  | +1.10                     | 1.36                 | 0.4                       | 13                           | 9     | 9          | 13                           | sw.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 46.2                         | +13.6                     | 73      | 14   | 23     | 31   | 28                       | 4.69  | +1.39                     | 1.22                 | 0.7                       | 12                           | 5     | 7          | 19                           | nw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn   | Philadelphia | 113             | 8                       | 45.7                         |                           | 72      | 14   | 22     | 31   | 28                       | 4.45  |                           | 1.10                 | 1.0                       | 12                           | 5     | 12         | 14                           |           | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 44.2                         | +12.5                     | 70      | 15   | 22     | 31   | 26                       | 4.31  | +1.20                     | 1.12                 | 0.5                       | 13                           |       |            |                              |           | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 22                      | 44.2                         | +14.1                     | 73      | 14   | 20     | 25   | 34                       | 4.55  | +0.89                     | 1.10                 | T.                        | 11                           | 7     | 17         | 7                            | w.        | North Springfield Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 41.0                         | +15.1                     | 70      | 14   | 22     | 31   | 33                       | 4.38  | +0.90                     | 1.32                 | T.                        | 12                           | 5     | 11         | 15                           | nw.       | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 43.0                         | +13.6                     | 71      | 14   | 18     | 31   | 24                       | 3.56  | -0.01                     | 1.30                 | T.                        | 13                           | 2     | 8          | 21                           | w.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 39.6                         | +13.0                     | 69      | 13   | 19     | 31   | 27                       | 3.35  | +0.32                     | 0.64                 | 1.0                       | 18                           | 3     | 9          | 19                           | sw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 41.0                         | +12.6                     | 72      | 13   | 21     | 31   | 31                       | 4.35  | +1.31                     | 1.48                 | 2.0                       | 15                           | 7     | 6          | 18                           | sw.       | Dr. George E. Fisher.       |
| Shawmont II        | Philadelphia | 51              | 36                      | 44.3                         | +13.9                     | 70      | 13   | 27     | 11   | 30                       | 4.65  | +1.37                     | 1.12                 | T.                        | 13                           | 12    | 5          | 14                           | uw.       | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 38.6                         | +12.3                     | 70      | 14   | 16     | 31   | 23                       | 4.34  | +1.35                     | 0.75                 | 3.4                       | 14                           | 4     | 6          | 21                           | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 18                      | 38.2                         | +11.7                     | 72      | 14   | 21     | 29   | 37                       | 3.70  | +0.59                     | 0.62                 | 2.0                       | 17                           | 8     | 6          | 17                           | nw.       | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 38.5                         | +13.4                     | 60      | 13   | 18     | 31   | 29                       | 3.16  | +1.10                     | 0.53                 | 4.2                       | 14                           | 4     | 10         | 17                           | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 36.5                         | +12.7                     | 68      | 14   | 14     | 31   | 37                       | 3.61  | +1.12                     | 0.67                 | 4.7                       | 13                           | 7     | 5          | 19                           | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 43.8                         | +13.6                     | 72      | 14   | 24     | 31   | 31                       | 5.59  | +1.80                     | 1.40                 | 1.0                       | 11                           | 9     | 6          | 16                           | w.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 40.2                         | +12.9                     | 70      | 13   | 21     | 31   | 31                       | 4.39  | +1.44                     | 1.55                 | T.                        | 10                           | 16    | 9          | 11                           | nw.       | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 42.9                         | +13.3                     | 75      | 14   | 22     | 26   | 39                       | 3.58  | +0.66                     | 1.25                 | T.                        | 14                           | 13    | 5          | 13                           | w.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam II      | Beaver       | 700             | 40                      | 41.1                         | +11.3                     | 68      | 14   | 15     | 31   | 35                       | 6.07  | +3.19                     | 0.85                 | T.                        | 19                           | 5     | 7          | 19                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 37.6                         | +13.6                     | 67      | 15   | 17     | 27   | 39                       | 7.48  | +4.21                     | 1.40                 | 3.5                       | 16                           | 10    | 5          | 16                           |           | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 40.4                         |                           | 71      | 14   | 13     | 31   | 40                       | 6.06  |                           | 1.10                 | T.                        | 11                           | 7     | 9          | 15                           | w.        | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 2                       |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



Daily Precipitation for January, 1932

| Stations           | Drainage Basin | Day of month |      |     |     |     |      |     |     |     |     |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      | Total |      |
|--------------------|----------------|--------------|------|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2    | 3   | 4   | 5   | 6    | 7   | 8   | 9   | 10  | 11 | 12  | 13  | 14  | 15   | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |      |     |     |     |      |     |     |     |     |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Allentown          | Lehigh         | .03          | .66  | .20 |     |     | .28  | .97 |     | .45 |     |    |     | .02 |     |      | T.  | .02 |     |     |     | .02 | .01 | .30 |     |     | .17 |     |     | .28 | .01 | 3.42 |       |      |
| Altoona            | Juniata        | .74          | .46  | .03 |     |     | .63  | .12 | .02 | T.  |     |    |     | .05 |     | .20  | .59 | .04 | .32 | T.  |     | .02 | .04 | .87 | .04 |     | .01 | .30 |     | T.  | .70 |      | 4.22  |      |
| Ansonia            | W. Br. Susq.   | T.           | 1.19 | T.  |     |     | .09  | .11 |     |     |     | T. |     |     |     |      |     |     |     |     |     | .02 | .28 | .02 | .23 |     | T.  | .27 |     | T.  | .31 |      | 3.70  |      |
| Ardmore            | Lower Del.     | .88          | .46  | .02 |     |     | .76  | .46 | .49 | .40 | .38 |    |     |     |     |      |     |     |     |     |     | .02 |     | .35 |     |     | .24 |     | .46 |     | .20 |      | 4.73  |      |
| Arendtsville       | Lower Susq.    | 1.49         |      |     |     | .85 | .38  |     | .25 |     |     |    |     | .12 |     | .02  |     |     |     |     |     | T.  |     | .35 |     |     |     |     |     |     |     |      | 4.09  |      |
| Baker's Summit     | Juniata        | .80          | .48  |     |     |     | .71  |     | .13 |     |     |    |     | .04 |     | .01  |     | .06 | .05 |     |     |     | .85 | .01 |     |     | .18 |     | .65 |     |     |      | 3.87  |      |
| Bedford            | Juniata        | .76          | .49  |     |     |     | .51  |     | .06 | .01 |     |    |     | .09 |     | .06  |     | T.  |     |     |     | T.  | T.  | .56 |     |     | .02 | .14 |     | .05 | .40 |      | 3.15  |      |
| Bellefonte         | W. Br. Susq.   | .63          | .31  | T.  | T.  | T.  | .50  | .03 | .01 |     | T.  |    | T.  | .01 |     | .03  | .02 | .12 | T.  | 1   |     | .12 | .02 | .43 |     | T.  | .15 | .04 | .30 | .34 | T.  | 3.06 |       |      |
| Bethlehem          | Lehigh         | .43          | .41  | T.  |     |     | .72  | .55 | .24 | .23 | .01 |    |     | T.  |     | .02  |     | T.  |     |     |     | .03 | .02 | .24 | .03 |     | .22 |     | .01 | .35 |     | 3.55 |       |      |
| Blosserville       | Lower Susq.    | 1.50         | .55  |     |     |     | 1.55 |     | .32 |     |     |    |     | .25 |     | .05  | T.  |     | .02 | .02 |     |     | .05 |     | .45 |     | .25 |     | .08 | .28 |     | 5.33 |       |      |
| Buffalo Mills      | Juniata        | .30          | .89  |     |     |     | .50  |     |     | .16 |     |    |     | .13 |     |      |     |     |     |     |     |     |     |     | .75 |     | .25 |     | .50 |     | .28 |      | 3.48  |      |
| Carlisle           | Lower Susq.    | 1.60         | .48  |     |     |     | .75  | .12 | .14 | .09 |     |    |     | .28 |     | .03  | T.  |     |     |     |     | .03 | T.  | .36 |     |     | T.  | .14 |     | .35 |     |      | 4.37  |      |
| Catawissa          | N. Br. Susq.   | .69          | .40  |     |     |     | .79  |     | .28 |     |     |    |     | .26 |     | .05  | T.  | .02 | .08 |     |     |     | .03 | T.  | .35 |     |     | .05 | .17 |     | .20 | .32  | 3.69  |      |
| Center Hall        | Susquehanna    | .24          | .22  |     |     |     | .12  |     | .12 |     |     |    |     | .12 |     | .06  |     |     |     |     |     | .12 | .78 |     |     |     | .02 | .48 |     | .02 | .48 |      | 1.98  |      |
| Chambersburg       | Potomac        | 1.35         | .24  |     |     |     | .78  | .08 | .18 | .03 |     |    |     | .14 |     | .06  |     | .75 | .03 | .35 | .55 |     | .15 | .50 |     | T.  | .05 | .32 | .15 | .40 |     |      | 6.02  |      |
| Clearfield         | W. Br. Susq.   | .55          | .75  | T.  |     |     | .62  | .05 |     |     | T.  |    |     |     |     | .01  |     | T.  | T.  | T.  |     |     | .23 |     |     |     |     | .41 | .01 | .30 |     |      | 4.70  |      |
| Coatesville        | Lower Del.     | 1.30         | .15  |     |     |     | 1.00 | .53 | .37 | .25 | .14 |    |     | .10 |     | T.   | T.  | T.  | T.  |     |     | .04 | T.  | .27 | T.  |     | T.  | .19 | .01 | .39 |     |      | 4.18  |      |
| Colebrook          | Lower Susq.    | 1.07         | .45  | T.  |     |     | 1.13 | .21 | .23 | .09 |     |    |     |     |     | T.   |     |     |     |     |     | T.  |     | .19 |     |     |     | .20 | .11 |     |     |      | 4.04  |      |
| Conshohocken       | Schuylkill     | .15          | .80  |     |     |     | .80  | .26 | *   | .42 | .64 |    |     |     |     |      |     |     |     |     |     |     |     | .19 |     |     |     | .47 |     | .20 | .11 |      |       |      |
| Cresson            | Juniata        |              |      |     |     |     | .79  | .64 | .26 | .25 | .09 |    |     |     |     | T.   | T.  | .09 | .78 | .26 |     | .02 | T.  | .19 | T.  |     |     | .41 |     | T.  | .27 |      | 4.07  |      |
| Doylestown         | Lower Del.     | .70          | .45  |     |     |     | .45  |     |     |     |     |    | T.  | .11 |     | 1.29 | .09 | .78 | .26 |     |     | .52 | .19 | .48 |     | T.  | .15 | .24 | .02 | .52 | T.  |      | 6.56  |      |
| Emporium           | W. Br. Susq.   | .71          | .75  |     |     |     | .45  |     |     |     |     |    |     | .02 |     | T.   |     |     |     |     |     | .03 |     | .21 |     |     |     | .21 | .02 | .41 |     |      | 3.76  |      |
| Ephrata            | Lower Susq.    | .93          | .16  | T.  |     |     | 1.16 | .22 | .29 | .10 | T.  |    |     |     |     | T.   |     | .18 | .06 | .61 |     |     | .71 | .21 | .49 |     | .04 | .11 |     | .06 | .61 | T.   | 4.93  |      |
| Forest City        | N. Br. Susq.   | .06          | .46  | .61 | .15 |     | .27  | .30 |     |     | .10 |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Freeland           | Lehigh         | .08          | .72  | .34 | .04 |     | .20  | .72 |     | .38 |     |    |     | .31 | .01 |      | .06 | .02 | .25 |     | T.  |     | .21 | .02 | .33 |     | T.  | .31 | .01 |     | .52 | .02  | 4.55  |      |
| Gaileton           | W. Br. Susq.   | .75          | .64  |     |     |     | .43  |     |     |     |     |    |     | .08 |     | 1.35 |     | .19 | .30 |     |     | .33 | .08 | .30 |     |     |     | .41 |     | .38 |     |      | 5.24  |      |
| George School      | Lower Del.     | .42          | .32  |     |     |     | .70  | .53 | .35 | .40 | .30 |    |     |     |     | .04  |     |     |     |     |     |     | .33 | .01 |     | .01 | .27 |     | .01 | .29 |     |      | 4.68  |      |
| Gettysburg         | Potomac        | 2.09         | .49  |     |     |     | .82  | .04 | .22 | .03 |     |    |     | .03 |     | .04  |     |     |     |     |     | .02 |     | .34 |     |     | .41 |     |     | .51 |     |      | 4.17  |      |
| Girardville        | Lower Susq.    | 1.04         |      |     |     |     | .94  |     | .13 | .34 |     |    | .34 |     |     | .02  | T.  | .08 |     |     |     | .03 | .02 | .24 | .05 |     | .42 |     | .52 |     |     |      | 4.51  |      |
| Gordon             | Lower Susq.    | .80          | .53  | .02 |     |     | .77  | .33 | .35 |     |     |    |     | .32 |     | .06  |     |     | .05 |     |     |     | .20 | .25 | .30 |     | .60 |     | .18 |     |     |      | 5.61  |      |
| Gouldsboro         | Lehigh         |              | .36  | .09 |     |     | 2.60 |     | .18 |     |     |    |     | .25 |     |      |     |     | .60 |     |     |     | .01 | .17 |     |     |     | .38 |     | .06 | .19 |      |       | 4.39 |
| Graterford         | Schuylkill     | .84          | .58  |     |     |     | .70  | .61 | .26 | .28 | .31 |    | T.  |     |     | .01  |     |     |     |     |     | T.  |     | .33 |     |     |     | .27 | T.  | .40 |     |      | 4.81  |      |
| Hamburg            | Schuylkill     | .86          | .53  |     |     |     | 1.83 |     | .20 |     | .08 |    |     | .30 |     | .02  |     | .03 |     | T.  | T.  |     | T.  |     |     |     |     | .18 |     | .07 | .31 |      |       | 3.71 |
| Hanover            | Lower Susq.    | 1.22         | .28  | T.  |     |     | .85  | .15 | .26 | .11 | T.  |    |     | .02 |     | .03  |     | T.  | T.  |     |     | .04 | T.  | .35 |     |     | .07 | .07 | .21 | .12 |     |      | 4.00  |      |
| Harrisburg         | Lower Susq.    | 1.41         | .34  | T.  |     | .02 | 1.02 | .06 | .20 | .04 | T.  |    | T.  |     |     | .04  |     | .01 | T.  | T.  |     |     | T.  | .62 | .08 | .48 | T.  | T.  | .08 | T.  |     | .29  | T.    | 3.70 |
| Hawley             | Upper Del.     |              | .56  | .60 |     |     | .06  | .25 |     | .20 |     |    |     | .04 | .08 |      |     | T.  | .07 | .29 |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Hollisterville     | Upper Del.     | T.           | .86  | .62 |     |     | .08  | .41 |     | .21 |     |    |     | .12 | .03 |      | .02 | .04 | .30 | T.  |     |     | .65 | .07 | .52 |     | .01 | .15 |     | T.  | .41 | .02  | 4.52  |      |
| Holtwood           | Lower Susq.    | .40          | 1.13 |     |     |     | .35  | .48 | .10 | .35 | .13 |    |     | T.  |     |      | .05 |     |     |     |     | T.  | .03 | .12 |     |     | .02 | .26 | T.  | .38 |     |      | 3.67  |      |
| Huntingdon         | Juniata        | .94          | .55  | T.  |     |     | .70  |     | .18 | .02 |     |    |     |     |     | T.   |     | .15 | .03 |     |     | .04 | T.  | .02 | .70 | T.  | T.  | .22 |     | T.  | .65 |      | 4.20  |      |
| Hyndman            | Potomac        | .72          | .40  |     |     |     | .59  |     | .10 | .03 |     |    |     | .07 |     | .02  |     | T.  |     |     |     | .50 | .14 |     | .92 | .05 | T.  | .23 |     | .18 | .39 |      | 3.72  |      |
| Kylertown          | W. B. Susq.    | .07          | .06  |     |     |     | .40  |     |     |     | T.  |    |     |     |     | .35  | T.  | .11 |     |     |     |     | .14 |     |     |     | T.  | .23 |     | .59 |     |      | 2.45  |      |
| Lakeville          | Upper Del.     | .01          | .72  | .68 |     |     | .10  | .29 |     | .23 |     |    |     | .10 |     | .35  | .03 | .08 | .28 |     |     |     | .64 | .10 | .51 |     | .08 |     | .01 | .35 | .02 |      | 4.23  |      |
| Lancaster          | Lower Susq.    | 1.15         | .65  |     |     |     | .75  | .35 | .27 | .14 | .07 |    |     |     |     |      |     |     |     |     |     |     | .23 |     |     |     | .20 |     | .06 | .42 |     |      | 4.29  |      |
| Lansford           | Lehigh         |              | .74  | .18 |     |     | .39  | .64 |     | .28 |     |    |     | .14 | .12 |      | .01 |     | .05 |     |     |     | .04 | .03 | .20 |     | T.  | .26 |     | .41 | T.  |      | 3.49  |      |
| Lawrenceville      | N. Br. Susq.   | .34          | .45  |     |     |     | T.   |     |     |     | T.  | T. |     |     |     | .65  |     | T.  | .05 |     |     | .25 | T.  | .20 | T.  | T.  | T.  |     | .10 |     |     |      | 2.04  |      |
| Lebanon            | Lower Susq.    | .92          | T.   | T.  | T.  | .75 | .69  |     | .32 | T.  |     |    | .02 | .24 |     | T.   | T.  | T.  |     |     |     | .04 | .03 | .25 |     | .21 | T.  |     | .38 | .02 |     |      | 3.87  |      |
| Lewisburg          | W. Br. Susq.   | 1.43         | .65  | .03 |     |     | .55  | .19 | .06 | .05 |     |    |     | .06 |     | .05  | T.  | .08 | .07 |     |     |     | T.  | .06 | .45 | .03 |     | .18 |     | .03 | .34 |      |       | 4.31 |
| Lloyd              | do             |              |      |     |     |     |      |     |     |     |     |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Lock Haven         | W. Br. Susq.   | .88          | .52  |     |     |     | .39  | .20 | .02 | .02 |     |    |     | .03 |     | .15  |     | .25 | .09 |     |     | .08 | .21 | .44 | .07 |     | .20 |     | .07 | .78 |     |      | 4.40  |      |
| Lykens             | Susquehanna    | 1.16         | .52  | T.  |     |     | .73  | .26 | .15 | .11 |     |    |     | .34 |     | .06  |     |     |     |     |     | .01 | .02 | .27 | .04 |     | .18 |     | .04 | .46 |     |      | 4.35  |      |
| Marcus Hook        | Lower Del.     | 1.44         |      |     |     |     | 1.46 |     | .75 | .63 |     |    |     |     |     |      |     |     |     |     |     | .22 |     |     |     |     | .53 |     | .18 | .13 |     |      | 5.34  |      |
| Mauch Chunk        | Lehigh         | .70          | .42  |     |     |     | 1.05 | .36 |     |     |     |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |       |      |



## Daily Precipitation for January, 1932—Continued from page 3

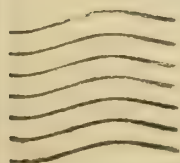
| Stations        | Drainage Basin | Day of month |      |     |     |      |     |     |     |     |    |     |     |     |     |      |      |      |      |     |    |     |     |     |     |     |     |     |      |      |      |      | Total |
|-----------------|----------------|--------------|------|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|------|------|------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|
|                 |                | 1            | 2    | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10 | 11  | 12  | 13  | 14  | 15   | 16   | 17   | 18   | 19  | 20 | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29   | 30   | 31   |       |
| Ohio Drainage.  |                |              |      |     |     |      |     |     |     |     |    |     |     |     |     |      |      |      |      |     |    |     |     |     |     |     |     |     |      |      |      |      |       |
| Beaver Dam      | Ohio           | .85          | .20  | .24 | .01 |      | .49 | .02 |     |     |    |     |     | .04 |     | .80  | .24  | .13  | .55  | .01 |    | .04 | .49 | .49 | .42 |     |     | .21 | T.   | .03  | .81  | 6.07 |       |
| Beaver Falls    | Beaver         | .73          | .21  | .19 | .01 |      | .40 | T.  |     |     |    |     |     | T.  |     | .53  | .21  | .08  | .55  |     |    | .05 | .49 | .40 | .37 |     |     | .14 | T.   | .01  | .71  | 5.08 |       |
| Bradford        | Allegheny      |              |      |     |     |      |     |     |     |     |    |     |     |     |     |      |      |      |      |     |    |     |     |     |     |     |     |     |      |      |      |      | 7.41  |
| Brookville      | do             | .25          | 1.40 | .21 | .07 |      | .49 | .12 |     |     |    | T.  |     | T.  |     | .40  | 1.09 | .25  | 1.05 | T.  |    |     | .49 | .35 | .47 |     |     | .20 | .16  |      | .48  | 6.06 |       |
| Butler          | Ohio           | 1.10         | .29  |     |     |      | .54 |     |     |     |    |     |     |     |     | .82  |      | .85  |      |     |    | .10 | .85 | .56 |     |     | .20 |     | .05  | .70  | 4.86 |      |       |
| Chambersville   | Allegheny      | .56          | .68  | .11 | .01 |      | .58 |     |     |     |    |     |     |     |     | .25  | T.   | .13  | .37  |     |    | .22 | .52 | .59 |     |     | .03 | .12 | .02  | .67  | 3.76 |      |       |
| Clairton        | Monongahela    | 1.17         | .15  | T.  |     | .16  | .35 |     |     |     |    |     |     | T.  | T.  | .05  | .07  | .15  |      |     |    | .03 | .12 | .69 |     |     | T.  | .01 | .41  | .40  | 4.66 |      |       |
| Claysville      | Ohio           | 1.11         | .19  | T.  |     |      | .62 | .01 |     |     |    |     |     |     |     | .38  | T.   | .16  | .24  |     |    | .02 | .12 | .66 |     |     | .02 | .11 | .09  | .93  | 4.98 |      |       |
| Clymer          | Conemaugh      | .40          |      | .30 |     |      | .65 |     |     |     |    |     |     |     |     |      | .15  |      | .58  |     |    | .92 | .73 | .10 |     |     |     | .15 |      | .90  | T.   | 4.98 |       |
| Confluence      | Youghiogheny   | .08          | .40  | .15 |     |      | .72 | .20 |     | .05 |    |     |     | .04 |     | .60  | .10  | .90  | .20  |     |    | .55 | .75 | .10 |     |     | .20 | .35 | .02  | .40  | .12  | 3.96 |       |
| Corry           | Allegheny      | .20          | 1.00 | .15 | .05 | .02  | .35 |     |     |     | T. |     |     | .07 |     | .25  | .89  | .14  | .46  | .05 |    | .51 | .06 | .30 |     | .01 | .27 | .03 | .45  |      | .04  | 5.04 |       |
| Coudersport     | Allegheny      | 1.22         |      |     |     | .20  | .11 |     |     |     |    |     | .05 |     |     | .89  | .14  | .46  | .05  |     |    | .51 | .06 | .30 |     |     | .27 | .03 | .45  |      |      | 5.04 |       |
| Derry           | Conemaugh      | .75          | .45  | .05 |     |      | .54 | .09 |     |     |    |     |     |     |     | .25  | .25  |      | .05  | .28 |    | T.  | .23 | .62 | .05 |     | .09 |     | .22  | 1.37 |      | 3.99 |       |
| Donora          | Monongahela    | .98          | .20  | .04 |     |      | .64 | .01 |     |     |    |     |     | .01 |     | .06  | .03  | .02  | .23  |     |    | T.  | .08 | .46 | .13 |     | T.  | T.  | T.   | 1.00 |      | 3.56 |       |
| Ebensburg       | Conemaugh      | .38          | .61  | .10 | T.  |      | .52 | .06 |     |     |    |     |     | .02 |     | .09  |      | .16  |      |     |    | .05 | .10 | .50 | .09 |     | T.  | T.  | T.   | .80  |      | 5.18 |       |
| Elk Lick        | Youghiogheny   |              |      |     |     | 1.80 |     |     |     |     |    |     |     | .27 |     |      |      |      |      |     |    |     |     |     |     |     |     | .10 |      | .73  | .80  |      |       |
| Falls Creek     | Allegheny      | .43          | .60  |     |     |      | .60 |     |     |     |    |     |     | .04 |     | 1.15 | .05  | .51  |      |     |    | .30 | .48 | .50 |     |     | .06 | .12 | .05  | .66  | T.   | 5.55 |       |
| Franklin        | Allegheny      | .70          | .27  | .13 | .04 |      | .54 | .19 |     |     |    |     |     | .05 |     | .35  | .57  | .35  | .88  | T.  |    | .03 | .77 | .14 | .33 |     | .37 |     | .05  | .89  | T.   | 6.34 |       |
| Freeport        | do             | .87          | .30  | .11 | .01 |      | .63 | .01 |     |     |    |     |     | .01 |     | .27  | .23  | .13  | .53  |     |    | .04 | .46 | .41 | .43 |     | .16 |     | .05  | .89  | T.   | 5.54 |       |
| Greensboro      | Monongahela    | .46          | .16  | .06 | T.  |      | .62 | .20 |     |     |    |     |     | .06 |     | .01  | .10  | T.   | .09  |     |    | T.  | .03 | .05 | .51 |     | .21 |     | T.   | 1.20 |      | 3.76 |       |
| Greensburg      | Youghiogheny   | .70          | .45  | .05 | .01 |      | .72 | .08 |     |     |    |     |     | .06 |     | .18  | T.   | .06  | .28  |     | T. | .07 | .20 | .64 | .04 |     | .05 | .17 | T.   | .04  | 1.24 | 5.04 |       |
| Greenville      | Beaver         | 1.10         | .10  | .06 | T.  | T.   | .15 |     |     |     |    |     |     |     |     | 1.54 | .14  | .78  | T.   | .08 |    | .31 | .52 | .27 | .20 |     | .09 | .30 | .09  | .75  | .05  | 6.53 |       |
| Grove City      | do             | 1.13         | .27  | .03 |     |      | .68 |     |     |     |    |     |     | .05 |     | 1.03 | .14  | 1.00 | .39  |     |    | .41 | .53 | .33 |     |     | .42 |     | .68  | T.   | 7.04 |      |       |
| Herr's Isl. Dam | Ohio           | 1.07         | .16  | .22 | .01 |      | .57 | .07 |     |     |    |     |     | .02 |     | .11  | .04  | .12  | .28  | T.  |    | T.  | .18 | .21 | .57 |     | .13 |     | .04  | .77  |      | 4.57 |       |
| Ingram          | Ohio           | 1.40         | .24  | .01 | T.  |      | .69 | T.  |     |     |    |     | T.  | .02 |     | .15  | T.   | .31  | .26  |     | T. | .09 | .11 | .85 | .01 |     | .06 | .07 |      | .06  | .81  |      | 5.14  |
| Irwin           | Monongahela    | .84          | .20  | .06 |     |      | .69 | .02 |     |     |    |     |     | .01 |     | .09  | .04  | .09  | .13  |     |    | .05 | .35 | .47 | .03 |     | .06 | .16 |      | .03  | .80  |      | 4.12  |
| Johnstown       | Conemaugh      | .30          | .58  | .06 |     |      | .76 | .06 | .04 |     | T. |     |     | .01 | .03 | .18  | .07  | .10  | .15  |     |    | .11 | .18 | .64 |     |     | .14 | .14 | T.   | .02  | .75  | 4.32 |       |
| Kregar          | Youghiogheny   | .50          | .38  |     |     | .58  | .10 |     |     |     |    |     |     | .06 |     | .24  |      | .22  |      |     |    | .03 | .06 | .49 |     |     | .20 |     | 1.13 | .03  |      | 4.02 |       |
| Lake Lynn       | Monongahela    | T.           | .15  | .30 | .16 | .02  | T.  | .48 | .10 |     |    |     |     | .02 |     | .12  |      | .14  |      |     |    | .02 | .05 | .07 | .52 | T.  |     | .23 |      | 1.08 | T.   | 3.46 |       |
| Linesville      | Beaver         | .57          | .35  | .21 |     | .03  | .44 |     |     |     |    |     | .05 |     | .05 | .15  | .78  | .38  | .54  |     |    | T.  | .73 | .03 | .23 |     | .35 | .07 | .23  | .67  | .08  | 5.94 |       |
| Lock No. 2      | Ohio           | 1.07         | .21  | .22 | .02 |      | .54 | .07 |     |     |    |     |     | .03 |     | .25  | .15  | .10  | .48  |     |    | T.  | .26 | .33 | .47 |     | .17 | T.  | .05  | .79  |      | 5.21 |       |
| Lock No. 4      | Monongahela    | 1.00         | .16  | .13 | T.  |      | .67 | .02 |     |     |    |     |     | .02 |     | .06  | .06  | .02  | .25  |     |    |     | .07 | .10 | .49 | T.  |     |     | .01  | 1.06 |      | 4.12 |       |
| Lycippus        | Conemaugh      | .45          | .55  | .09 |     |      | .65 |     |     |     |    |     |     |     |     | .07  | .03  | .17  |      |     |    | .13 | .49 | .07 |     | .07 |     | .17 | 1.53 |      | 4.47 |      |       |
| McKeesport      | Monongahela    | .62          | .38  | .18 | T.  |      | .79 | .01 |     |     |    |     |     | T.  |     | .02  | .04  | .18  | .10  |     |    | T.  | .06 | .16 | .55 |     | .07 |     | .04  | .88  |      | 4.08 |       |
| Meadville       | Allegheny      | .82          | .32  | .04 |     | .03  | .37 |     |     |     | T. | T.  |     | .05 |     | 1.25 | .10  | .80  | .17  | T.  |    | .28 | .64 | .18 | .06 |     | .08 | .34 | .03  | .78  | .03  | 6.37 |       |
| Mount Lebanon   | Ohio           | 1.29         | .14  | .04 | T.  |      | .56 | .13 |     |     |    |     |     | T.  |     | .14  | T.   | .20  | .22  |     | T. | .05 | .13 | .73 | .02 |     | .04 | .08 |      | .07  | .81  | 4.70 |       |
| Natrona         | Allegheny      | .82          | .28  | .12 | .02 |      | .65 | .03 |     |     |    |     |     | .02 |     | .27  | .12  | .10  | .45  |     |    | .01 | .42 | .40 | .50 |     | .18 |     | .04  | .93  |      | 5.36 |       |
| New Castle      | Beaver         | .95          | .23  | .13 | .02 |      | .50 | .03 |     |     |    |     |     | .06 |     | .91  | .10  | .26  | .72  | T.  |    | .06 | .84 | .31 | .18 |     | .30 |     | .06  | .56  |      | 6.22 |       |
| Newell          | Monongahela    | 1.00         | .25  |     |     |      | .71 | .09 |     |     |    |     |     | .04 |     | .04  |      | .23  |      |     |    | .05 | .59 |     |     |     |     |     |      | 1.00 |      | 4.00 |       |
| Parkers Landing | Allegheny      | .75          | .28  | .10 | T.  |      | .56 | T.  |     |     |    |     |     | T.  |     | .81  | .32  | .67  | .95  | T.  |    | T.  | .84 | .25 | .30 |     | .27 | T.  | T.   | .72  | T.   | 6.82 |       |
| Pennline        | Beaver         | .66          | .30  | .20 |     |      | .31 | T.  |     |     |    |     | .01 |     | .04 | .25  | .16  | .29  | .56  | .01 |    | T.  | .70 | .02 | .18 | T.  |     | .35 |      | .63  | .10  | 4.77 |       |
| Pittsburgh      | Ohio           | 1.39         | .25  | .01 |     | .14  | .54 |     |     |     |    |     |     | T.  | .02 | .13  | .20  | .25  |      |     |    | T.  | .06 | .21 | .75 |     | .08 | .01 |      | .41  | .35  | T.   | 4.80  |
| Punxsutawney    | Allegheny      | .18          | .70  | .18 | .02 |      | .74 |     |     |     |    |     |     |     |     | .43  | .27  | .28  | .98  |     |    | T.  | .74 | .34 | .39 |     |     |     |      | .98  |      | 6.23 |       |
| Ridgway         | do             | .25          | .96  | .13 | .04 |      | .26 | .02 |     |     | T. | .02 |     | .08 |     | .60  | .83  | .23  | .93  | .04 |    | T.  | .73 | .13 | .41 |     | .20 | .02 |      | .64  |      | 6.52 |       |
| Saltsburg       | Conemaugh      | .64          | .60  | .16 | .02 |      | .62 | .03 |     |     |    |     |     | .01 |     | .01  | .08  | .12  | .21  |     |    | T.  | .29 | .33 | .41 |     | .18 |     | T.   | 1.03 |      | 4.74 |       |
| Sharon          | Beaver         | .64          | .31  | .09 |     |      | .44 | T.  |     |     |    |     | .01 |     |     | .64  | .06  | .30  | .40  | T.  |    | .02 | .68 | .09 | T.  |     | .50 |     | .55  |      | 4.73 |      |       |
| Somerset        | Youghiogheny   | .28          | .22  | .07 | T.  |      | .62 | .12 | .02 |     |    |     |     | T.  |     | .21  |      |      | .10  |     |    |     | .72 | .07 |     | T.  | .20 |     | .01  | .78  |      | 3.42 |       |
| Springdale      | Allegheny      | .92          | .20  | .29 | .02 |      | .68 | .05 |     |     |    |     |     | .02 |     | .15  | .11  | .11  | .38  |     |    | .01 | .36 | .37 | .56 |     | .16 |     | .07  | .86  |      | 5.32 |       |
| Uniontown       | Monongahela    | .65          | .25  | .02 |     |      | .48 | .25 |     |     |    |     |     | .06 |     | .32  | .02  |      | .19  |     |    | T.  | .07 | .50 | .02 |     | .01 | .18 |      | 1.20 |      | 4.22 |       |
| Unity Reservoir | Youghiogheny   | .50          | .48  | .10 | .03 |      | .53 | .10 |     |     |    |     |     |     |     | .32  | T.   | T.   | .35  |     |    | .06 | .20 | .63 | .08 |     | .08 | T.  | .29  | 1.30 |      | 5.05 |       |
| Vandergrift     | Conemaugh      | 1.05         |      |     |     | .28  | .40 |     |     |     |    |     |     |     |     |      | .66  |      | .40  |     |    | .24 |     | .88 |     |     | .11 |     |      |      |      | 3.62 |       |
| Warren          | Allegheny      | .40          | .35  | .10 |     |      | .34 |     |     |     |    |     | .04 |     |     | 1.10 | .22  | .34  | .42  | .08 |    | .20 | .51 | .05 | .05 |     | .10 | .16 | .02  | .25  | .15  | 5.13 |       |
| Waynesburg      | Monongahela    | 1.10         | .26  | T.  |     |      | .68 | .12 |     |     |    |     |     | .50 |     | .30  |      |      | .24  |     |    |     | .08 | .55 | .03 |     |     |     |      | .03  | .98  |      | 5.02  |
| Westford        | Beaver         | .82          | .30  | .10 |     | .44  |     |     |     |     |    |     |     |     |     | .80  | .20  | .40  | .57  | T.  |    | .65 |     | .19 |     |     | .35 |     | .32  |      | T.   | 5.14 |       |
| West Newton     | Youghiogheny   | 1.22         | .10  | .18 |     |      | .66 |     |     |     |    |     |     |     |     | .02  | .03  |      | .19  |     |    |     | .12 | .14 | .41 |     |     | .09 |      | .04  | .95  |      | 4.15  |
| Lake Drainage.  |                |              |      |     |     |      |     |     |     |     |    |     |     |     |     |      |      |      |      |     |    |     |     |     |     |     |     |     |      |      |      |      |       |
| Erie            | Lake Erie      | .85          | .14  | .02 | .04 | .03  | .33 |     |     |     | T. | .03 | .01 | T.  | .03 | T.   | .07  | .06  | 1.12 | .03 |    | .30 | .26 | .20 |     |     | .22 | .08 |      |      |      |      |       |



Daily Temperatures for January, 1932

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |      |      |      |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|------|
| Allentown.....     | Maximum | 40 | 41 | 42 | 40 | 44 | 58 | 48 | 39 | 37 | 40 | 38 | 60 | 67 | 71 | 61 | 42 | 49 | 53 | 40 | 52 | 44 | 58 | 50 | 45 | 39 | 42 | 44 | 49 | 57 | 52 | 36   | 47.7 |      |      |      |
|                    | Minimum | 25 | 33 | 35 | 31 | 33 | 34 | 43 | 33 | 33 | 33 | 29 | 30 | 36 | 43 | 39 | 35 | 36 | 38 | 33 | 32 | 35 | 37 | 39 | 39 | 27 | 28 | 32 | 30 | 36 | 23 | 33.5 |      |      |      |      |
| Altoona.....       | Maximum | 35 | 38 | 36 | 37 | 38 | 50 | 51 | 38 | 43 | 37 | 37 | 54 | 69 | 72 | 66 | 52 | 48 | 50 | 39 | 48 | 45 | 54 | 51 | 57 | 35 | 40 | 41 | 44 | 47 | 49 | 28   | 46.1 |      |      |      |
|                    | Minimum | 28 | 33 | 31 | 33 | 33 | 36 | 34 | 27 | 28 | 23 | 25 | 25 | 47 | 47 | 48 | 34 | 32 | 37 | 27 | 28 | 35 | 40 | 46 | 36 | 27 | 25 | 33 | 28 | 34 | 33 | 15   | 32.5 |      |      |      |
| Bedford.....       | Maximum | 38 | 41 | 38 | 41 | 41 | 54 | 56 | 41 | 39 | 37 | 39 | 56 | 71 | 74 | 68 | 63 | 53 | 55 | 43 | 50 | 57 | 57 | 56 | 59 | 42 | 42 | 42 | 45 | 50 | 49 | 31   | 49.3 |      |      |      |
|                    | Minimum | 30 | 32 | 34 | 35 | 33 | 39 | 39 | 27 | 33 | 28 | 27 | 27 | 49 | 45 | 41 | 35 | 39 | 40 | 30 | 29 | 39 | 45 | 51 | 39 | 30 | 25 | 35 | 30 | 37 | 30 | 18   | 34.5 |      |      |      |
| Bellefonte.....    | Maximum | 37 | 37 | 37 | 39 | 40 | 56 | 50 | 36 | 39 | 36 | 37 | 55 | 69 | 70 | 65 | 40 | 45 | 47 | 39 | 51 | 45 | 54 | 53 | 51 | 35 | 42 | 42 | 41 | 46 | 49 | 23   | 45.5 |      |      |      |
|                    | Minimum | 30 | 32 | 34 | 35 | 38 | 25 | 24 | 29 | 22 | 28 | 29 | 40 | 41 | 39 | 34 | 34 | 31 | 29 | 29 | 36 | 41 | 42 | 32 | 26 | 20 | 35 | 31 | 37 | 23 | 15 | 31.5 |      |      |      |      |
| Brookville.....    | Maximum | 39 | 40 | 37 | 35 | 38 | 41 | 62 | 44 | 44 | 43 | 33 | 39 | 60 | 66 | 67 | 62 | 37 | 53 | 45 | 39 | 50 | 55 | 50 | 53 | 41 | 36 | 41 | 43 | 47 | 59 | 45   | 46.6 |      |      |      |
|                    | Minimum | 31 | 30 | 32 | 32 | 29 | 30 | 40 | 20 | 18 | 20 | 19 | 26 | 23 | 33 | 28 | 33 | 28 | 35 | 28 | 27 | 31 | 34 | 42 | 38 | 29 | 19 | 17 | 33 | 28 | 32 | 18   | 28.7 |      |      |      |
| Butler.....        | Maximum | 45 | 44 | 39 | 39 | 42 | 63 | 60 | 42 | 43 | 42 | 39 | 61 | 67 | 71 | 64 | 61 | 59 | 55 | 43 | 44 | 50 | 49 | 56 | 58 | 40 | 40 | 39 | 45 | 62 | 57 | 28   | 49.7 |      |      |      |
|                    | Minimum | 31 | 33 | 32 | 30 | 30 | 38 | 30 | 19 | 24 | 20 | 22 | 28 | 51 | 31 | 45 | 34 | 37 | 36 | 28 | 32 | 37 | 43 | 43 | 54 | 42 | 43 | 43 | 43 | 45 | 45 | 35   | 48.9 |      |      |      |
| Carlisle.....      | Maximum | 40 | 44 | 44 | 41 | 41 | 51 | 55 | 45 | 38 | 38 | 38 | 50 | 74 | 72 | 72 | 65 | 47 | 47 | 45 | 51 | 51 | 58 | 58 | 54 | 42 | 42 | 38 | 22 | 39 | 30 | 38   | 22   | 34.8 |      |      |
|                    | Minimum | 38 | 35 | 39 | 33 | 36 | 39 | 40 | 30 | 32 | 29 | 23 | 30 | 45 | 35 | 48 | 35 | 38 | 32 | 28 | 35 | 40 | 45 | 42 | 38 | 22 | 39 | 30 | 58 | 58 | 34 | 49.8 |      |      |      |      |
| Catawissa.....     | Maximum | 42 | 44 | 42 | 42 | 41 | 60 | 61 | 40 | 42 | 40 | 44 | 55 | 74 | 75 | 66 | 63 | 45 | 50 | 42 | 52 | 42 | 51 | 52 | 50 | 40 | 42 | 35 | 30 | 25 | 38 | 29   | 27   | 30   | 20   | 33.6 |
|                    | Minimum | 33 | 33 | 35 | 33 | 35 | 38 | 32 | 28 | 30 | 28 | 29 | 35 | 53 | 39 | 42 | 33 | 35 | 36 | 33 | 34 | 32 | 40 | 42 | 35 | 30 | 25 | 38 | 29 | 27 | 30 | 20   | 33.6 |      |      |      |
| Chambersburg.....  | Maximum | 38 | 44 | 42 | 41 | 42 | 53 | 55 | 39 | 42 | 39 | 44 | 54 | 77 | 76 | 65 | 61 | 50 | 54 | 46 | 57 | 52 | 63 | 58 | 55 | 49 | 45 | 45 | 51 | 47 | 54 | 33   | 21   | 34.6 |      |      |
|                    | Minimum | 30 | 36 | 38 | 37 | 37 | 39 | 38 | 32 | 33 | 30 | 24 | 28 | 50 | 40 | 43 | 33 | 37 | 41 | 30 | 31 | 40 | 41 | 44 | 38 | 30 | 27 | 30 | 31 | 33 | 32 | 21   | 34.6 |      |      |      |
| Chambersville..... | Maximum | 41 | 39 | 37 | 38 | 42 | 63 | 61 | 40 | 42 | 42 | 40 | 59 | 67 | 69 | 64 | 49 | 61 | 61 | 39 | 45 | 48 | 51 | 56 | 55 | 38 | 45 | 47 | 47 | 62 | 59 | 29   | 49.5 |      |      |      |
|                    | Minimum | 30 | 33 | 31 | 32 | 30 | 37 | 31 | 22 | 27 | 19 | 23 | 33 | 53 | 36 | 46 | 33 | 36 | 30 | 27 | 30 | 35 | 42 | 44 | 33 | 27 | 24 | 33 | 26 | 37 | 26 | 14   | 31.6 |      |      |      |
| Claysville.....    | Maximum | 47 | 43 | 39 | 37 | 44 | 68 | 62 | 41 | 43 | 43 | 40 | 61 | 67 | 73 | 66 | 51 | 63 | 59 | 40 | 48 | 56 | 56 | 58 | 55 | 43 | 45 | 48 | 52 | 64 | 60 | 31   | 51.7 |      |      |      |
|                    | Minimum | 47 | 43 | 39 | 37 | 44 | 68 | 62 | 41 | 43 | 43 | 40 | 61 | 67 | 73 | 66 | 51 | 63 | 59 | 40 | 48 | 56 | 56 | 58 | 55 | 43 | 45 | 48 | 52 | 64 | 60 | 31   | 51.7 |      |      |      |
| Clearfield.....    | Maximum | 42 | 35 | 41 | 40 | 45 | 52 | 50 | 38 | 48 | 42 | 47 | 58 | 68 | 72 | 64 | 50 | 40 | 48 | 50 | 52 | 50 | 53 | 53 | 52 | 36 | 38 | 41 | 56 | 54 | 52 | 29   | 48.4 |      |      |      |
|                    | Minimum | 28 | 28 | 30 | 28 | 31 | 29 | 23 | 31 | 28 | 19 | 26 | 28 | 41 | 31 | 36 | 31 | 32 | 30 | 28 | 26 | 36 | 34 | 42 | 32 | 30 | 18 | 12 | 30 | 18 | 12 | 30   | 15   | 29.0 |      |      |
| Coatesville.....   | Maximum | 42 | 48 | 43 | 40 | 40 | 57 | 57 | 40 | 37 | 39 | 40 | 54 | 68 | 73 | 70 | 61 | 48 | 54 | 41 | 52 | 49 | 58 | 53 | 56 | 41 | 45 | 46 | 48 | 49 | 58 | 33   | 45.1 |      |      |      |
|                    | Minimum | 31 | 38 | 37 | 32 | 40 | 41 | 39 | 57 | 50 | 39 | 44 | 37 | 38 | 58 | 61 | 67 | 61 | 36 | 53 | 33 | 38 | 44 | 45 | 47 | 53 | 41 | 39 | 38 | 38 | 41 | 54   | 54   | 33   | 45.1 |      |
| Corry.....         | Maximum | 42 | 37 | 40 | 41 | 39 | 57 | 50 | 39 | 44 | 37 | 38 | 58 | 61 | 67 | 61 | 36 | 53 | 33 | 26 | 21 | 31 | 34 | 35 | 33 | 30 | 25 | 23 | 28 | 26 | 35 | 32   | 12   | 29.9 |      |      |
|                    | Minimum | 32 | 30 | 32 | 32 | 31 | 33 | 28 | 22 | 26 | 27 | 24 | 32 | 60 | 39 | 36 | 30 | 33 | 26 | 21 | 31 | 34 | 35 | 33 | 30 | 25 | 23 | 28 | 26 | 35 | 32 | 12   | 29.9 |      |      |      |
| Emporium.....      | Maximum | 39 | 39 | 39 | 39 | 42 | 55 | 53 | 36 | 42 | 35 | 35 | 52 | 65 | 65 | 64 | 41 | 47 | 47 | 37 | 49 | 43 | 53 | 50 | 51 | 36 | 41 | 41 | 44 | 49 | 48 | 26   | 45.3 |      |      |      |
|                    | Minimum | 32 | 33 | 35 | 34 | 35 | 38 | 30 | 20 | 28 | 21 | 30 | 26 | 44 | 31 | 37 | 35 | 35 | 32 | 30 | 34 | 36 | 43 | 42 | 36 | 30 | 21 | 36 | 33 | 33 | 26 | 16   | 32.0 |      |      |      |
| Erie.....          | Maximum | 44 | 40 | 37 | 38 | 45 | 61 | 39 | 45 | 37 | 34 | 38 | 59 | 62 | 65 | 65 | 39 | 57 | 42 | 38 | 43 | 48 | 50 | 41 | 38 | 36 | 44 | 46 | 46 | 59 | 41 | 22   | 45.1 |      |      |      |
|                    | Minimum | 34 | 36 | 35 | 36 | 39 | 32 | 31 | 31 | 29 | 29 | 37 | 55 | 51 | 37 | 34 | 37 | 28 | 31 | 37 | 38 | 40 | 37 | 28 | 28 | 30 | 34 | 31 | 38 | 33 | 22 | 14   | 34.0 |      |      |      |
| Franklin.....      | Maximum | 44 | 39 | 37 | 39 | 50 | 61 | 44 | 43 | 44 | 32 | 22 | 26 | 27 | 29 | 34 | 33 | 32 | 32 | 27 | 35 | 36 | 40 | 33 | 27 | 20 | 23 | 26 | 26 | 30 | 14 | 29.0 |      |      |      |      |
|                    | Minimum | 29 | 32 | 32 | 32 | 33 | 33 | 30 | 20 | 22 | 33 | 36 | 39 | 68 | 70 | 64 | 57 | 41 | 45 | 36 | 48 | 37 | 50 | 48 | 48 | 31 | 40 | 38 | 43 | 41 | 51 | 28   | 42.6 |      |      |      |
| Freeland.....      | Maximum | 32 | 33 | 33 | 31 | 33 | 50 | 53 | 33 | 32 | 33 | 36 | 39 | 68 | 70 | 64 | 57 | 41 | 45 | 36 | 48 | 37 | 50 | 48 | 48 | 31 | 40 | 38 | 43 | 41 | 51 | 28   | 42.6 |      |      |      |
|                    | Minimum | 23 | 31 | 28 | 28 | 32 | 32 | 32 | 29 | 29 | 29 | 23 | 21 | 26 | 38 | 49 | 52 | 28 | 33 | 22 | 27 | 30 | 35 | 35 | 31 | 23 | 23 | 31 | 26 | 28 | 14 | 29.2 |      |      |      |      |
| Genesee.....       | Maximum | 36 | 56 | 45 | 37 | 38 | 50 | 51 | 35 | 37 | 33 | 32 | 50 | 64 | 65 | 61 | 42 | 43 | 45 | 40 | 43 | 40 | 47 | 48 | 49 | 37 | 40 | 37 | 39 | 43 | 45 | 29   | 43.8 |      |      |      |
|                    | Minimum | 30 | 32 | 30 | 30 | 29 | 35 | 30 | 28 | 23 | 18 | 21 | 30 | 46 | 30 | 38 | 30 | 30 | 29 | 28 | 30 | 39 | 37 | 30 | 26 | 19 | 31 | 27 | 30 | 30 | 22 | 13   | 29.1 |      |      |      |
| Gettysburg.....    | Maximum | 39 | 43 | 44 | 41 | 41 | 51 | 51 | 45 | 38 | 39 | 37 | 44 | 72 | 74 | 67 | 66 | 47 | 54 | 46 | 53 | 47 | 61 | 59 | 57 | 43 | 42 | 42 | 41 | 48 | 48 | 36   | 49.0 |      |      |      |
|                    | Minimum | 31 | 37 | 39 | 35 | 36 | 39 | 42 | 32 | 34 | 31 | 26 | 32 | 64 | 41 | 51 | 35 | 39 | 43 | 32 | 29 | 40 | 41 | 47 | 43 | 30 | 27 | 38 | 32 | 35 | 36 | 22   | 36.1 |      |      |      |
| Greensburg.....    | Maximum | 46 | 40 | 46 | 38 | 43 | 69 | 61 | 44 | 42 | 38 | 43 | 60 | 68 | 70 | 65 | 47 | 63 | 56 | 40 | 46 | 53 | 53 | 58 | 55 | 38 | 45 | 48 | 46 | 63 | 58 | 27   | 50.6 |      |      |      |
|                    | Minimum | 33 | 35 | 33 | 33 | 30 | 41 | 34 | 27 | 29 | 23 | 25 | 35 | 55 | 46 | 47 | 35 | 40 | 46 | 38 | 44 | 43 | 44 | 53 | 52 | 34 | 37 | 35 | 45 | 59 | 54 | 25   | 45.2 |      |      |      |
| Grove City.....    | Maximum | 42 | 41 | 38 | 36 | 41 | 57 | 54 | 36 | 40 | 33 | 37 | 55 | 64 | 67 | 61 | 38 | 53 | 44 | 38 | 44 | 43 | 44 | 53 | 52 | 34 | 37 | 35 | 45 | 59 | 54 | 25   | 45.2 |      |      |      |
|                    | Minimum | 30 | 32 | 34 | 32 | 31 | 37 | 27 | 22 | 22 | 21 | 25 | 31 | 51 | 36 | 35 | 31 | 35 | 27 | 26 | 30 | 35 | 42 | 39 | 32 | 25 | 30 | 32 | 26 | 34 | 23 | 13   | 30.5 |      |      |      |
| Hamburg.....       | Maximum | 41 | 39 | 41 | 39 | 38 | 50 | 57 | 43 | 38 | 49 | 39 | 44 | 67 | 69 | 69 | 64 | 56 | 48 | 45 | 49 | 46 | 58 | 57 | 45 | 38 | 44 | 43 | 47 | 46 | 56 | 41   | 48.6 |      |      |      |
|                    | Minimum | 22 | 35 | 31 | 32 | 33 | 36 | 43 | 30 | 33 | 32 | 30 | 33 | 44 | 38 | 40 | 36 | 35 | 33 | 28 | 32 | 39 | 40 | 32 | 30 | 23 | 32 | 34 | 27 | 41 | 22 | 33.0 |      |      |      |      |
| Harrisburg.....    | Maximum | 40 | 43 | 42 | 42 | 42 | 59 | 59 | 38 | 40 | 40 | 39 | 51 | 72 | 73 | 64 | 46 | 50 | 52 | 42 | 52 | 48 | 58 | 52 | 54 | 41 | 44 | 44 | 47 | 49 | 55 | 30   | 48.6 |      |      |      |
|                    | Minimum | 32 | 36 | 39 | 36 | 36 | 39 | 37 | 34 | 35 | 33 | 30 | 34 | 50 | 45 | 46 | 38 | 40 | 36 | 34 | 38 | 41 | 42 | 43 | 38 | 32 | 29 | 40 | 34 | 36 | 30 | 20   | 36.4 |      |      |      |
| Hawley.....        | Maximum | 32 | 33 | 34 | 33 | 36 | 48 | 56 | 39 | 35 | 37 | 33 | 40 | 68 | 67 | 65 | 62 | 36 | 46 | 40 | 48 | 43 | 48 | 47 | 43 | 37 | 45 | 42 | 41 | 36 | 48 | 35   | 43.6 |      |      |      |
|                    | Minimum | 19 | 31 | 32 | 37 | 15 | 33 | 38 | 22 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII.

FEBRUARY, 1932.

No. 2.

GENERAL SUMMARY.

The abnormally warm weather that marked the preceding two winter months continued throughout February and resulted in a monthly average temperature that has been exceeded only three times since State-wide weather records were inaugurated in 1888. The average daily excess for the combined three months' temperature record is nearly 9°. A long-standing maximum temperature record for the month was broken when a reading of 83° was made at Hyndman during the afternoon of the 11th. The previous record was 81°, established at Confluence in 1900. The temperature showed an excess over normal on all but eight days over most of the State, with minima for most stations occurring mostly on the 1st in the western counties and on the 21st in eastern sections. The highest for the month was registered quite generally on the 11th west of the mountains and on the 26th in the eastern portion of the State. Precipitation averaged but slightly over half the February normal, with the greatest amounts being reported from extreme northeastern counties, in which section heavy local storms early in the month helped to increase the total. The driest section was in the western tier of counties, in which region totals of less than one inch were the rule. Snowfall averaged slightly more than 25% of the normal amount and the snow did not lay long in any section. The snow for the three winter months averaged but 5.3 inches, or slightly more than one-sixth the amount to be expected in a normal winter. At the end of the month winter grains were in mostly excellent condition, despite the lack of consistent snow-cover. In many of the southeastern sections the frost penetration never exceeded one inch all winter, while in the colder sections the frost depth rarely exceeded 8 to 12 inches. Ice harvesting was begun in a few northeastern sections during the last week, with the quality only medium. In many sections where an ice crop is usually available none had been cut up to the end of the month. The month was an ideal one for all outdoor activities and generally free from damaging storms, with the exception of a severe electrical storm, rare for February, in the Scranton area, which resulted in some damage from flooded cellars and mine cave-ins. Flood stages were exceeded at a few stations on the Monongahela River during the first week of the month, but no serious damage was reported.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as deduced from the observations taken at 90 stations, was 35.3°, which is 7.2° in ex-

cess of the February normal. The highest monthly mean was 41.2°, at Uniontown, and the lowest was 26.2°, at Gouldsboro. Extremes of temperature ranged from a maximum of 83° at Hyndman on the 11th to a minimum of -8° at Gouldsboro on the 25th. The greatest daily range of temperature was 48° at Hyndman on the 11th.

PRECIPITATION.

The average precipitation for the State, as deduced from reports taken at 145 well-distributed stations, was 1.64 inches, which is 1.33 inches less than the normal for the month. The greatest monthly amount was 4.24 inches at Hollisterville, while the least amount, 0.62 inch was recorded at Newell. The greatest amount recorded in any 24 consecutive hours was 2.20 inches at Hollisterville on the 10-11th. Snowfall for the month averaged 2.9 inches, which is 8.0 inches less than the normal for February. The greatest monthly snowfall was 21.5 inches at Pleasant Mount, where also occurred the greatest 24-hour fall of 8.8 inches on the 27th.

COMPARATIVE DATA FOR FEBRUARY

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888.....                | 28.4        | 63      | -31    | 2.50          | 4.97     | 0.89  | 7           | 11            | 11     | 9                      |
| 1889.....                | 28.0        | 60      | -27    | 1.96          | 3.87     | 0.97  | 7           | 9             | 12     | 9                      |
| 1890.....                | 37.0        | 79      | 0      | 4.32          | 6.39     | 2.28  | 5           | 8             | 14     | 11                     |
| 1891.....                | 34.8        | 70      | -7     | 4.61          | 8.29     | 2.13  | 6           | 8             | 14     | 12                     |
| 1892.....                | 31.6        | 62      | -13    | 1.75          | 4.48     | 0.43  | 7           | 7             | 15     | 9                      |
| 1893.....                | 27.3        | 60      | -16    | 5.92          | 9.28     | 2.92  | 6           | 8             | 14     | 14                     |
| 1894.....                | 27.6        | 64      | -24    | 3.53          | 5.59     | 1.62  | 8           | 9             | 11     | 11                     |
| 1895.....                | 20.2        | 60      | -26    | 1.22          | 3.47     | 0.17  | 10          | 10            | 8      | 6                      |
| 1896.....                | 29.4        | 65      | -21    | 4.90          | 9.08     | 1.94  | 9           | 7             | 13     | 11                     |
| 1897.....                | 30.6        | 67      | -14    | 3.28          | 6.67     | 1.04  | 7           | 8             | 13     | 9                      |
| 1898.....                | 29.4        | 72      | -16    | 2.23          | 4.05     | 0.96  | 8           | 7             | 12     | 9                      |
| 1899.....                | 22.7        | 67      | -39    | 4.05          | 10.22    | 0.98  | 8           | 7             | 13     | 12                     |
| 1900.....                | 27.1        | 81      | -17    | 4.22          | 7.75     | 1.00  | 8           | 6             | 14     | 11                     |
| 1901.....                | 21.7        | 57      | -22    | 0.96          | 2.75     | 0.27  | 10          | 9             | 9      | 8                      |
| 1902.....                | 23.9        | 64      | -24    | 3.99          | 7.43     | 0.45  | 9           | 7             | 12     | 10                     |
| 1903.....                | 30.5        | 68      | -17    | 4.49          | 6.13     | 1.30  | 10          | 7             | 11     | 10                     |
| 1904.....                | 21.8        | 68      | -27    | 2.41          | 4.80     | 0.92  | 10          | 7             | 12     | 11                     |
| 1905.....                | 20.8        | 59      | -25    | 1.70          | 2.83     | 0.44  | 10          | 8             | 10     | 8                      |
| 1906.....                | 28.0        | 79      | -21    | 1.70          | 3.80     | 0.36  | 12          | 7             | 9      | 7                      |
| 1907.....                | 22.8        | 56      | -20    | 1.91          | 4.37     | 0.66  | 12          | 7             | 9      | 8                      |
| 1908.....                | 24.8        | 64      | -29    | 4.65          | 8.15     | 2.51  | 10          | 7             | 12     | 11                     |
| 1909.....                | 35.8        | 73      | -9     | 4.84          | 9.86     | 2.40  | 6           | 7             | 15     | 14                     |
| 1910.....                | 26.6        | 65      | -22    | 3.59          | 5.39     | 1.41  | 9           | 7             | 12     | 11                     |
| 1911.....                | 31.0        | 66      | -8     | 2.27          | 3.76     | 0.85  | 7           | 6             | 15     | 10                     |
| 1912.....                | 23.7        | 69      | -27    | 2.20          | 4.05     | 0.37  | 11          | 8             | 10     | 8                      |
| 1913.....                | 27.4        | 67      | -9     | 1.84          | 4.61     | 0.88  | 12          | 5             | 11     | 9                      |
| 1914.....                | 21.8        | 65      | -27    | 2.78          | 6.20     | 1.30  | 11          | 6             | 11     | 10                     |
| 1915.....                | 33.3        | 73      | -9     | 3.90          | 6.95     | 1.85  | 9           | 5             | 14     | 9                      |
| 1916.....                | 25.7        | 67      | -22    | 3.08          | 5.86     | 1.30  | 8           | 7             | 14     | 12                     |
| 1917.....                | 25.6        | 68      | -29    | 1.46          | 3.37     | 0.35  | 9           | 9             | 10     | 10                     |
| 1918.....                | 28.2        | 69      | -34    | 2.46          | 4.82     | 0.55  | 10          | 8             | 10     | 9                      |
| 1919.....                | 32.0        | 66      | -7     | 2.23          | 4.27     | 1.03  | 12          | 8             | 10     | 11                     |
| 1920.....                | 25.6        | 62      | -20    | 2.44          | 5.23     | 0.70  | 9           | 8             | 12     | 11                     |
| 1921.....                | 32.8        | 76      | -15    | 2.59          | 4.79     | 1.41  | 8           | 8             | 12     | 10                     |
| 1922.....                | 33.0        | 74      | -19    | 1.99          | 3.61     | 0.67  | 9           | 9             | 10     | 10                     |
| 1923.....                | 24.6        | 58      | -20    | 2.16          | 4.80     | 0.65  | 8           | 8             | 12     | 12                     |
| 1924.....                | 26.9        | 70      | -25    | 2.94          | 5.16     | 1.27  | 11          | 7             | 11     | 10                     |
| 1925.....                | 35.6        | 71      | -11    | 2.16          | 4.61     | 0.55  | 11          | 7             | 10     | 8                      |
| 1926.....                | 28.7        | 65      | -13    | 4.06          | 7.29     | 1.34  | 7           | 6             | 15     | 12                     |
| 1927.....                | 35.0        | 69      | -8     | 3.48          | 5.94     | 1.25  | 7           | 8             | 13     | 13                     |
| 1928.....                | 30.3        | 65      | -11    | 3.42          | 5.39     | 1.62  | 10          | 7             | 12     | 11                     |
| 1929.....                | 28.0        | 69      | -20    | 2.87          | 5.17     | 1.36  | 10          | 8             | 10     | 9                      |
| 1930.....                | 35.1        | 80      | -18    | 2.69          | 4.88     | 0.93  | 9           | 6             | 13     | 11                     |
| 1931.....                | 31.9        | 66      | -16    | 1.98          | 3.61     | 0.87  | 11          | 5             | 12     | 9                      |
| 1932.....                | 35.3        | 83      | -8     | 1.64          | 4.24     | 0.62  | 10          | 8             | 11     | 10                     |
| Normal and Extremes..... | 28.1        | 83      | -39    | 2.97          | 10.22    | 0.17  | 9           | 7             | 12     | 10                     |



## Climatological Data for February, 1932

| Stations                | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|-------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                         |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage.      |                   |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown.....          | Lehigh.....       | 254             | 20                      | 33.6                         | .....                     | 59      | 12   | 14     | 21   | 35                       | 1.57  | -1.55                     | 0.66                 | 1.3                       | 10                           | 12    | 8                            | 9         | nw.        | John A. Frick.              |
| Altoona.....            | Blair.....        | 1,615           | 45                      | 35.5                         | +8.3                      | 72      | 11   | 9      | 24   | 38                       | 1.40  | -0.81                     | 0.38                 | 2.0                       | 7                            | 22    | 4                            | 3         | w.         | F. E. Rooney.               |
| Ardmore.....            | Montgomery.....   | 350             | .....                   | 34.8                         | +1.6                      | 58      | 8†   | 14     | 21   | 29                       | 1.95  | -1.44                     | 0.80                 | 0.8                       | 9                            | 16    | 4                            | 9         | .....      | H. G. Balderston.           |
| Arendtsville.....       | Adams.....        | 700             | 10                      | 36.3                         | .....                     | 71      | 26   | 12     | 19   | 45                       | 1.58  | .....                     | 0.66                 | 0.5                       | 7                            | 17    | 2                            | 10        | n.         | Dr. S. W. Frost.            |
| Bedford.....            | Bedford.....      | 1,060           | .....                   | 38.0                         | .....                     | 76      | 11   | 12     | 24   | 43                       | 1.56  | .....                     | 0.96                 | 0.8                       | 7                            | 11    | 9                            | 9         | nw.        | Charles C. Lee.             |
| Bellefonte.....         | Center.....       | 1,050           | 24                      | 33.1                         | +5.8                      | 64      | 26   | 11     | 23   | 36                       | 1.17  | -1.27                     | 0.42                 | 1.7                       | 10                           | 6     | 5                            | 18        | w.         | U. S. Weather Bureau.       |
| Bethlehem.....          | Northampton.....  | 364             | 47                      | 36.9                         | +5.8                      | 60      | 12   | 15     | 21   | 30                       | 1.77  | -1.60                     | 0.43                 | 2.7                       | 9                            | 14    | 4                            | 11        | nw.        | Lehigh University.          |
| Carlisle.....           | Cumberland.....   | 467             | 66                      | 37.4                         | +7.4                      | 66      | 26   | 13     | 21   | 36                       | 1.56  | -1.51                     | 0.71                 | 1.5                       | 7                            | 16    | 7                            | 6         | nw.        | Prof. C. E. Miller.         |
| Catawissa.....          | Columbia.....     | 520             | 36                      | 35.4                         | +5.8                      | 60      | 12†  | 11     | 21   | 32                       | 1.36  | -1.35                     | 0.35                 | 3.4                       | 8                            | 17    | 4                            | 8         | .....      | W. L. Gearhart.             |
| Center Hall.....        | Center.....       | 1,272           | 36                      | 34.1                         | +6.8                      | 64      | 26   | 10     | 1    | 36                       | 0.95  | -1.51                     | 0.28                 | 2.0                       | 4                            | 15    | 5                            | 9         | .....      | S. W. Smith.                |
| Chambersburg.....       | Franklin.....     | 580             | 33                      | 39.2                         | +7.8                      | 71      | 26   | 15     | 24   | 42                       | 1.40  | -1.50                     | 0.86                 | 0.5                       | 8                            | 7     | 14                           | 8         | ne.        | William B. Spear.           |
| Clearfield.....         | Clearfield.....   | 1,120           | 25                      | 35.8                         | +7.4                      | 75      | 11   | 8      | 16†  | 42                       | 1.31  | -1.42                     | 0.45                 | 3.0                       | 8                            | 9     | 13                           | 7         | w.         | E. W. Hess.                 |
| Coatesville.....        | Chester.....      | 380             | 45                      | 36.6                         | +6.2                      | 66      | 26   | 15     | 21   | 36                       | 1.64  | -2.32                     | 0.70                 | 1.0                       | 9                            | 9     | 9                            | 11        | nw.        | Howard L. Pyle.             |
| Colebrook.....          | Lebanon.....      | 560             | 21                      | 34.6                         | +4.3                      | 65      | 26   | 10     | 21   | 35                       | 1.83  | -1.23                     | 0.76                 | 2.0                       | 10                           | 13    | 6                            | 10        | w.         | Wm. A. Rorer.               |
| Emporium.....           | Cameron.....      | 1,050           | 45                      | 33.0                         | +7.4                      | 70      | 11   | 7      | 16   | 36                       | 2.19  | -0.71                     | 0.38                 | 6.5                       | 10                           | 6     | 11                           | 12        | w.         | T. B. Lloyd.                |
| Ephrata.....            | Lancaster.....    | 380             | 40                      | 37.5                         | +7.3                      | 64      | 26   | 16     | 21   | 30                       | 1.56  | -1.53                     | 0.62                 | 2.1                       | 8                            | 10    | 5                            | 14        | s.         | Ira J. Keath.               |
| Freeland.....           | Luzerne.....      | 1,970           | 39                      | 30.6                         | +5.9                      | 57      | 27   | 8      | 24   | 28                       | 2.25  | -0.95                     | 0.80                 | 11.1                      | 13                           | 8     | 4                            | 17        | nw.        | Theo. Reichmann.            |
| George School.....      | Bucks.....        | 190             | 26                      | 36.0                         | +4.8                      | 64      | 26   | 15     | 21   | 34                       | 1.28  | -1.81                     | 0.61                 | 0.2                       | 7                            | 7     | 10                           | 12        | nw.        | Prof. N. W. Swayne          |
| Gettysburg.....         | Adams.....        | 553             | 59                      | 39.4                         | +8.3                      | 71      | 26   | 15     | 1    | 42                       | 1.61  | -1.20                     | 0.92                 | 0.5                       | 8                            | 10    | 9                            | 10        | s.         | Dr. Henry Stewart           |
| Gordon.....             | Schuylkill.....   | 840             | 28                      | 34.4                         | +7.4                      | 62      | 8†   | 7      | 21   | 36                       | 1.82  | -1.55                     | 0.52                 | 6.0                       | 11                           | 10    | 10                           | 9         | w.         | Sallie M. Johnson.          |
| Gouldsboro.....         | Wayne.....        | 1,875           | 17                      | 26.2                         | .....                     | 56      | 9    | 8      | 25   | 46                       | 3.17  | +0.07                     | 1.95                 | 11.5                      | 8                            | 15    | 8                            | 6         | w.         | Gustav Holtz.               |
| Hamburg.....            | Berks.....        | 535             | 39                      | 34.0                         | +4.8                      | 59      | 27   | 12     | 21   | 30                       | 1.74  | -1.69                     | 0.46                 | 2.0                       | 6                            | 14    | 10                           | 5         | w.         | State Sanatorium.           |
| Hanover.....            | York.....         | 600             | 28                      | 40.6                         | +7.7                      | 72      | 26   | 15     | 1    | 37                       | 1.60  | -1.10                     | 0.73                 | 0.5                       | 10                           | 8     | 9                            | 12        | s.         | Thomas Y. Cooper.           |
| Harrisburg.....         | Dauphin.....      | 361             | 63                      | 38.0                         | +7.8                      | 64      | 26   | 20     | 1    | 31                       | 1.35  | -1.71                     | 0.71                 | 1.6                       | 9                            | 7     | 13                           | 9         | nw.        | U. S. Weather Bureau.       |
| Hawley.....             | Wayne.....        | 900             | 14                      | 30.6                         | +4.2                      | 57      | 12   | 2      | 25   | 39                       | 3.06  | +0.52                     | 1.54                 | 12.9                      | 14                           | 13    | 8                            | 8         | w.         | Mrs. Della M. Pennell.      |
| Holtwood.....           | Lancaster.....    | 200             | 17                      | 39.0                         | +5.9                      | 73      | 27   | 21     | 24   | 37                       | 1.46  | -1.22                     | 0.47                 | T                         | 12                           | 9     | 11                           | 9         | .....      | H. W. Lowy, C. E.           |
| Huntingdon.....         | Huntingdon.....   | 650             | 45                      | 36.4                         | +7.2                      | 68      | 26   | 11     | 19   | 40                       | 1.53  | -1.32                     | 0.48                 | 2.0                       | 6                            | 17    | 6                            | 6         | nw.        | Prof. Paul E. Yoder.        |
| Hyndman.....            | Bedford.....      | 977             | 20                      | 40.4                         | +8.9                      | 83      | 11   | 11     | 24   | 48                       | 1.97  | -0.71                     | 1.20                 | 1.3                       | 6                            | 4     | 10                           | 15        | .....      | Horace A. Sheavly.          |
| Lancaster.....          | Lancaster.....    | 255             | 45                      | 35.4                         | +4.4                      | 65      | 26   | 12     | 24   | 40                       | 1.89  | -0.82                     | 0.86                 | 1.0                       | 7                            | 17    | 6                            | 6         | w.         | Supt. of Water Works.       |
| Lawrenceville.....      | Tioga.....        | 1,000           | 35                      | 31.8                         | +7.3                      | 62      | 26   | 5      | 21   | 34                       | 1.83  | +0.02                     | 1.28                 | 4.0                       | 9                            | 7     | 9                            | 13        | .....      | C. P. Darling.              |
| Lebanon.....            | Lebanon.....      | 469             | 48                      | 35.7                         | +6.1                      | 62      | 12†  | 17     | 21   | 35                       | 1.34  | -2.00                     | 0.59                 | T                         | 10                           | 9     | 12                           | 8         | nw.        | S. B. Benzing.              |
| Lewisburg.....          | Union.....        | 450             | 56                      | 35.8                         | +8.5                      | 60      | 12   | 9      | 21   | 30                       | 1.67  | -1.16                     | 0.58                 | 1.0                       | 11                           | 9     | 9                            | 11        | w.         | Prof. W. G. Owens.          |
| Lock Haven.....         | Clinton.....      | 560             | 42                      | 37.2                         | +9.2                      | 66      | 27   | 13     | 16   | 35                       | 1.23  | -1.55                     | 0.21                 | 4.3                       | 12                           | 7     | 15                           | 7         | sw.        | Joseph Beaver.              |
| Lykens.....             | Dauphin.....      | 680             | 17                      | 36.2                         | +5.5                      | 68      | 26   | 6      | 21   | 39                       | 1.26  | -1.50                     | 0.46                 | 0.5                       | 8                            | 18    | 4                            | 7         | nw.        | Susquehanna Collieries Co   |
| Marcus Hook.....        | Delaware.....     | 50              | 5                       | 39.6                         | .....                     | 64      | 27   | 21†    | 16   | 27                       | 2.53  | .....                     | 0.95                 | T                         | 8                            | 8     | 11                           | 10        | sw.        | Sun Oil Co.                 |
| Mauch Chunk.....        | Carbon.....       | 600             | 43                      | 33.6                         | +5.8                      | 61      | 12   | 10     | 21   | 30                       | 2.31  | -1.43                     | 0.60                 | 3.2                       | 9                            | 13    | 2                            | 14        | s.         | R. K. Wintermute.           |
| Millintown.....         | Juniata.....      | 445             | 28                      | 36.4                         | +7.6                      | 67      | 26   | 14     | 16†  | 39                       | 1.23  | -1.20                     | 0.46                 | T                         | 6                            | 10    | 4                            | 15        | w.         | Wellington Smith.           |
| Montrose.....           | Susquehanna.....  | 1,720           | 23                      | 28.4                         | +6.2                      | 55      | 19   | 0      | 24   | 31                       | 2.92  | +0.86                     | 1.90                 | 9.0                       | 7                            | 8     | 10                           | 11        | s.         | Silas Jagger.               |
| Mt. Pocono.....         | Monroe.....       | 1,658           | 26                      | 27.2                         | +5.9                      | 50      | 12   | 5      | 16†  | 31                       | 2.06  | -0.96                     | 0.70                 | 15.0                      | 7                            | 11    | 3                            | 15        | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley.....       | Sullivan.....     | 1,045           | 20                      | 30.6                         | +4.2                      | 56      | 12†  | 7      | 24   | 32                       | 1.89  | -0.58                     | 0.51                 | 4.5                       | 9                            | 13    | 8                            | 8         | nw.        | H. A. Hacker.               |
| Neshaminy Falls II..... | Bucks.....        | 60              | 43                      | 33.6                         | +3.8                      | 64      | 26   | 12     | 20   | 41                       | 1.85  | -1.01                     | 0.60                 | 2.5                       | 13                           | 17    | 0                            | 12        | w.         | North Springfield Water Co. |
| Falmerton.....          | Carbon.....       | 398             | 14                      | 34.0                         | .....                     | 60      | 12   | 11     | 21   | 29                       | 1.61  | -0.62                     | 0.55                 | 4.2                       | 8                            | 12    | 10                           | 7         | sw.        | New Jersey Zinc Co.         |
| Philadelphia.....       | Philadelphia..... | 114             | 61                      | 39.6                         | +5.7                      | 64      | 26   | 23     | 1    | 27                       | 1.58  | -1.85                     | 0.69                 | T                         | 9                            | 8     | 8                            | 13        | nw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.....   | Philadelphia..... | 113             | 8                       | 38.8                         | .....                     | 64      | 26   | 21     | 16†  | 27                       | 1.42  | .....                     | 0.66                 | 0.8                       | 8                            | 8     | 8                            | 13        | .....      | Julius Bernstein.           |
| Phila. Navy Yard.....   | Philadelphia..... | 12              | 16                      | 37.6                         | +3.9                      | 60      | 26   | 21     | 16   | 28                       | 1.50  | -1.86                     | 0.68                 | T                         | 10                           | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |
| Phoenixville.....       | Chester.....      | 100             | 22                      | 38.6                         | +6.3                      | 65      | 26   | 14     | 21   | 30                       | 1.03  | -2.23                     | 0.37                 | 2.0                       | 8                            | 14    | 8                            | 7         | w.         | North Springfield Water Co  |
| Quakertown.....         | Bucks.....        | 496             | 47                      | 35.2                         | +6.4                      | 62      | 26   | 12     | 21   | 37                       | 1.58  | -2.06                     | 0.45                 | 1.8                       | 9                            | 10    | 10                           | 9         | w.         | John E. Benner.             |
| Reading.....            | Berks.....        | 325             | 60                      | 36.9                         | +8.0                      | 62      | 26   | 18     | 1    | 28                       | 1.60  | -1.94                     | 0.65                 | 0.8                       | 9                            | 8     | 8                            | 13        | nw.        | U. S. Weather Bureau.       |
| Scranton.....           | Lackawanna.....   | 805             | 38                      | 32.4                         | +5.1                      | 57      | 27   | 10     | 21   | 28                       | 3.03  | -0.13                     | 2.01                 | 6.1                       | 14                           | 4     | 15                           | 10        | nw.        | U. S. Weather Bureau.       |
| Selinsgrove.....        | Snyder.....       | 455             | 42                      | 36.3                         | +8.2                      | 67      | 26   | 14     | 21†  | 35                       | 1.38  | -1.52                     | 0.71                 | 1.0                       | 8                            | 8     | 15                           | 6         | w.         | Dr. George E. Fisher.       |
| Shawmont II.....        | Philadelphia..... | 51              | 36                      | 37.7                         | +3.9                      | 63      | 26   | 17     | 21   | 29                       | 1.51  | -1.76                     | 0.63                 | 1.5                       | 11                           | 11    | 6                            | 12        | nw.        | W. S. Guiles.               |
| State College.....      | Center.....       | 1,217           | 48                      | 34.2                         | +7.7                      | 63      | 26   | 12     | 24   | 28                       | 1.62  | -1.12                     | 0.44                 | 1.6                       | 9                            | 6     | 13                           | 10        | w.         | C. A. Kern.                 |
| Stroudsburg.....        | Monroe.....       | 500             | 13                      | 31.2                         | +4.0                      | 62      | 12   | 8      | 21   | 43                       | 2.15  | -0.84                     | 0.50                 | 3.9                       | 13                           | 9     | 3                            | 17        | sw.        | State Normal School.        |
| Towanda.....            | Bradford.....     | 754             | 38                      | 31.6                         | +6.8                      | 63      | 26   | 7      | 21   | 31                       | 2.03  | +0.04                     | 1.19                 | 2.1                       | 12                           | 3     | 14                           | 12        | s.         | Hiram E. Bull, C. E.        |
| Wellsboro.....          | Tioga.....        | 1,419           | 62                      | 30.4                         | +5.4                      | 63      | 26   | 1      | 24   | 35                       | 1.73  | -0.55                     | 1.04                 | 4.6                       | 9                            | 10    | 4                            | 15        | w.         | George W. Hill.             |
| West Chester.....       | Chester.....      | 455             | 83                      | 37.4                         | +6.3                      | 63      | 26   | 17     | 21   | 30                       | 1.63  | -2.19                     | 0.77                 | 1.0                       | 7                            | 12    | 10                           | 7         | w.         | Joseph W. Belt.             |
| Williamsport.....       | Lycoming.....     | 521             | 46                      | 34.2                         | +6.5                      | 57      | 12   | 12     | 21   | 25                       | 1.58  | -1.02                     | 0.57                 | 2.9                       | 11                           | 12    | 2                            | 15        | w.         | Miss Veronica E. April.     |
| York.....               | York.....         | 400             | 44                      | 37.5                         | +6.5                      | 69      | 27   | 10     | 24   | 41                       | 1.69  | -1.20                     | 0.81                 | 1.5                       | 9                            | 14    | 11                           | 4         | w.         | York Water Co.              |
| Ohio Drainage.          |                   |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam II.....      | Beaver.....       | 700             | 40                      | 37.5                         | +4.7                      | 73      | 11   | 11     | 1    | 37                       | 0.69  | -1.71                     | 0.27                 | 1.2                       | 10                           | 5     | 9                            | 15        | sw.        | U. S. Engineer.             |
| Bradford.....           | McKean.....       | 1,460           | 13                      | 30.3                         | +3.8                      | 68      | 11   | 0      | 24   | 33                       | 1.90  | -0.73                     | 0.41                 | 9.5                       | 15                           | 7     | 4                            | 18        | sw.        | Supt. Timber Pres. Plant.   |
| Brookville.....         | Jefferson.....    | 1,173           | 42                      | 30.6                         | +5.3                      | 72      | 11   | 7      | 17   | 39†                      | 1.49  | -0.88                     | 0.25                 | 2.5                       | 9                            | 18    | 2                            | 9         | .....      |                             |



## Daily Precipitation for February, 1932

| Stations           | Drainage Basin | Day of month |     |     |      |     |    |     |     |    |     |      |     |    |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |     |     |     | Total |      |
|--------------------|----------------|--------------|-----|-----|------|-----|----|-----|-----|----|-----|------|-----|----|----|----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|
|                    |                | 1            | 2   | 3   | 4    | 5   | 6  | 7   | 8   | 9  | 10  | 11   | 12  | 13 | 14 | 15 | 16  | 17  | 18  | 19  | 20  | 21 | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |
| Atlantic Drainage. |                |              |     |     |      |     |    |     |     |    |     |      |     |    |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |     |     |     |       |      |
| Allentown          | Lehigh         |              |     | .11 | T.   | .66 |    |     | .03 | T. | .01 | .21  | .02 |    |    |    |     | .11 | .02 |     |     |    | T. | T.  | T.  | T.  |     |     | .20 | .20 |     |     | 1.57  |      |
| Altoona            | Juniata        |              | .15 | T.  | .38  | .02 |    |     | .30 |    | .31 | .02  |     |    |    |    |     | .22 |     |     |     |    |    |     |     |     |     |     | .19 |     |     |     | 1.40  |      |
| Ansonia            | W. Br. Susq.   |              | .05 | .03 |      | .27 | T. |     | .17 |    | .02 | .66  | T.  |    |    |    | T.  | .08 | T.  |     | T.  |    |    |     | .05 | .03 | T.  |     |     | .19 |     |     | 1.55  |      |
| Ardmore            | Lower Del.     |              | .28 | .02 | .80  |     |    |     | .17 |    | .12 | .02  | .11 |    |    |    |     | .34 |     |     |     |    |    |     |     |     |     |     | .24 | .02 |     |     | 1.95  |      |
| Arendtsville       | Lower Susq.    |              | .05 | .26 | .66  |     |    |     | .05 |    | .05 | .01  |     |    |    |    |     | .40 |     |     |     |    |    |     |     |     |     |     | .15 |     |     |     | 1.58  |      |
| Baker's Summit     | Juniata        |              | .15 | .01 | .75  |     |    | .01 | .32 |    | .08 |      | .01 |    |    |    |     | .16 |     |     |     |    |    |     |     |     |     |     | .20 | .06 |     |     | 1.74  |      |
| Bedford            | Juniata        |              | .07 |     | .96  |     |    |     | .19 |    | .02 |      |     |    |    |    |     | .20 |     |     | T.  |    |    |     |     |     |     |     | .02 | .10 |     |     | 1.56  |      |
| Bellefonte         | W. Br. Susq.   | T.           | .04 | .01 | .18  | T.  |    |     | .42 |    | .05 | T.   |     |    |    |    | T.  | .06 | .01 | T.  |     |    | T. | T.  | .01 |     |     |     | .38 | .06 | T.  |     | 1.17  |      |
| Bethlehem          | Lehigh         |              | .15 |     | .17  | .43 |    |     | .03 |    | .03 | .27  | .03 |    |    |    |     | .23 | T.  |     |     |    |    | T.  | T.  |     |     |     | .43 | T.  |     |     | 1.77  |      |
| Blosserville       | Lower Susq.    |              | .02 |     | 1.03 |     |    |     | .03 |    | .05 | .06  |     |    |    |    |     | .35 |     |     |     |    |    |     |     |     |     |     | .24 |     |     |     | 1.78  |      |
| Blosserville       | Juniata        |              |     | .08 | .68  | .40 |    |     | .23 |    |     |      |     |    |    |    |     | .30 |     |     |     |    |    |     |     |     |     |     | .13 |     |     |     | 1.82  |      |
| Buffalo Mills      | Juniata        |              |     |     |      |     |    |     |     |    |     |      |     |    |    |    |     | .33 |     |     |     |    |    |     |     |     |     |     |     |     |     |     | 1.66  |      |
| Carlisle           | Lower Susq.    |              | .10 |     | .64  | .07 |    |     | .08 |    | .12 |      |     |    |    |    |     |     |     |     |     |    |    |     |     |     |     |     | T.  | .22 |     |     |       |      |
| Catawissa          | N. Br. Susq.   |              | .13 | T.  | .31  |     |    |     | .09 |    | .09 | .20  |     |    |    |    |     | .12 |     |     |     |    |    | T.  |     | T.  |     |     | .35 | .07 |     |     | 1.36  |      |
| Center Hall        | Susquehanna    |              | .28 |     | .27  |     |    |     | .06 |    | .02 |      | .01 |    |    |    |     | .28 |     | .20 |     |    |    | T.  |     | T.  |     |     | .12 |     |     |     | 0.95  |      |
| Chambersburg       | Potomac        |              | .04 |     | .86  | .01 |    |     | .06 |    | .30 |      |     |    |    |    |     | .30 |     |     | T.  |    |    | .02 |     | .02 |     |     | .05 |     | T.  |     | 1.40  |      |
| Clearfield         | W. Br. Susq.   | T.           | .15 |     | .30  |     |    |     | .03 |    | .06 | .03  | .15 |    |    |    |     | .47 |     |     |     |    |    |     | .01 |     |     |     | .05 |     |     |     | 1.31  |      |
| Coatesville        | Lower Del.     |              | .14 |     | .70  |     |    |     | .03 |    | .06 | .03  | .15 |    |    |    |     | .35 |     |     |     |    |    |     | .02 |     | T.  |     | .04 | .26 | T.  |     | 1.64  |      |
| Colebrook          | Lower Susq.    |              | .16 | T.  | .76  | T.  |    |     | .07 |    | .21 | .03  |     |    |    |    |     | .31 |     |     |     |    |    | .01 |     | T.  |     |     | .18 | .02 |     |     | 1.83  |      |
| Conshohocken       | Schuylkill     |              | .14 |     | .62  |     |    |     | .30 |    | .04 |      | .23 |    |    |    |     | .30 |     |     |     |    |    |     |     |     |     |     |     |     |     |     | 1.62  |      |
| Cresskill          | Juniata        |              | .19 |     | .32  |     |    |     | .30 |    | .05 | T.   | .08 |    |    |    |     | .21 |     |     |     |    |    | .01 |     | T.  |     |     | .04 | T.  |     |     | 1.35  |      |
| Doylstown          | Lower Del.     |              | .13 |     | .30  | .24 |    |     | T.  |    | .32 | .05  |     |    |    |    |     | .38 |     | .10 | T.  |    |    | T.  | T.  | .25 |     |     | .21 | .04 | T.  |     | 1.06  |      |
| Emporium           | W. Br. Susq.   |              | .30 |     | .16  | T.  |    |     | .38 |    | .32 | .05  |     |    |    |    |     | .35 |     |     |     |    |    |     |     | T.  |     |     | .25 |     |     |     | 2.19  |      |
| Ephrata            | Lower Susq.    |              | .15 | T.  | .62  | .06 |    |     | .02 |    | .08 | T.   | .03 |    |    |    |     | .07 | .03 |     |     |    |    | T.  |     | .08 | .03 |     | .74 | .04 |     |     | 1.56  |      |
| Forest City        | N. Br. Susq.   |              | .25 | .26 | .06  | .45 |    |     | .25 |    | T.  | 1.55 | T.  |    |    |    |     | .07 |     |     |     |    |    |     |     |     |     |     |     |     |     |     | 3.81  |      |
| Freeland           | Lehigh         |              | .02 | .27 | .01  | .38 |    |     | .08 |    | .10 | .26  | T.  |    |    |    |     | .09 | .20 |     |     |    |    |     | .02 | T.  |     | .02 | T.  |     | .76 | .04 |       | 2.25 |
| Galeton            | W. Br. Susq.   |              | .13 | .03 | .20  | .06 |    |     | .23 |    | .11 | .44  |     |    |    |    | .16 | .30 |     | .05 | T.  |    |    | T.  | .03 | .03 |     |     | .10 | .03 | T.  |     | 1.60  |      |
| George School      | Lower Del.     |              | .18 | T.  | .24  | .37 |    |     | T.  |    | .03 | T.   | .11 |    |    |    |     | .38 |     |     |     |    |    |     | T.  |     |     |     | .07 | .14 |     |     | 1.28  |      |
| Gettysburg         | Potomac        |              | .05 | .01 | .92  |     |    |     | T.  |    | .03 |      | .01 |    |    |    |     | .26 |     |     |     |    |    |     | T.  |     |     |     | .95 |     | .02 |     | 1.61  |      |
| Girardville        | Lower Susq.    |              | .22 |     | .42  |     |    |     | .11 |    | .09 | .16  | T.  |    |    |    |     | .22 |     |     |     |    |    |     |     | .10 |     |     | .02 | .52 | .02 |     | 2.30  |      |
| Gordon             | Lower Susq.    |              | .22 |     | .34  | .08 |    |     | .09 |    | .09 | .12  |     |    |    |    |     | .05 |     |     |     |    |    |     | .27 |     |     |     | .36 | .18 |     |     | 1.82  |      |
| Gouldsboro         | Lehigh         |              |     | .18 |      | .09 |    |     |     |    | .09 | 1.95 |     |    |    |    |     | .28 |     |     |     |    |    |     |     |     |     |     | .09 |     |     |     | 3.17  |      |
| Graterford         | Schuylkill     |              | .14 |     | .37  | .08 |    |     | .11 |    | .17 | .01  | .14 |    |    |    |     | .35 |     |     |     |    |    |     |     |     |     |     | .46 |     |     |     | 1.89  |      |
| Hamburg            | Schuylkill     |              | .16 |     | .42  |     |    |     | .21 |    | .14 |      |     |    |    |    |     | .30 |     |     |     |    |    | .02 | T.  | T.  |     |     | .05 | .17 |     |     | 1.74  |      |
| Hanover            | Lower Susq.    |              | .05 | T.  | .73  | .10 |    |     | .01 |    | .05 |      | .12 |    |    |    |     | .30 |     |     |     |    |    | T.  | T.  | T.  |     |     | .01 | .06 | T.  |     | 1.60  |      |
| Harrisburg         | Lower Susq.    |              | .12 | T.  | .71  |     |    |     | .05 |    | .07 | .01  | .01 |    |    |    |     | .31 | T.  |     |     | T. | T. | T.  |     | .05 | .01 | .02 |     | .31 | .02 |     | 1.35  |      |
| Hawley             | Upper Del.     |              | .03 | .20 | .01  | .50 | T. |     | .09 | T. | .06 | 1.54 |     |    |    |    |     | .16 | .06 | T.  | T.  |    |    |     | .05 | .01 | .02 |     |     |     |     |     | 3.06  |      |
| Holisterville      | Upper Del.     |              | .30 | .13 | T.   | .52 | T. |     | .12 |    | .05 | 2.20 |     |    |    |    |     | .13 | .09 |     | .02 |    |    | .04 | T.  | .03 |     |     | .58 | .03 |     |     | 4.24  |      |
| Holtwood           | Lower Susq.    |              |     | .05 | .21  | .47 |    |     | .02 |    | .07 | .05  | .09 |    |    |    |     | .27 | .04 |     |     |    |    | .04 |     |     |     |     | .26 | .06 |     |     | 1.46  |      |
| Huntingdon         | Juniata        |              | .11 |     | .31  |     |    |     | .48 |    | .03 |      |     |    |    |    |     | .31 |     |     |     |    |    |     |     |     |     |     | T.  | .08 |     |     | 1.53  |      |
| Hydman             | Potomac        |              | .11 |     | 1.20 | T.  |    |     | .22 |    | .08 | T.   |     |    |    |    |     | .28 |     |     |     |    |    |     |     |     |     |     | .03 |     |     |     | 1.97  |      |
| Kylestown          | W. Br. Susq.   |              | .25 | .04 | .10  | T.  |    |     | .55 |    | .03 | 1.65 |     |    |    |    |     | .22 | .10 | T.  |     |    |    |     | .04 |     |     |     | .40 | T.  |     |     | 3.38  |      |
| Lakeville          | Upper Del.     |              | .01 | .25 |      | .55 |    |     | .15 |    | .03 | 1.65 |     |    |    |    |     | .22 | .22 |     | .02 |    |    | .02 |     | .06 |     | .02 |     | .37 |     |     | 1.89  |      |
| Lancaster          | Lower Susq.    |              | .10 |     | .86  |     |    |     | .06 |    | .05 |      | .09 |    |    |    |     | .36 |     |     |     |    |    |     |     |     |     |     | T.  | .76 |     |     | 1.99  |      |
| Lansford           | Lehigh         |              |     | .14 | T.   | .36 |    |     | .08 | T. | .07 | .33  |     |    |    |    |     | .17 | .05 | T.  | .05 |    |    | T.  | T.  |     | .03 |     | .05 | .05 | T.  |     | 1.83  |      |
| Lansford           | N. Br. Susq.   | T.           | .10 | T.  | .10  | .10 |    |     | T.  |    | .05 | 1.28 |     |    |    |    |     | .05 |     |     |     |    |    |     | T.  | T.  |     |     | .22 | T.  |     |     | 1.34  |      |
| Lawrenceville      | Lower Susq.    | T.           | .01 | .06 | .59  | T.  |    | .06 | T.  |    | .02 | .06  | T.  |    |    |    |     | .01 |     |     |     |    |    |     |     | .05 |     |     |     |     |     |     | 1.67  |      |
| Lebanon            | W. Br. Susq.   |              | .10 | .03 | .38  | .07 |    |     | .12 |    | .07 | .08  | .02 |    |    |    |     | .17 |     |     |     |    |    |     |     |     |     |     |     |     |     |     |       |      |
| Lewisburg          | do.            |              |     |     |      |     |    |     |     |    |     |      |     |    |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |     |     |     |       |      |
| Lloyd              | do.            |              |     |     |      |     |    |     |     |    |     |      |     |    |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |     |     |     |       |      |
| Lock Haven         | W. Br. Susq.   |              | .18 |     | .16  | .02 |    |     | .21 |    | .08 | .20  | .05 |    |    |    |     | .12 | T.  | T.  |     |    |    |     |     | T.  |     |     | .01 | .13 | .02 |     | 1.23  |      |
| Lykens             | Susquehanna    |              | .04 |     | .33  | .08 |    |     | .05 |    | .07 | .02  | T.  |    |    |    |     | .21 |     |     |     |    |    |     |     | T.  |     |     | .46 |     |     |     | 1.26  |      |
| Marcus Hook        | Lower Del.     |              | .27 |     | .37  |     |    |     | .17 |    | .08 | .15  | .95 |    |    |    |     | .40 |     |     |     |    |    |     |     |     |     |     | .14 |     |     |     | 2.53  |      |
| Mauch Chunk        | Lehigh         |              | .20 |     | .47  |     |    |     | .08 |    | .18 | .18  |     |    |    |    |     | .29 |     |     |     |    |    |     |     |     |     |     | .60 |     |     |     | 2.31  |      |
| Mifflintown        | Juniata        |              | .01 |     | .46  |     |    |     | .16 |    | .11 |      |     |    |    |    |     | .15 |     |     |     |    |    |     |     |     |     |     | .34 |     |     |     | 1.23  |      |



## Daily Precipitation for February, 1932—Continued from page 8

| Stations        | Drainage Basin | Day of month |     |     |     |      |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----------------|----------------|--------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|                 |                | 1            | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |  |  |
| Ohio Drainage.  |                |              |     |     |     |      |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Beaver Dam      | Ohio           |              | .12 | .15 | .01 |      |     |     | .05 |     | .03 |     | .02 |     |    |     |     | .17 | .02 |     |     |     |     | T.  | .05 |     |     |     | T.  | .07 |     |     |  |  |
| Beaver Falls    | Beaver         | T.           | .10 | .11 | T.  | .04  |     | .01 |     | .08 |     | .07 | T.  | .03 |    |     |     | .21 | .04 | T.  | T.  |     |     |     | T.  | T.  |     |     | T.  | .01 | T.  |     |  |  |
| Bradford        | Allegheny      |              | .20 | .04 | .29 | .02  |     |     | .09 |     | .14 | .41 | .09 |     |    |     |     | .26 | .03 | .02 |     |     | .12 |     | .04 |     |     | .07 |     | .01 |     | .08 |  |  |
| Brookville      | do             |              | .10 | .20 | T.  | .25  | .15 |     |     | .25 | T.  |     |     |     |    |     |     | .15 | .25 |     | .03 |     |     |     |     |     |     | .11 |     |     |     |     |  |  |
| Butler          | Ohio           |              | .43 |     |     | .10  |     |     |     |     | .13 | .01 |     |     |    |     |     |     |     |     |     |     | T.  | .01 |     |     |     | .02 |     |     |     |     |  |  |
| Chambersville   | Allegheny      |              | .27 | .04 | .07 | .01  |     |     | .26 |     | .24 |     | .03 |     |    |     |     | .47 |     |     | T.  |     |     |     |     |     |     | .01 | .06 |     |     |     |  |  |
| Clairton        | Monongahela    |              | .36 | .02 | .08 |      | T.  |     | .10 | .01 | T.  | .03 | T.  |     |    |     | .16 | .08 | T.  | T.  |     | T.  | T.  |     |     |     | .06 | T.  | T.  |     |     |     |  |  |
| Claysville      | Ohio           |              | .15 | .02 | .22 |      | T.  | .01 |     |     | .25 | .06 |     |     |    |     |     |     |     |     | T.  |     | T.  |     |     |     |     | .04 | .14 | .09 |     |     |  |  |
| Clymer          | Conemaugh      |              |     |     |     |      |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Confluence      | Youghiogheny   | T.           | .20 | .45 | .82 |      |     |     | .38 |     | .10 | T.  | .06 |     |    |     |     | .50 | T.  |     |     |     |     |     |     |     |     |     | .04 |     |     |     |  |  |
| Corry           | Allegheny      |              | .02 | .03 | .20 | .07  |     |     | .07 |     | .12 | .30 | .17 |     |    |     |     | .24 | .03 | .09 | T.  |     | .03 |     |     |     |     | T.  |     | .02 |     |     |  |  |
| Coudersport     | Allegheny      | .05          | .06 | .01 | .15 |      |     | .30 |     | .06 | .53 | .05 |     |     |    |     |     | .24 |     | .02 |     |     | .07 | .03 | .02 |     |     | .18 |     |     | .02 |     |  |  |
| Derry           | Conemaugh      |              | .28 | .06 | .20 |      | T.  | .04 | .23 |     | .08 |     | .10 |     |    |     |     | .33 |     |     |     |     | T.  | .03 |     |     |     |     | .15 |     |     |     |  |  |
| Donora          | Monongahela    |              | .12 | T.  | .15 | .01  |     |     | .03 | .15 |     | T.  |     | .06 |    |     | .23 |     |     | T.  |     |     | .01 | T.  | T.  |     |     |     | .07 |     |     |     |  |  |
| Ebensburg       | Conemaugh      |              | .18 | .06 | .30 | T.   | T.  |     | .42 |     | .12 | T.  | .04 |     |    | .01 | .22 | T.  |     |     |     | T.  | .02 | T.  |     |     |     | .03 |     |     |     |     |  |  |
| Elk Lick        | Youghiogheny   |              | .10 |     | .06 | 1.05 |     |     |     | .35 | .25 |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Falls Creek     | Allegheny      |              | .29 |     | .19 | .10  |     |     | .22 |     | .21 |     |     |     |    |     |     | .38 | .05 |     |     |     |     |     |     | .05 |     | .04 | .03 |     |     |     |  |  |
| Franklin        | Allegheny      | .04          | .09 | .20 | .07 | .10  |     |     | .06 |     | .14 | .19 | .18 |     |    |     |     | .26 | .07 |     | .04 |     |     |     |     | .04 |     |     | .04 |     |     |     |  |  |
| Freeport        | do             |              | .14 | .15 | .01 | .04  |     | T.  | .15 |     | .09 | .01 | .03 |     |    |     |     | .30 | .03 |     | T.  |     | T.  | T.  |     |     |     |     | .10 |     |     |     |  |  |
| Greensburg      | Monongahela    |              | .04 | .06 | .58 | .02  | T.  | T.  | .20 |     | T.  |     | .06 |     |    |     |     | .21 | .06 |     |     |     | .03 |     |     |     |     | .22 | .06 |     |     |     |  |  |
| Greensburg      | Youghiogheny   |              | .21 | .03 | .14 | T.   | T.  | .25 | .03 | .01 | .03 |     | .10 |     |    |     |     | .01 |     | .01 | T.  | .01 | .01 |     |     |     | .01 | .15 |     |     |     |     |  |  |
| Greenville      | Beaver         |              | .40 | .04 | .11 | .05  |     |     | .04 | .18 | .40 | .05 |     |     |    |     |     | .20 | .10 |     | .19 |     |     | T.  | T.  |     |     |     |     |     |     |     |  |  |
| Grove City      | do             |              | .36 |     | T.  | .25  |     |     | .08 |     | T.  | .37 | .08 |     |    |     |     | .32 | .01 | T.  | .05 |     | T.  | T.  |     |     |     |     | .04 |     |     |     |  |  |
| Herr's Isl. Dam | Ohio           |              | .12 | .14 | .03 | .01  | T.  | .12 |     | .05 |     | .06 |     |     |    |     |     | .23 | T.  | T.  |     |     |     | T.  | T.  |     |     |     | .12 | T.  |     |     |  |  |
| Ingram          | Ohio           |              | .26 | .02 | .07 | T.   | T.  | T.  | .13 |     | .03 | .04 | T.  |     |    |     |     | .23 | T.  |     |     | T.  | T.  | T.  |     |     |     | .10 | .05 |     |     |     |  |  |
| Irwin           | Monongahela    |              | .33 | .05 | .11 |      |     | .03 | .18 |     | .07 | T.  | .04 |     |    |     |     | .27 |     |     |     | T.  |     |     |     |     |     | T.  | .04 |     |     |     |  |  |
| Johnstown       | Conemaugh      | T.           | .34 | .11 | .68 | .01  | .02 | .01 | .40 |     | .25 | .05 | .02 |     |    |     |     | .49 | .02 | T.  | .03 | .01 | .02 | .02 | .03 |     |     | .01 | .05 |     |     |     |  |  |
| Kegonsa         | Youghiogheny   | .05          | .21 | .25 | .16 | T.   | .06 | .38 |     | .05 | T.  | .04 |     |     |    |     | .36 | .02 | T.  | T.  | T.  | T.  | T.  | T.  |     |     | .22 | .02 |     |     |     |     |  |  |
| Lake Lynn       | Monongahela    |              | .03 | .40 | .13 | T.   |     | .13 |     |     | .10 |     | .06 |     |    |     |     | .24 | .02 |     |     | .04 |     |     |     |     |     | .28 | .08 |     |     |     |  |  |
| Linesville      | Beaver         | .02          | .08 | .15 | .07 | .14  |     | .10 |     | .14 | .06 | .10 |     |     |    |     |     | .16 |     |     | .08 |     |     |     |     |     | .02 |     |     |     |     |     |  |  |
| Lock No. 2      | Ohio           | T.           | .10 | .15 | .04 | .02  |     | T.  | .11 |     | .05 | T.  | .08 |     |    |     |     | .19 | T.  | T.  |     |     |     |     |     |     |     | .06 | .08 |     |     |     |  |  |
| Lock No. 4      | Monongahela    |              | .04 | .09 | .20 | .03  |     | .02 | .17 |     | T.  |     | .06 |     |    |     |     | .22 | .02 |     |     |     | .02 |     |     |     |     | .08 |     |     |     |     |  |  |
| Lycippus        | Conemaugh      |              | .25 | .09 | .20 | T.   |     | .07 | .17 |     | T.  |     | T.  |     |    |     |     | .44 |     |     | T.  |     | .02 | T.  |     |     |     | .03 | .20 |     |     |     |  |  |
| McKeesport      | Monongahela    |              |     |     |     |      |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Meadville       | Allegheny      | .03          | .15 | .06 |     | .05  |     |     | .04 |     | .16 | .13 |     |     |    |     |     | .10 | T.  | .05 |     | .02 | T.  | T.  |     | .04 |     |     | T.  |     |     |     |  |  |
| Mount Lebanon   | Ohio           |              | .19 | .04 | .27 | T.   | T.  | .10 |     | .10 | T.  | .03 | T.  |     |    |     |     | .18 | T.  | T.  | T.  | T.  | T.  |     |     |     | T.  | .13 | .07 |     |     |     |  |  |
| Natrona         | Allegheny      |              | .10 | .19 | .02 | .20  |     | T.  | .13 |     | .14 | .01 | .10 |     |    |     |     | .27 | .02 | T.  | .01 |     | T.  | T.  |     | .02 |     | .13 |     |     |     |     |  |  |
| New Castle      | Beaver         | T.           | .22 | .08 | .05 | .09  |     |     | .08 |     | .10 | .02 | .23 |     |    |     |     | .21 | .02 | T.  | .01 |     |     | .01 | .02 |     |     | T.  | .04 | .02 |     |     |  |  |
| Newell          | Monongahela    |              | .11 |     | .08 |      |     |     | .16 |     |     |     |     |     |    |     |     | .23 |     |     |     |     |     |     |     |     |     |     | .04 |     |     |     |  |  |
| Parkers Landing | Allegheny      | T.           | .15 | .25 | .02 | .24  | T.  |     | .16 |     | .12 | .03 | .05 |     |    |     |     | .33 | T.  |     | .10 | T.  |     | T.  | T.  |     |     | T.  |     |     |     |     |  |  |
| Pennline        | Beaver         | .03          | .11 | .10 | .05 | .25  |     |     | .09 |     | .16 | .05 | .25 |     |    |     |     | .20 | .05 |     | .07 |     |     | .02 | T.  | T.  |     | T.  |     |     |     |     |  |  |
| Pittsburgh      | Ohio           |              | .22 | .02 | .05 | T.   | T.  |     | .09 | .02 | .01 | .03 | .02 |     |    |     | .06 | .16 | T.  | T.  |     | T.  | T.  |     |     |     |     | .12 | T.  |     |     |     |  |  |
| Punxsutawney    | Allegheny      |              | .08 | .38 | .03 | .33  | T.  |     |     |     | .04 |     |     |     |    |     |     | .42 | .08 |     | .05 |     |     | T.  | T.  |     |     | .07 |     |     |     |     |  |  |
| Ridgway         | do             | T.           | .10 | .20 | .04 | .13  | T.  |     | .17 | .16 |     | .34 | .02 |     |    |     |     | .14 | .18 |     | .01 |     |     |     | .05 | .01 |     | .08 | T.  |     |     |     |  |  |
| Saltsburg       | Conemaugh      |              | .06 | .22 | T.  | .04  |     | T.  | .18 |     | .10 | .02 | .06 |     |    |     |     | .40 | T.  | T.  |     |     |     |     |     |     |     | .14 |     |     |     |     |  |  |
| Sharon          | Beaver         | T.           | .17 | .09 | .08 | .16  |     |     | .14 | T.  | .06 |     | .06 |     |    |     |     | .23 | .01 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Somersett       | Youghiogheny   |              | .27 |     | .90 | T.   | T.  | T.  | .38 |     | .08 |     | .03 |     |    |     |     | .42 |     |     |     |     | .01 | T.  |     |     |     | .02 | .12 |     |     |     |  |  |
| Springdale      | Allegheny      |              | .09 | .12 | .03 | .18  |     | .01 | .15 |     | .08 | .02 | .04 |     |    |     |     | .28 | .03 | T.  |     |     | T.  |     |     |     |     | .04 |     |     |     |     |  |  |
| Uniontown       | Monongahela    |              | .12 |     | .45 | .02  | .02 |     | .20 |     | .01 | T.  | .07 |     |    |     |     | .27 | T.  |     | T.  | .05 | .02 | T.  |     |     |     | .02 | .26 |     |     |     |  |  |
| Unity Reservoir | Youghiogheny   |              | .26 | .05 | .13 |      | T.  | .08 | .21 |     | .05 | T.  |     |     |    |     |     | .40 | T.  |     |     | T.  |     |     |     |     |     | .03 | .20 |     |     |     |  |  |
| Vandergrift     | Conemaugh      |              | .12 | .20 | .15 |      |     |     | .10 | T.  | .09 | T.  |     |     |    |     | .05 | .20 |     |     |     |     |     |     |     |     |     |     |     |     | .02 |     |  |  |
| Warren          | Allegheny      | .04          | .16 | .18 | .08 | .06  |     |     | .04 |     | .55 | .24 | .10 |     |    |     |     | .10 | .06 | .08 | .06 |     | .02 | .15 | .15 | .03 |     | .08 |     |     | .03 |     |  |  |
| Waynesburg      | Monongahela    |              | .10 |     | .44 |      |     |     | .22 |     |     |     | .10 |     |    |     |     | .16 |     |     |     | .02 | T.  |     |     |     |     | .30 |     |     |     |     |  |  |
| Westford        | Beaver         | .04          | .25 | .05 |     |      |     |     | .32 | .07 |     |     | .10 |     |    |     | .12 |     | .04 | .22 |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| West Newton     | Youghiogheny   |              | T.  | .16 | .15 | .04  |     |     | .15 |     |     |     | .02 |     |    |     |     | .21 |     |     |     |     |     |     |     |     |     |     | .05 |     |     |     |  |  |
| Lake Drainage.  |                |              |     |     |     |      |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Erie            | Lake Erie      | T.           | .06 | .06 | .22 | T.   |     | T.  | .09 | .05 | .21 | .22 | .02 | T.  | T. |     | .04 | .13 | .01 | .01 | T.  |     | T.  | .01 | .03 |     |     | T.  |     |     |     |     |  |  |
| Genesee         | do             |              | .10 | T.  | .12 | .05  |     |     | .30 |     | .32 | .88 |     |     |    |     |     | .09 |     | .05 | .05 |     | T.  |     | .03 |     |     | .15 | T.  | .10 |     |     |  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\* Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

†† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloomsburg: Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah † Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

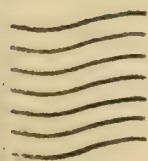
| Stations | Sunshine                |                          |                        | Humidity         |  |  | † Wind                      |  |  |  |
|----------|-------------------------|--------------------------|------------------------|------------------|--|--|-----------------------------|--|--|--|
|          | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |  |  | Velocity, in miles per hour |  |  |  |



## Daily Temperatures for February, 1932

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7     | 8  | 9  | 10 | 11 | 12 | 13 | 14    | 15    | 16    | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24    | 25 | 26 | 27 | 28 | 29 | 30    | 31    | Mean              |                   |
|--------------------|---------|----|----|----|----|----|-------|----|----|----|----|----|----|-------|-------|-------|----|----|----|----|----|----|----|-------|----|----|----|----|----|-------|-------|-------------------|-------------------|
| Allentown.....     | Maximum | 30 | 35 | 44 | 39 | 34 | 42    | 52 | 57 | 34 | 42 | 45 | 59 | 51    | 42    | 37    | 36 | 40 | 36 | 41 | 33 | 39 | 49 | 31    | 33 | 38 | 58 | 57 | 40 | 47    | ..... | 42.1              |                   |
|                    | Minimum | 18 | 20 | 27 | 34 | 27 | 23    | 28 | 32 | 22 | 23 | 34 | 39 | 32    | 29    | 21    | 17 | 19 | 33 | 16 | 20 | 14 | 17 | 28    | 18 | 20 | 23 | 28 | 30 | 32    | ..... | 25.0              |                   |
| Altoona.....       | Maximum | 30 | 33 | 53 | 43 | 35 | 45    | 52 | 50 | 35 | 36 | 72 | 65 | 45    | 39    | 34    | 38 | 59 | 44 | 45 | 39 | 42 | 44 | 34    | 39 | 48 | 65 | 57 | 46 | 47    | ..... | 45.3              |                   |
|                    | Minimum | 11 | 23 | 31 | 32 | 21 | 29    | 30 | 35 | 17 | 30 | 34 | 45 | 30    | 24    | 15    | 11 | 29 | 23 | 19 | 19 | 16 | 34 | 21    | 9  | 18 | 33 | 40 | 34 | 32    | ..... | 25.7              |                   |
| Bedford.....       | Maximum | 35 | 35 | 55 | 48 | 40 | 48    | 54 | 52 | 42 | 43 | 76 | 65 | 49    | 41    | 40    | 40 | 63 | 53 | 46 | 40 | 44 | 37 | 35    | 53 | 67 | 62 | 49 | 51 | ..... | 48.7  |                   |                   |
|                    | Minimum | 14 | 25 | 34 | 36 | 24 | 32    | 27 | 41 | 19 | 32 | 33 | 47 | 27    | 25    | 22    | 16 | 32 | 26 | 17 | 24 | 16 | 36 | 22    | 12 | 27 | 29 | 32 | 33 | 34    | ..... | 27.4              |                   |
| Bellefonte.....    | Maximum | 29 | 32 | 51 | 39 | 35 | 45    | 47 | 50 | 34 | 37 | 63 | 61 | 42    | 40    | 36    | 51 | 36 | 43 | 37 | 41 | 41 | 29 | 33    | 45 | 64 | 56 | 43 | 50 | ..... | 43.0  |                   |                   |
|                    | Minimum | 15 | 26 | 30 | 28 | 22 | 30    | 28 | 25 | 18 | 30 | 33 | 31 | 26    | 20    | 16    | 11 | 29 | 18 | 16 | 18 | 12 | 27 | 11    | 11 | 23 | 28 | 29 | 32 | 31    | ..... | 23.2              |                   |
| Brookville.....    | Maximum | 20 | 28 | 36 | 43 | 44 | 33    | 40 | 46 | 38 | 40 | 72 | 58 | ..... | ..... | ..... | 38 | 33 | 46 | 57 | 31 | 39 | 37 | ..... | 43 | 26 | 32 | 53 | 63 | 51    | 38    | .....             | 41.7 <sup>b</sup> |
|                    | Minimum | 13 | 13 | 25 | 30 | 18 | 22    | 19 | 21 | 14 | 33 | 39 | 22 | ..... | ..... | ..... | 21 | 14 | 12 | 7  | 30 | 13 | 13 | ..... | 10 | 7  | 13 | 15 | 27 | 36    | 28    | .....             | 19.6 <sup>b</sup> |
| Butler.....        | Maximum | 38 | 47 | 45 | 45 | 40 | 36    | 44 | 38 | 37 | 60 | 73 | 72 | 50    | 38    | 35    | 47 | 59 | 58 | 29 | 37 | 45 | 43 | 35    | 35 | 57 | 64 | 61 | 58 | 54    | ..... | 47.6              |                   |
|                    | Minimum | 13 | 25 | 35 | 32 | 21 | 28    | 28 | 26 | 17 | 30 | 38 | 39 | 27    | 27    | 15    | 16 | 33 | 22 | 17 | 20 | 17 | 28 | 18    | 12 | 17 | 42 | 35 | 35 | 32    | ..... | 25.8              |                   |
| Carlisle.....      | Maximum | 33 | 35 | 55 | 55 | 37 | 52    | 52 | 51 | 44 | 40 | 50 | 60 | 58    | 44    | 46    | 35 | 43 | 44 | 50 | 42 | 42 | 52 | 43    | 37 | 47 | 66 | 65 | 55 | 52    | ..... | 47.8              |                   |
|                    | Minimum | 17 | 27 | 32 | 36 | 27 | 20    | 27 | 40 | 19 | 29 | 36 | 44 | 26    | 24    | 21    | 15 | 31 | 31 | 17 | 26 | 13 | 33 | 28    | 14 | 23 | 30 | 30 | 38 | 30    | ..... | 27.0              |                   |
| Catawissa.....     | Maximum | 32 | 35 | 43 | 42 | 41 | 42    | 50 | 53 | 36 | 44 | 58 | 60 | 50    | 44    | 34    | 41 | 40 | 44 | 38 | 42 | 46 | 35 | 35    | 41 | 56 | 60 | 48 | 50 | ..... | 44.1  |                   |                   |
|                    | Minimum | 17 | 26 | 32 | 33 | 28 | 23    | 30 | 35 | 20 | 30 | 37 | 45 | 30    | 27    | 20    | 14 | 32 | 26 | 18 | 24 | 11 | 31 | 26    | 14 | 23 | 29 | 28 | 34 | 31    | ..... | 26.7              |                   |
| Chambersburg.....  | Maximum | 35 | 33 | 60 | 51 | 41 | 53    | 58 | 61 | 40 | 41 | 60 | 65 | 63    | 50    | 44    | 43 | 50 | 51 | 50 | 45 | 43 | 52 | 39    | 34 | 51 | 71 | 66 | 48 | 57    | ..... | 50.2              |                   |
|                    | Minimum | 16 | 26 | 31 | 36 | 27 | 29    | 29 | 39 | 22 | 30 | 35 | 47 | 29    | 27    | 25    | 18 | 31 | 29 | 20 | 25 | 18 | 33 | 28    | 15 | 26 | 29 | 34 | 35 | 32    | ..... | 28.3              |                   |
| Chambersville..... | Maximum | 28 | 39 | 51 | 49 | 35 | 41    | 50 | 48 | 41 | 50 | 76 | 61 | 46    | 38    | 33    | 48 | 59 | 44 | 41 | 37 | 50 | 45 | 33    | 33 | 55 | 63 | 61 | 50 | 50    | ..... | 46.7              |                   |
|                    | Minimum | 11 | 25 | 37 | 31 | 21 | 29    | 28 | 29 | 16 | 34 | 49 | 41 | 29    | 22    | 23    | 16 | 32 | 21 | 16 | 19 | 16 | 28 | 20    | 9  | 19 | 44 | 31 | 33 | 32    | ..... | 26.2              |                   |
| Claysville.....    | Maximum | 31 | 42 | 51 | 54 | 39 | 40    | 50 | 48 | 43 | 66 | 76 | 60 | 47    | 46    | 38    | 49 | 60 | 37 | 46 | 42 | 47 | 47 | 40    | 38 | 61 | 66 | 58 | 51 | 55    | ..... | 49.1              |                   |
|                    | Minimum | 10 | 25 | 40 | 32 | 23 | 29    | 27 | 34 | 19 | 40 | 57 | 39 | 31    | 25    | 20    | 21 | 35 | 23 | 23 | 20 | 22 | 23 | 17    | 19 | 24 | 31 | 25 | 24 | 34    | ..... | 27.3              |                   |
| Clearfield.....    | Maximum | 32 | 35 | 42 | 49 | 46 | 43    | 51 | 48 | 40 | 36 | 75 | 67 | 47    | 48    | 48    | 42 | 59 | 59 | 41 | 42 | 43 | 43 | 35    | 35 | 58 | 66 | 60 | 45 | 53    | ..... | 47.9              |                   |
|                    | Minimum | 12 | 22 | 24 | 30 | 29 | 26    | 27 | 32 | 15 | 29 | 33 | 41 | 31    | 30    | 38    | 8  | 22 | 19 | 10 | 18 | 10 | 32 | 18    | 8  | 18 | 28 | 28 | 30 | 30    | ..... | 23.8              |                   |
| Coatesville.....   | Maximum | 31 | 41 | 44 | 41 | 38 | 46    | 55 | 59 | 44 | 44 | 49 | 58 | 54    | 40    | 38    | 39 | 43 | 43 | 41 | 39 | 41 | 50 | 38    | 34 | 39 | 66 | 62 | 49 | 50    | ..... | 45.4              |                   |
|                    | Minimum | 17 | 22 | 33 | 35 | 27 | 25    | 32 | 39 | 23 | 28 | 39 | 39 | 29    | 30    | 20    | 18 | 27 | 18 | 27 | 15 | 35 | 27 | 17    | 21 | 30 | 39 | 36 | 30 | ..... | 27.8  |                   |                   |
| Corry.....         | Maximum | 27 | 35 | 38 | 38 | 31 | 36    | 43 | 38 | 34 | 50 | 69 | 56 | 38    | 32    | 31    | 47 | 52 | 52 | 30 | 31 | 41 | 41 | 25    | 37 | 45 | 56 | 43 | 40 | 45    | ..... | 48.0              |                   |
|                    | Minimum | 14 | 16 | 28 | 28 | 17 | 26    | 36 | 25 | 14 | 31 | 50 | 34 | 27    | 20    | 10    | 10 | 32 | 18 | 15 | 14 | 11 | 25 | 15    | 7  | 29 | 29 | 27 | 29 | 30    | ..... | 28.0              |                   |
| Emporium.....      | Maximum | 27 | 35 | 46 | 39 | 33 | 42    | 43 | 47 | 35 | 38 | 70 | 62 | 39    | 37    | 33    | 41 | 50 | 37 | 38 | 33 | 44 | 44 | 30    | 32 | 50 | 61 | 45 | 42 | 48    | ..... | 42.1              |                   |
|                    | Minimum | 15 | 25 | 35 | 30 | 22 | 25    | 30 | 28 | 16 | 32 | 38 | 35 | 25    | 22    | 20    | 7  | 32 | 21 | 10 | 20 | 8  | 30 | 15    | 8  | 20 | 32 | 32 | 32 | 32    | ..... | 40.9              |                   |
| Erie.....          | Maximum | 25 | 39 | 41 | 34 | 35 | 38    | 42 | 46 | 41 | 62 | 72 | 52 | 38    | 30    | 26    | 46 | 54 | 31 | 33 | 28 | 44 | 36 | 27    | 31 | 54 | 51 | 48 | 39 | 44    | ..... | 47.2              |                   |
|                    | Minimum | 16 | 25 | 34 | 21 | 21 | 30    | 32 | 25 | 22 | 36 | 58 | 38 | 28    | 20    | 21    | 19 | 30 | 23 | 25 | 21 | 21 | 27 | 19    | 18 | 22 | 43 | 33 | 32 | 34    | ..... | 27.2              |                   |
| Franklin.....      | Maximum | 30 | 39 | 43 | 45 | 36 | 40    | 47 | 44 | 38 | 63 | 72 | 52 | 38    | 33    | 33    | 47 | 57 | 40 | 37 | 40 | 45 | 38 | 36    | 30 | 55 | 62 | 52 | 39 | 48    | ..... | 44.1              |                   |
|                    | Minimum | 14 | 18 | 29 | 32 | 21 | 22    | 28 | 24 | 13 | 23 | 33 | 39 | 32    | 20    | 12    | 9  | 22 | 19 | 12 | 16 | 10 | 29 | 18    | 8  | 16 | 28 | 36 | 28 | 22    | ..... | 22.2              |                   |
| Freeland.....      | Maximum | 28 | 29 | 43 | 38 | 33 | 41    | 45 | 51 | 35 | 37 | 46 | 55 | 45    | 38    | 34    | 36 | 34 | 34 | 37 | 33 | 33 | 43 | 35    | 29 | 34 | 56 | 57 | 43 | 43    | ..... | 39.5              |                   |
|                    | Minimum | 9  | 17 | 29 | 27 | 16 | 22    | 28 | 34 | 13 | 23 | 33 | 39 | 32    | 20    | 12    | 9  | 22 | 19 | 12 | 16 | 10 | 29 | 18    | 8  | 16 | 28 | 36 | 28 | 22    | ..... | 21.6              |                   |
| Genesee.....       | Maximum | 23 | 35 | 40 | 36 | 36 | 39    | 36 | 44 | 33 | 42 | 60 | 61 | 39    | 30    | 25    | 40 | 43 | 35 | 33 | 28 | 40 | 40 | 29    | 30 | 45 | 56 | 50 | 42 | 42    | ..... | 39.0              |                   |
|                    | Minimum | 10 | 12 | 12 | 19 | 18 | 25    | 23 | 26 | 11 | 26 | 38 | 39 | 26    | 20    | 15    | 5  | 29 | 19 | 7  | 13 | 1  | 28 | 13    | 3  | 9  | 33 | 25 | 28 | 28    | ..... | 19.3              |                   |
| Gettysburg.....    | Maximum | 29 | 35 | 57 | 52 | 36 | 43    | 51 | 60 | 43 | 42 | 60 | 66 | 58    | 49    | 47    | 46 | 44 | 51 | 47 | 48 | 46 | 52 | 45    | 35 | 49 | 71 | 68 | 52 | 56    | ..... | 49.6              |                   |
|                    | Minimum | 15 | 26 | 33 | 36 | 26 | 25    | 29 | 40 | 20 | 31 | 36 | 48 | 35    | 28    | 24    | 21 | 31 | 32 | 20 | 27 | 18 | 35 | 27    | 17 | 25 | 29 | 36 | 39 | 37    | ..... | 29.2              |                   |
| Greensburg.....    | Maximum | 30 | 41 | 50 | 56 | 36 | 41    | 51 | 49 | 46 | 63 | 76 | 60 | 45    | 40    | 34    | 50 | 60 | 45 | 42 | 38 | 49 | 42 | 36    | 34 | 60 | 65 | 57 | 49 | 53    | ..... | 48.2              |                   |
|                    | Minimum | 12 | 25 | 41 | 33 | 24 | 30    | 31 | 32 | 20 | 39 | 58 | 43 | 35    | 25    | 19    | 19 | 35 | 24 | 22 | 24 | 21 | 34 | 20    | 15 | 24 | 45 | 38 | 35 | 33    | ..... | 29.5              |                   |
| Grove City.....    | Maximum | 28 | 37 | 37 | 44 | 33 | 38    | 44 | 44 | 38 | 55 | 71 | 59 | 47    | 31    | 31    | 43 | 56 | 46 | 35 | 32 | 43 | 42 | 34    | 31 | 54 | 61 | 56 | 44 | 49    | ..... | 43.6              |                   |
|                    | Minimum | 13 | 21 | 32 | 28 | 19 | 26    | 28 | 26 | 18 | 33 | 53 | 37 | 29    | 16    | 20    | 16 | 32 | 20 | 21 | 18 | 20 | 27 | 18    | 14 | 18 | 41 | 30 | 30 | 30    | ..... | 25.3              |                   |
| Hamburg.....       | Maximum | 29 | 34 | 47 | 45 | 37 | 42    | 58 | 45 | 36 | 46 | 58 | 50 | 40    | 36    | 38    | 42 | 42 | 42 | 41 | 40 | 48 | 41 | 33    | 40 | 50 | 59 | 58 | 44 | ..... | 43.6  |                   |                   |
|                    | Minimum | 18 | 20 | 35 | 35 | 26 | 20    | 33 | 34 | 19 | 25 | 36 | 32 | 30    | 21    | 18    | 14 | 25 | 30 | 14 | 15 | 12 | 22 | 20    | 16 | 23 | 27 | 31 | 28 | 30    | ..... | 24.4              |                   |
| Harrisburg.....    | Maximum | 32 | 35 | 58 | 44 | 36 | 50    | 54 | 58 | 36 | 40 | 52 | 60 | 49    | 44    | 38    | 36 | 47 | 42 | 46 | 40 | 44 | 49 | 35    | 35 | 44 | 64 | 62 | 47 | 53    | ..... | 45.7              |                   |
|                    | Minimum | 20 | 29 | 34 | 34 | 27 | 29    | 37 | 42 | 24 | 36 | 44 | 57 | 52    | 39    | 29    | 38 | 36 | 38 | 38 | 37 | 42 | 47 | 39    | 27 | 34 | 54 | 54 | 47 | 40    | ..... | 40.3              |                   |
| Hawley.....        | Maximum | 26 | 31 | 44 | 39 | 33 | 40    | 40 | 40 | 40 | 36 | 44 | 57 | 52    | 39    | 29    | 38 | 36 | 38 | 38 | 37 | 42 | 47 | 39    | 27 | 34 | 54 | 54 | 47 | 40    | ..... | 40.3              |                   |
|                    | Minimum | 15 | 11 | 30 | 29 | 21 | 12    | 25 | 30 | 15 | 26 | 34 | 35 | 20    | 23    | 20    | 8  | 26 | 24 | 6  | 18 | 3  | 29 | 21    | 5  | 2  | 27 | 32 | 30 | ..... | 20.9  |                   |                   |
| Huntingdon.....    | Maximum | 32 | 33 | 45 | 39 | 42 | ..... | 55 | 53 | 38 | 41 | 67 | 55 | 57    | 44    | 35    | 40 | 54 | 45 | 47 | 40 | 44 | 44 | 36    | 34 | 51 | 68 | 62 | 47 | 54    | ..... | 46.9 <sup>a</sup> |                   |
|                    | Minimum | 17 | 25 | 26 | 29 | 26 | ..... | 26 | 29 | 19 | 32 |    |    |       |       |       |    |    |    |    |    |    |    |       |    |    |    |    |    |       |       |                   |                   |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII.

MARCH, 1932.

No. 3.

## GENERAL SUMMARY.

March was the coldest month of the winter season, being 4.6° colder than December, 7.1° colder than January, and 1.9° colder than February. It was a very blustery and disagreeable month from first to last. At Philadelphia the wind movement for the month exceeded all records with an average hourly velocity of 15.8 miles. Strong winds occurred almost daily, but the excess in movement was increased greatly by two severe coast storms. The first of these storms occurred on the 6th and 7th. Gales of wind caused widespread damage, such as the prostration of telephone, telegraph, and electric lines, and the destruction of forest trees. The accompanying rainfall was heavy in the southeastern counties, where it changed to snow before the storm ended. In the mountain regions the precipitation was largely snow, which drifted badly in the heavy gales, and delayed or stopped traffic for periods ranging from 24 to 48 hours. The papers stated that about three-fourths of the State spent Easter Monday in digging out of a snowfall of six to fifteen inches, which drifted as much as twelve to fifteen feet deep in some places. The other storm, which was only slightly less severe, centered about the 27th, the strongest winds occurring generally on the 26th and the heaviest precipitation on the 28th. The heaviest snowfall for the month, in the southeastern counties, occurred during a comparatively moderate storm on the 21st. These combined storms gave the State an average snowfall of 14.7 inches, or more than twice as much as the March normal. It was 6.5 inches more than had fallen from November 1931 to February 1932, inclusive. Frost penetrated the soil quite deeply in March for the first time during the winter season. It stopped the growth of the winter grains, and killed all grasses that had remained green up to that time. The season's ice harvest was conducted wholly in March, when the Pocono region reported ice eleven inches in thickness. There was no ice worth harvesting in the southeastern portion of the State. At the end of the month it was reported that the winter grains were not greatly damaged by freezing, which had occurred in such a manner that there was little upheaving of the soil. Fruit buds were damaged in some sections, and a few pessimistic reports were received.

## TEMPERATURE.

The mean temperature for the State, as deduced from the observations taken at 90 stations, was 33.4°, which is 4.3° less than the March normal. The highest monthly mean was 39.9°,

at Phoenixville, and the lowest was 24.9°, at Gouldsboro. Extremes of temperature ranged from a maximum of 72° at Hyndman on the 30th to a minimum of -8° at Somerset on the 16th. The greatest daily range of temperature was 49° at Chambersville on the 12th.

## PRECIPITATION.

The average precipitation for the State, as deduced from the reports taken at 149 well-distributed stations, was 4.41 inches, which is 0.97 inch above the normal for the month. The greatest monthly amount was 7.46 inches at West Chester, while the least amount, 1.63 inches was recorded at Ansonia. The greatest amount recorded in any 24 consecutive hours was 3.40 inches at Neshaminy Falls on the 27-28th. Snowfall for the month averaged 14.7 inches, which is 7.8 inches greater than the normal for March. The greatest monthly amount of snow was 41.0 inches at Morris Run. The greatest 24-hour snowfall, 19.0 inches occurred at Lock Haven on the 27-28th.

## COMPARATIVE DATA FOR MARCH

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .91 inch or more prec. |
| 1888.....                | 31.2        | 72      | -6     | 3.55          | 6.39     | 1.70  | .....       | .....         | .....  | 11                     |
| 1889.....                | 39.0        | 76      | 4      | 2.90          | 5.44     | 1.44  | 10          | 8             | 13     | 9                      |
| 1890.....                | 33.2        | 76      | -18    | 5.15          | 8.31     | 2.90  | 6           | 10            | 15     | 16                     |
| 1891.....                | 33.8        | 60      | -14    | 5.10          | 8.39     | 2.44  | 7           | 8             | 16     | 14                     |
| 1892.....                | 31.8        | 66      | -4     | 4.14          | 6.61     | 2.04  | 11          | 7             | 13     | 12                     |
| 1893.....                | 34.8        | 74      | 3      | 2.52          | 5.09     | 0.71  | 9           | 9             | 13     | 11                     |
| 1894.....                | 43.2        | 84      | -2     | 1.63          | 2.90     | 0.24  | 12          | 11            | 8      | 8                      |
| 1895.....                | 33.8        | 70      | -4     | 2.31          | 4.03     | 0.99  | 10          | 10            | 11     | 11                     |
| 1896.....                | 30.6        | 69      | -18    | 4.51          | 7.98     | 1.77  | 11          | 8             | 12     | 11                     |
| 1897.....                | 39.0        | 75      | -5     | 3.22          | 5.86     | 1.01  | 11          | 7             | 13     | 13                     |
| 1898.....                | 44.0        | 83      | 4      | 4.31          | 8.40     | 2.06  | 10          | 8             | 13     | 12                     |
| 1899.....                | 36.3        | 75      | 3      | 4.87          | 10.30    | 1.91  | 5           | 9             | 17     | 14                     |
| 1900.....                | 31.2        | 66      | -23    | 3.61          | 7.31     | 2.25  | 10          | 9             | 12     | 10                     |
| 1901.....                | 37.4        | 80      | -11    | 4.14          | 7.21     | 1.52  | 7           | 10            | 14     | 13                     |
| 1902.....                | 41.3        | 78      | 2      | 3.98          | 7.50     | 0.77  | 10          | 9             | 12     | 11                     |
| 1903.....                | 46.4        | 83      | 14     | 4.52          | 5.81     | 2.82  | 10          | 7             | 14     | 11                     |
| 1904.....                | 36.0        | 80      | -2     | 4.29          | 7.02     | 2.10  | 9           | 8             | 14     | 12                     |
| 1905.....                | 39.0        | 86      | -18    | 3.86          | 6.57     | 1.40  | 12          | 8             | 11     | 11                     |
| 1906.....                | 31.7        | 68      | -13    | 4.46          | 7.37     | 2.76  | 8           | 7             | 16     | 14                     |
| 1907.....                | 41.8        | 92      | -10    | 4.26          | 8.20     | 1.08  | 11          | 8             | 12     | 12                     |
| 1908.....                | 40.7        | 83      | -4     | 4.76          | 10.00    | 1.58  | 11          | 8             | 12     | 12                     |
| 1909.....                | 35.6        | 74      | -5     | 3.07          | 4.90     | 1.33  | 10          | 9             | 12     | 12                     |
| 1910.....                | 44.9        | 88      | 5      | 0.56          | 1.33     | 0.00  | 15          | 10            | 6      | 5                      |
| 1911.....                | 35.0        | 73      | -18    | 2.57          | 4.75     | 1.15  | 11          | 8             | 12     | 13                     |
| 1912.....                | 33.6        | 72      | -8     | 5.05          | 9.71     | 1.80  | 10          | 8             | 13     | 13                     |
| 1913.....                | 42.1        | 81      | -7     | 5.27          | 9.08     | 2.75  | 9           | 8             | 14     | 13                     |
| 1914.....                | 34.2        | 79      | -12    | 2.61          | 5.08     | 0.88  | 10          | 3             | 13     | 10                     |
| 1915.....                | 32.9        | 62      | -4     | 1.28          | 2.80     | 0.57  | 15          | 8             | 8      | 7                      |
| 1916.....                | 30.7        | 84      | -31    | 4.12          | 8.84     | 2.20  | 12          | 8             | 11     | 12                     |
| 1917.....                | 37.3        | 84      | -12    | 3.68          | 6.06     | 1.43  | 11          | 8             | 12     | 14                     |
| 1918.....                | 41.6        | 82      | 0      | 2.34          | 4.98     | 0.87  | 17          | 7             | 7      | 8                      |
| 1919.....                | 41.1        | 79      | 6      | 3.57          | 6.99     | 1.29  | 15          | 7             | 9      | 10                     |
| 1920.....                | 38.7        | 80      | -11    | 2.83          | 9.70     | 1.06  | 16          | 7             | 8      | 9                      |
| 1921.....                | 43.0        | 88      | 7      | 3.33          | 6.15     | 1.05  | 12          | 9             | 10     | 14                     |
| 1922.....                | 40.0        | 81      | -5     | 4.37          | 6.65     | 2.30  | 11          | 6             | 14     | 14                     |
| 1923.....                | 37.0        | 80      | -8     | 2.49          | 5.21     | 0.70  | 13          | 8             | 10     | 11                     |
| 1924.....                | 36.1        | 78      | 8      | 2.83          | 8.97     | 0.59  | 12          | 9             | 10     | 9                      |
| 1925.....                | 40.9        | 79      | -15    | 2.56          | 4.13     | 1.47  | 14          | 6             | 11     | 10                     |
| 1926.....                | 33.1        | 79      | -16    | 1.91          | 3.94     | 0.58  | 14          | 8             | 9      | 10                     |
| 1927.....                | 42.0        | 82      | -6     | 2.61          | 5.43     | 0.69  | 13          | 7             | 11     | 10                     |
| 1928.....                | 37.0        | 82      | -3     | 3.24          | 5.45     | 1.65  | 12          | 9             | 10     | 11                     |
| 1929.....                | 43.7        | 89      | -5     | 2.69          | 4.50     | 1.37  | 12          | 8             | 11     | 12                     |
| 1930.....                | 37.9        | 78      | -9     | 3.03          | 5.05     | 1.04  | 13          | 7             | 11     | 10                     |
| 1931.....                | 36.3        | 69      | 10     | 2.96          | 5.72     | 0.70  | 8           | 7             | 16     | 11                     |
| 1932.....                | 33.4        | 72      | -8     | 4.41          | 7.46     | 1.63  | 10          | 8             | 13     | 11                     |
| Normal and Extremes..... | 37.7        | 92      | -31    | 3.44          | 10.30    | 0.00  | 11          | 8             | 12     | 11                     |



## Climatological Data for March, 1932

| Stations                | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|-------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                         |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage.      |                   |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown.....          | Lehigh.....       | 254             | 20                      | 34.4                         | .....                     | 59      | 26†  | 10     | 9†   | 32                       | 4.53  | +1.31                     | 2.12                 | 2.2                       | 6                            | 18    | 4          | 9                            | nw.       | John A. Frick.              |
| Altoona.....            | Blair.....        | 1,615           | 45                      | 31.8                         | -6.0                      | 63      | 30   | 3      | 9†   | 36                       | 5.66  | +2.94                     | 1.89                 | 29.8                      | 13                           | 23    | 4          | 4                            | w.        | F. E. Rooney.               |
| Ardmore.....            | Montgomery.....   | 350             | .....                   | 33.5                         | -8.8                      | 60      | 30   | 9      | 10   | 33                       | 6.35  | +2.82                     | 2.40                 | 6.6                       | 10                           | 18    | 8          | 5                            | .....     | H. G. Balderston.           |
| Arendtsville.....       | Adams.....        | 700             | 10                      | 33.9                         | .....                     | 71      | 30   | 6      | 9    | 43                       | 5.96  | .....                     | 1.61                 | 9.0                       | 8                            | 18    | 2          | 11                           | n.        | Dr. S. W. Frost.            |
| Bedford.....            | Bedford.....      | 1,060           | .....                   | 34.6                         | .....                     | 69      | 30   | 6      | 9    | 45                       | 4.12  | .....                     | 1.38                 | 17.5                      | 9                            | 12    | 10         | 9                            | nw.       | Charles C. Lee.             |
| Bellefonte.....         | Center.....       | 1,050           | 24                      | 30.7                         | -9.4                      | 58      | 25   | 4      | 9    | 38                       | 3.56  | +0.14                     | 1.24                 | 24.0                      | 13                           | 3     | 9          | 19                           | w.        | U. S. Weather Bureau.       |
| Bethlehem.....          | Northampton.....  | 364             | 47                      | 36.8                         | -3.8                      | 61      | 3    | 10     | 9†   | 30                       | 4.63  | +1.22                     | 1.80                 | 2.2                       | 9                            | 18    | 2          | 11                           | nw.       | Lehigh University.          |
| Carlisle.....           | Cumberland.....   | 467             | 66                      | 36.8                         | -1.6                      | 69      | 30   | 9      | 9    | 43                       | 5.98  | +2.60                     | 2.05                 | 31.0                      | 10                           | 18    | 4          | 9                            | nw.       | Prof. C. E. Miller.         |
| Catawissa.....          | Columbia.....     | 520             | 36                      | 34.6                         | -3.8                      | 65      | 31   | 7      | 9    | 41                       | 5.07  | +2.18                     | 1.10                 | 11.6                      | 9                            | 15    | 1          | 15                           | .....     | W. L. Gearhart.             |
| Center Hall.....        | Center.....       | 1,272           | 36                      | 32.6                         | -4.0                      | 62      | 3    | 0      | 9    | 30                       | 4.66  | +1.61                     | 1.74                 | 22.5                      | 8                            | 17    | 10         | 4                            | .....     | S. W. Smith.                |
| Chambersburg.....       | Franklin.....     | 580             | 33                      | 37.1                         | -2.4                      | 69      | 30   | 11     | 8†   | 40                       | 5.52  | +2.53                     | 1.33                 | 13.5                      | 10                           | 9     | 12         | 10                           | nw.       | William B. Spear.           |
| Clearfield.....         | Clearfield.....   | 1,120           | 25                      | 32.3                         | -4.1                      | 66      | 3    | 3      | 9    | 41                       | 2.94  | -0.44                     | 0.60                 | 19.8                      | 13                           | 11    | 14         | 6                            | w.        | E. W. Hess.                 |
| Coatesville.....        | Chester.....      | 380             | 45                      | 35.9                         | -4.1                      | 61      | 26   | 10     | 9    | 32                       | 6.27  | +2.19                     | 2.26                 | 6.0                       | 11                           | 14    | 4          | 13                           | nw.       | Howard L. Pyle.             |
| Colebrook.....          | Lebanon.....      | 560             | 21                      | 33.5                         | -6.6                      | 63      | 30   | 1      | 9    | 36                       | 5.40  | +1.94                     | 1.86                 | 12.2                      | 12                           | 13    | 4          | 14                           | w.        | Wm. A. Rorer.               |
| Emporium.....           | Cameron.....      | 1,050           | 45                      | 31.4                         | -4.0                      | 68      | 30   | -3     | 9†   | 42                       | 4.34  | +0.72                     | 1.26                 | 15.0                      | 11                           | 4     | 11         | 16                           | w.        | T. B. Lloyd.                |
| Ephrata.....            | Lancaster.....    | 380             | 40                      | 37.0                         | -3.0                      | 64      | 25   | 11     | 9†   | 35                       | 5.15  | +1.76                     | 2.03                 | 7.0                       | 10                           | 11    | 9          | 11                           | s.        | Ira J. Keath.               |
| Freeland.....           | Luzerne.....      | 1,970           | 39                      | 29.1                         | -3.8                      | 55      | 30   | 0      | 9    | 38                       | 4.84  | +1.27                     | 1.98                 | 36.2                      | 11                           | 10    | 7          | 14                           | nw.       | Theo. Reichmann.            |
| George School.....      | Bucks.....        | 190             | 26                      | 37.4                         | -3.3                      | 63      | 26   | 13     | 9†   | 33                       | 5.75  | +2.58                     | 2.73                 | 3.5                       | 13                           | 10    | 10         | 11                           | nw.       | Prof. N. W. Swayne          |
| Gettysburg.....         | Adams.....        | 553             | 59                      | 38.0                         | -2.1                      | 67      | 30   | 11     | 10   | 39                       | 5.94  | +2.80                     | 1.78                 | 10.5                      | 10                           | 16    | 7          | 8                            | w.        | Dr. Henry Stewart           |
| Gordon.....             | Schuylkill.....   | 840             | 28                      | 33.4                         | -3.5                      | 60      | 30   | 1      | 9    | 40                       | 5.54  | +1.72                     | 2.55                 | 22.0                      | 9                            | 17    | 4          | 10                           | w.        | Sallie M. Johnson.          |
| Gouldsboro.....         | Wayne.....        | 1,875           | 17                      | 24.9                         | .....                     | 50      | 31   | -1     | 10   | 37                       | 2.75  | -0.29                     | 1.35                 | 29.3                      | 7                            | 20    | 3          | 8                            | nw.       | Gustav Holtz.               |
| Hamburg.....            | Berks.....        | 535             | 39                      | 34.4                         | -4.0                      | 60      | 3†   | 5      | 10   | 35                       | 4.52  | +0.72                     | 1.90                 | 5.5                       | 9                            | 9     | 14         | 8                            | nw.       | State Sanatorium.           |
| Hanover.....            | York.....         | 600             | 28                      | 38.0                         | -4.5                      | 67      | 30   | 10     | 10   | 36                       | 6.61  | +3.55                     | 2.20                 | 12.0                      | 10                           | 16    | 5          | 10                           | nw.       | Thomas Y. Cooper.           |
| Harrisburg.....         | Dauphin.....      | 361             | 63                      | 36.0                         | -2.9                      | 68      | 30   | 12     | 10   | 34                       | 5.80  | +2.76                     | 2.18                 | 10.7                      | 11                           | 10    | 11         | 10                           | nw.       | U. S. Weather Bureau.       |
| Hawley.....             | Wayne.....        | 900             | 14                      | 30.6                         | -4.9                      | 57      | 30   | 1      | 9    | 40                       | 4.88  | +2.10                     | 1.66                 | 24.5                      | 9                            | 16    | 5          | 10                           | w.        | Mrs. Della M. Pennell.      |
| Holtwood.....           | Lancaster.....    | 200             | 17                      | 38.3                         | -3.7                      | 66      | 31   | 14     | 10   | 30                       | 5.52  | +2.86                     | 2.20                 | 9.0                       | 11                           | 9     | 15         | 7                            | .....     | H. W. Lowy, C. E.           |
| Huntingdon.....         | Huntingdon.....   | 650             | 45                      | 34.4                         | -4.5                      | 69      | 30   | 9      | 16   | 45                       | 5.23  | +1.88                     | 1.85                 | 21.5                      | 10                           | 6     | 11         | 14                           | nw.       | Prof. Paul R. Yoder.        |
| Hyndman.....            | Bedford.....      | 977             | 20                      | 36.1                         | -4.3                      | 72      | 30   | 7      | 9    | 45                       | 4.91  | +1.92                     | 2.08                 | 11.5                      | 10                           | 5     | 8          | 18                           | .....     | Horace A. Sheavly.          |
| Lancaster.....          | Lancaster.....    | 255             | 45                      | 35.4                         | -4.3                      | 60      | 4    | 8      | 9    | 35                       | 6.19  | +2.86                     | 2.71                 | 8.0                       | 10                           | 16    | 8          | 7                            | nw.       | Supt. of Water Works.       |
| Lawrenceville.....      | Tioga.....        | 1,000           | 35                      | 30.6                         | -4.2                      | 60      | 30   | -1     | 9    | 42                       | 2.91  | +0.60                     | 0.95                 | 20.5                      | 8                            | 10    | 7          | 14                           | .....     | C. P. Darling.              |
| Lebanon.....            | Lebanon.....      | 469             | 48                      | 35.0                         | -4.4                      | 63      | 30   | 10     | 9†   | 33                       | 5.25  | +1.69                     | 1.80                 | 7.3                       | 10                           | 12    | 8          | 11                           | nw.       | S. B. Benzing.              |
| Lewisburg.....          | Union.....        | 450             | 56                      | 35.2                         | -1.8                      | 61      | 30   | 7      | 9    | 39                       | 5.41  | +1.91                     | 1.99                 | 13.0                      | 11                           | 6     | 11         | 14                           | w.        | Prof. W. G. Owens.          |
| Lock Haven.....         | Clinton.....      | 560             | 42                      | 36.0                         | -2.6                      | 62      | 30   | 7      | 9    | 35                       | 4.27  | +0.91                     | 1.95                 | 26.0                      | 11                           | 7     | 11         | 13                           | ne.       | Joseph Beaver.              |
| Lykens.....             | Dauphin.....      | 630             | 17                      | 34.7                         | -4.8                      | 65      | 26†  | 2      | 9†   | 44                       | 6.28  | +3.49                     | 2.12                 | 14.5                      | 10                           | 14    | 8          | 9                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook.....        | Delaware.....     | 50              | 5                       | 38.8                         | .....                     | 61      | 3    | 14     | 10   | 25                       | 6.62  | .....                     | 2.16                 | 3.0                       | 8                            | 9     | 12         | 10                           | nw.       | Sun Oil Co.                 |
| Mauch Chunk.....        | Carbon.....       | 600             | 43                      | 33.2                         | -4.2                      | 62      | 3    | 6      | 9    | 37                       | 5.59  | +1.40                     | 1.78                 | 5.5                       | 9                            | 15    | 6          | 10                           | nw.       | R. K. Wintermute.           |
| Millintown.....         | Juniata.....      | 445             | 28                      | 35.2                         | -4.0                      | 68      | 30   | 8      | 9    | 41                       | 4.81  | +1.93                     | 1.49                 | 15.0                      | 11                           | 12    | 5          | 14                           | w.        | Wellington Smith.           |
| Montrose.....           | Susquehanna.....  | 1,720           | 28                      | 27.3                         | -5.0                      | 52      | 31   | -5     | 9    | 35                       | 2.60  | -0.02                     | 1.00                 | 31.0                      | 5                            | 9     | 8          | 14                           | w.        | Silas Jagger.               |
| Mt. Pocono.....         | Monroe.....       | 1,658           | 26                      | 25.9                         | -6.3                      | 50      | 34   | -2     | 9†   | 26                       | 5.08  | +1.55                     | 1.90                 | 25.0                      | 8                            | 9     | 7          | 15                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley.....       | Sullivan.....     | 1,045           | 20                      | 30.3                         | -5.4                      | 58      | 3    | -5     | 9    | 38                       | 5.57  | +3.04                     | 2.08                 | 20.0                      | 8                            | 13    | 7          | 11                           | nw.       | H. O. Hacker.               |
| Neshaminy Falls II..... | Bucks.....        | 60              | 43                      | 35.8                         | -3.6                      | 64      | 26   | 12     | 8†   | 34                       | 7.28  | +4.51                     | 3.40                 | 3.5                       | 11                           | 18    | 3          | 10                           | w.        | North Springfield Water Co. |
| Palmerton.....          | Carbon.....       | 398             | 14                      | 34.2                         | .....                     | 60      | 3    | 9      | 9    | 34                       | 4.56  | +1.97                     | 1.35                 | 6.5                       | 8                            | 19    | 4          | 8                            | nw.       | New Jersey Zinc Co.         |
| Philadelphia.....       | Philadelphia..... | 114             | 61                      | 39.4                         | -1.4                      | 63      | 26   | 17     | 10   | 24                       | 7.43  | +4.04                     | 2.74                 | 5.8                       | 12                           | 7     | 10         | 14                           | nw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn.....   | Philadelphia..... | 113             | 8                       | 38.9                         | .....                     | 83      | 26   | 15     | 10   | 26                       | 7.26  | .....                     | 1.96                 | 6.6                       | 12                           | 10    | 12         | 9                            | .....     | Julius Bernstein.           |
| Phila. Navy Yard.....   | Philadelphia..... | 12              | 16                      | 37.6                         | -4.7                      | 60      | 26   | 16     | 10   | 26                       | 6.41  | +3.29                     | 2.68                 | 5.2                       | 10                           | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.      |
| Phoenixville.....       | Chester.....      | 100             | 22                      | 39.9                         | -1.0                      | 63      | 3†   | 13     | 9    | 33                       | 6.37  | +3.06                     | 2.37                 | 3.5                       | 8                            | 17    | 9          | 5                            | w.        | North Springfield Water Co. |
| Quakertown.....         | Bucks.....        | 496             | 47                      | 35.6                         | -1.7                      | 58      | 26†  | 10     | 10   | 34                       | 4.72  | +1.19                     | 1.78                 | 1.6                       | 9                            | 13    | 8          | 10                           | nw.       | John E. Benner.             |
| Reading.....            | Berks.....        | 325             | 60                      | 36.3                         | -3.7                      | 62      | 30   | 11     | 10   | 30                       | 5.97  | +2.45                     | 2.51                 | 9.8                       | 10                           | 7     | 13         | 11                           | nw.       | U. S. Weather Bureau.       |
| Scranton.....           | Lackawanna.....   | 805             | 38                      | 32.1                         | -3.6                      | 59      | 30   | 8      | 9    | 34                       | 4.34  | +1.14                     | 1.82                 | 15.7                      | 12                           | 5     | 11         | 15                           | nw.       | U. S. Weather Bureau.       |
| Selinsgrove.....        | Snyder.....       | 455             | 42                      | 34.4                         | -4.1                      | 61      | 30   | 5      | 9    | 40                       | 4.83  | +1.27                     | 1.45                 | 14.1                      | 10                           | 12    | 9          | 10                           | w.        | Dr. George E. Fisher.       |
| Shawmont II.....        | Philadelphia..... | 51              | 36                      | 37.7                         | -2.6                      | 63      | 26   | 14     | 10   | 33                       | 5.65  | +2.24                     | 2.40                 | 6.2                       | 10                           | 10    | 11         | 10                           | nw.       | W. S. Guiles.               |
| State College.....      | Center.....       | 1,217           | 48                      | 32.1                         | -4.0                      | 61      | 30   | 2      | 9    | 35                       | 4.51  | +1.33                     | 1.38                 | 19.1                      | 10                           | 10    | 10         | 11                           | w.        | C. A. Kern.                 |
| Stroudsburg.....        | Monroe.....       | 500             | 13                      | 33.6                         | -3.2                      | 60      | 30   | 8      | 9    | 37                       | 4.15  | +0.50                     | 0.85                 | 5.5                       | 11                           | 14    | 4          | 13                           | nw.       | State Normal School.        |
| Towanda.....            | Bradford.....     | 754             | 38                      | 31.2                         | -3.9                      | 55      | 30   | 3      | 9    | 39                       | 4.21  | +1.65                     | 1.60                 | 31.5                      | 8                            | 4     | 13         | 14                           | w.        | Hiram E. Bull, C. E.        |
| Wellsboro.....          | Tioga.....        | 1,419           | 62                      | 29.8                         | -3.2                      | 60      | 30   | 0      | 9    | 43                       | 3.29  | +0.22                     | 1.20                 | 40.0                      | 9                            | 15    | 6          | 10                           | w.        | George W. Hill.             |
| West Chester.....       | Chester.....      | 455             | 83                      | 36.9                         | -2.0                      | 60      | 26†  | 12     | 10   | 30                       | 7.46  | +3.57                     | 2.48                 | 8.5                       | 10                           | 13    | 10         | 8                            | w.        | Joseph W. Belt.             |
| Williamsport.....       | Lycoming.....     | 521             | 46                      | 34.6                         | -3.0                      | 62      | 30   | 7      | 9    | 37                       | 4.54  | +1.34                     | 2.03                 | 17.5                      | 12                           | 8     | 5          | 18                           | w.        | Miss Veronica E. April.     |
| York.....               | York.....         | 400             | 44                      | 36.4                         | -4.2                      | 65      | 30   | 8      | 9†   | 39                       | 6.17  | +3.01                     | 1.99                 | 12.0                      | 10                           | 14    | 8          | 9                            | w.        | York Water Co.              |
| Ohio Drainage.          |                   |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam II.....      | Beaver.....       | 700             | 40                      | 33.4                         | -7.8                      | 66      | 30   | 4      | 9    | 34                       | 2.66  | -0.69                     | 0.86                 | 4.2                       | 17                           | 2     | 11         | 18                           | sw.       | U. S. Engineer.             |
| Bradford.....           | McKean.....       | 1,460           | 13                      | 28.0                         | -8.1                      | 66      | 30   | 0      | 9    | 41                       | 2.48  | -0.75                     | 0.70                 | 26.7                      | 18                           | 7     | 3          | 21                           | nw.       | Supt. Timber Pres. Plant.   |
| Brookville.....         | Jefferson.....    | 1,173           | 42                      | 29.6                         | -4.2                      | 70      | 31   | -6     | 17   | 45                       | 2.29  | -0.79                     | 0.48                 | 10.5                      | 12                           |       |            |                              |           |                             |



Daily Precipitation for March, 1932

| Stations           | Drainage Basin | Day of month |     |     |      |      |      |      |     |     |    |     |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      | Total |      |
|--------------------|----------------|--------------|-----|-----|------|------|------|------|-----|-----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|------|
|                    |                | 1            | 2   | 3   | 4    | 5    | 6    | 7    | 8   | 9   | 10 | 11  | 12 | 13 | 14 | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29   | 30   | 31   |       |      |
| Atlantic Drainage. |                |              |     |     |      |      |      |      |     |     |    |     |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |       |      |
| Allentown          | Lehigh         |              |     |     |      |      |      | 1.07 |     |     |    |     |    |    | T. |     |     | .80 |     |     |     |     |     |     |     |     |     |     |      |      |      | 4.58 |       |      |
| Altoona            | Juniata        |              |     | .38 |      | .90  |      | .16  |     |     |    | .05 |    |    |    | .02 |     | .48 |     |     | .26 |     | .43 | .26 |     |     | .26 | .22 | 1.67 |      | .60  | 5.66 |       |      |
| Ansonia            | W. Br. Susq.   | T.           |     |     |      |      |      |      |     |     |    |     |    |    |    |     |     | .04 |     |     | .07 | .01 | .02 | .40 |     | .03 | T.  |     | .25  | .34  | .03  | .04  | 1.63  |      |
| Ardmore            | Lower Del.     |              | .06 |     | 1.62 |      |      |      |     |     |    |     |    |    |    | .03 |     | .73 |     |     |     |     |     |     |     |     |     |     |      |      |      | .71  | 6.35  |      |
| Arendtsville       | Lower Susq.    |              | .16 | .68 | 1.52 |      |      |      |     |     |    |     |    |    |    |     |     | .47 |     |     |     |     |     | .69 | .32 |     | .13 |     |      | 1.61 |      | .51  | 5.96  |      |
| Baker's Summit     | Juniata        |              |     | .58 | .47  |      |      |      |     |     |    |     |    |    |    |     |     | .64 |     |     |     |     |     | .50 | .22 |     | .06 |     |      |      |      | .50  | 3.74  |      |
| Bedford            | Juniata        |              | .48 |     | .29  |      |      |      |     |     |    |     |    |    |    |     |     | .53 |     |     |     |     |     | .65 | .13 |     | .03 | .23 | 1.38 |      | .40  | 4.12 |       |      |
| Bellefonte         | W. Br. Susq.   | T.           | .17 |     | .72  | .03  | T.   | T.   | .01 | T.  | T. | T.  | T. | T. | T. | .28 | T.  | .03 | T.  | .10 | .17 | T.  | .01 | T.  |     |     | .17 | .34 | .94  | T.   | .69  | 3.56 |       |      |
| Bethlehem          | Lehigh         |              |     | T.  | .61  | .32  |      |      |     |     |    |     |    |    |    |     |     | .78 | .01 | T.  |     |     |     | .10 | .48 |     | .11 |     | 1.80 |      | .51  | 4.63 |       |      |
| Bloersville        | Lower Susq.    |              | .45 |     | 1.22 |      |      |      |     |     |    |     |    |    |    |     | .55 |     |     |     |     |     |     | .55 | .55 |     | .05 | T.  | 2.00 |      | .70  | 5.62 |       |      |
| Buffalo Mills      | Juniata        |              | .26 | .27 |      | .55  |      |      |     |     |    |     |    |    |    |     |     | .15 | .53 |     |     |     |     | .59 | .19 |     |     | .10 | 1.98 | .02  | .13  | 4.77 |       |      |
| Carlisle           | Lower Susq.    |              | .62 |     | 1.52 | .18  |      |      |     |     |    |     |    |    |    |     |     | .47 |     | T.  |     |     | .40 | .25 |     |     | .10 | .09 | 1.96 |      | .89  | 5.98 |       |      |
| Catawissa          | N. Br. Susq.   |              | .07 |     | 1.55 | .06  |      |      |     |     |    |     |    |    |    |     | T.  | .38 |     |     |     |     |     |     |     |     |     | .48 | .68  | 1.10 |      | .60  | 5.07  |      |
| Center Hall        | Susquehanna    |              | .21 |     | .82  |      |      |      |     |     |    |     |    |    |    |     |     | .14 |     |     |     |     |     | .15 | .27 |     | .12 | .11 | 1.74 |      | 1.25 | 4.66 |       |      |
| Chambersburg       | Potomac        |              | .78 |     | 1.06 | .16  |      |      |     |     |    |     |    |    |    |     |     | .54 |     |     |     |     |     | .64 | .36 |     |     | .04 | .22  | 1.83 |      | .39  | 5.52  |      |
| Clearfield         | W. Br. Susq.   |              | .37 |     | .35  | .06  | .02  | T.   | T.  | T.  |    |     |    |    |    |     |     | .20 |     |     |     | .05 | .10 | .50 |     | T.  |     | .32 | .30  | .60  | .05  | .02  | 2.94  |      |
| Coatesville        | Lower Del.     |              | .20 |     | 1.02 | .05  |      |      |     |     |    |     |    |    |    | .05 |     | .70 |     |     |     |     |     | .54 | .33 |     |     | .25 | .23  | 2.26 |      | .64  | 6.27  |      |
| Colebrook          | Lower Susq.    |              | .42 |     | *    | 1.10 |      |      |     |     |    |     |    |    |    | .01 | .01 | .52 |     |     |     |     |     | .39 | .30 |     |     | .21 | .08  | 1.78 |      | .58  | 5.40  |      |
| Conshohocken       | Schuylkill     |              | .04 | T.  | 1.48 | .62  |      |      |     |     |    |     |    |    |    | .03 |     | .02 | .61 |     |     |     |     | .64 | .61 |     |     | .11 | .79  | 1.95 |      | .26  | 7.16  |      |
| Cresson            | Juniata        |              | .54 |     | .61  | .30  |      |      |     |     |    |     |    |    |    |     |     | .59 |     | .24 |     |     |     | .73 | .20 |     |     | .32 | .99  | 1.02 | .12  | .44  | 6.10  |      |
| Doylestown         | Lower Del.     |              | T.  | T.  | .87  | .28  |      |      |     |     |    |     |    |    |    |     |     | .65 |     |     |     |     |     | .02 | .42 |     |     | .17 | T.   | 1.96 |      | .19  | 4.56  |      |
| Emporium           | W. Br. Susq.   |              | .17 |     | .80  | .10  |      |      |     |     | T. | T.  | T. | T. | T. | T.  |     | T.  |     | .20 | .10 |     |     | .30 | .58 |     | .10 | T.  |      | .30  | T.   | 1.26 | 4.34  |      |
| Ephrata            | Lower Susq.    |              | .27 |     | 1.16 | .09  |      |      |     |     |    |     |    |    |    |     |     | .56 |     |     |     |     |     | .31 | .31 |     |     | .18 | .05  | 1.98 |      | .24  | 5.15  |      |
| Forest City        | N. Br. Susq.   | .11          |     |     |      | .35  | .09  |      |     |     |    |     |    |    |    |     | .03 | .04 |     |     |     |     |     |     |     |     |     | .21 | .80  | .03  | T.   | .20  | 2.06  |      |
| Freeland           | Lehigh         |              |     | .02 |      | 1.45 | .21  |      |     | T.  | T. | T.  | T. | T. | T. | .01 |     | .31 | T.  | .01 | .08 | .32 | T.  |     |     |     | T.  | .45 | 1.06 | .92  |      | 4.84 |       |      |
| Galeton            | W. Br. Susq.   |              | .04 |     | .53  | .34  | T.   | T.   | T.  | T.  | T. | T.  | T. | T. | T. |     |     | .11 |     | .17 | .03 | .46 | .32 |     | .03 |     | .37 |     | .44  |      | .68  | 3.52 |       |      |
| George School      | Lower Del.     |              | .06 | T.  | .96  | .20  |      |      |     |     |    |     |    |    |    | .04 | T.  | .67 | .02 | .02 |     |     |     | .10 | .57 |     |     | .19 | .02  | 2.73 |      | .17  | 5.75  |      |
| Gettysburg         | Potomac        |              | .78 | T.  | 1.65 | .13  |      |      |     |     |    |     |    |    |    |     |     | .51 |     |     |     |     |     | .43 | .22 |     |     | .09 | .14  | 1.47 |      | .52  | 5.94  |      |
| Girardville        | Lower Susq.    |              | .09 |     |      | 1.62 |      |      |     |     |    |     |    |    |    | .06 |     | T.  | .45 |     |     |     |     | .33 |     |     |     | .34 | 1.78 |      |      | .53  | 5.21  |      |
| Gordon             | Lower Susq.    |              | .06 |     | *    | 1.14 |      |      |     |     |    |     |    |    |    | .10 |     | .50 |     |     |     |     |     | .35 |     |     |     | .42 |      | 2.55 |      | .52  | 5.54  |      |
| Gouldsboro         | Lehigh         |              |     |     |      | .65  | .36  |      |     |     |    |     |    |    |    | .06 |     |     |     |     |     |     | .09 |     |     |     |     |     | 1.35 |      | .20  | 2.76 |       |      |
| Graterford         | Schuylkill     |              |     | .04 | .72  | .65  |      |      |     |     |    |     |    |    |    |     |     | .91 |     |     |     |     |     | .53 | .06 |     |     | .11 | .04  | 2.13 |      | .36  | 5.55  |      |
| Hamburg            | Schuylkill     |              | .03 |     | .62  |      |      |      |     |     |    |     |    |    |    |     |     | .72 |     |     |     |     |     | .08 | .43 |     |     | .30 | .10  | 1.90 |      | .34  | 4.52  |      |
| Hanover            | Lower Susq.    |              | .76 |     | 2.05 | .15  |      |      |     |     |    |     |    |    |    |     |     | .54 |     |     |     |     |     | .41 | .21 |     |     | .08 | .13  | 1.83 |      | .45  | 6.61  |      |
| Harrisburg         | Lower Susq.    |              | .46 |     | 1.40 | T.   |      |      |     |     |    | T.  |    |    |    | .02 |     | .01 | .50 |     |     |     |     | .42 | .26 |     |     | .13 | .67  | 1.51 |      | .42  | 5.80  |      |
| Hawley             | Upper Del.     | .06          |     |     |      | *    | 1.55 | .11  |     |     |    |     |    |    |    |     |     | .16 | .13 |     | T.  |     |     | .36 | T.  |     |     |     | .32  | 1.40 | .79  | T.   | .48   |      |
| Hollisterville     | Upper Del.     | .09          |     |     |      |      | 1.40 | .10  |     |     |    |     |    |    |    | .02 |     |     | .02 | .20 |     |     |     | .33 |     |     |     |     | .42  | 1.12 | 1.05 |      | 4.75  |      |
| Holtwood           | Lower Susq.    |              | .08 | .29 | 1.31 |      |      |      |     |     |    |     |    |    |    |     |     | .05 | .48 |     |     |     |     | .48 | .40 |     |     |     | .18  | 2.20 | .04  |      | .01   | 5.52 |
| Huntingdon         | Juniata        |              | .54 |     | .80  | T.   |      |      |     |     |    |     |    |    |    |     |     | .44 |     |     |     | .01 | .45 | T.  |     |     | .33 | .17 | .08  | 1.85 |      | .56  | 5.23  |      |
| Hyndman            | Potomac        |              | .58 |     | .34  |      |      |      |     |     |    |     |    |    |    |     |     | .56 |     |     |     | .05 | .50 | .29 | T.  |     |     | .06 | .39  | 2.08 | T.   | .06  | 4.91  |      |
| Kylestown          | W. Br. Susq.   |              |     | .17 |      | .71  | .23  |      |     | .05 |    |     |    |    |    | .02 |     |     | .22 | .12 | .02 |     |     | .45 |     |     |     | .40 |      | .94  |      | .55  | 3.43  |      |
| Lakeville          | Upper Del.     | .02          | .04 |     |      | 1.05 | .18  | .02  | T.  |     |    |     |    |    |    |     |     | .52 |     |     |     |     |     | .40 | .41 |     |     | .12 | .05  | 2.66 |      | .33  | 6.19  |      |
| Lancaster          | Lower Susq.    |              | .35 |     | 1.25 |      |      |      |     |     |    |     |    |    |    | .10 |     |     | .52 |     |     |     |     |     | .38 |     | T.  | T.  | .30  | T.   |      |      | .35   | 3.57 |
| Lansford           | Lehigh         |              |     |     | T.   |      | .82  | T.   |     |     |    |     |    |    |    | .02 |     |     |     | .38 |     | .05 | T.  | .31 | T.  |     | .05 | T.  |      | .95  | T.   | .55  | 2.91  |      |
| Lawrenceville      | N. Br. Susq.   | T.           | T.  |     |      | .10  | .30  | .10  |     | T.  |    |     |    |    |    |     |     | .61 |     |     |     |     |     | .30 | .30 |     |     | .30 | 1.80 | .10  |      | T.   | .46   | 5.25 |
| Lebanon            | Lower Susq.    |              | .21 |     | 1.30 | T.   |      |      |     | T.  |    |     |    |    |    |     | .04 |     | .36 |     |     |     |     | .13 | .30 |     |     |     | .12  | .06  | 1.99 |      | .48   | 5.41 |
| Lewisburg          | W. Br. Susq.   |              | .11 | .01 | 1.66 | .10  |      |      |     |     |    |     |    |    |    |     |     | .36 |     |     |     |     |     | .25 | .27 |     |     | T.  | .12  | .06  | 1.99 |      | .48   | 5.41 |
| Lloyd              | do.            |              | .26 |     | .08  |      |      |      |     |     |    |     |    |    |    |     |     |     |     | T.  |     |     |     | .32 | .28 |     |     |     | .55  |      | 1.08 |      | .64   | 3.30 |
| Lock Haven         | W. Br. Susq.   |              | .13 |     | .22  | .67  |      |      |     |     |    |     |    |    |    |     |     | .17 |     |     |     | .05 | .28 | .24 |     |     |     | T.  | .15  |      | 1.95 | .01  | .40   | 4.27 |
| Lykens             | Susquehanna    |              | .20 |     | 1.50 | .74  |      |      |     |     |    |     |    |    |    |     | .05 |     | .60 |     |     |     |     | .11 | .19 |     |     | .20 | T.   | 2.12 |      | .57  | 6.28  |      |
| Marcus Hook        | Lower Del.     |              |     |     | 2.11 |      |      |      |     |     |    |     |    |    |    |     |     | *   |     | *   |     |     |     | .58 | .42 |     |     |     | T.   | 2.16 |      | .50  | 6.62  |      |
| Mauch Chunk        | Lehigh         |              |     |     | 1.09 | .42  |      |      |     |     |    |     |    |    |    |     |     | .51 |     |     |     |     |     | .15 | .35 |     |     | .25 | .19  | 1.78 |      | .85  | 5.59  |      |
| Mifflintown        | Juniata        |              | .65 |     | .93  | .12  |      |      |     |     |    |     |    |    |    |     |     | .50 |     |     |     | .05 | .21 | .17 |     |     |     | .12 | .01  | 1.48 |      | .57  | 4.81  |      |
| Montrose           | N. Br. Susq.   |              |     |     | .70  | .60  |      |      |     |     |    |     |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |       |      |



## Daily Precipitation for March, 1932—Continued from page 13

| Stations        | Drainage Basin | Day of month |     |    |      |     |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |      |      |      |     |      | Total |      |
|-----------------|----------------|--------------|-----|----|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|------|-----|------|-------|------|
|                 |                | 1            | 2   | 3  | 4    | 5   | 6    | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22   | 23  | 24  | 25  | 26  | 27   | 28   | 29   | 30  | 31   |       |      |
| Ohio Drainage.  |                |              |     |    |      |     |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |      |      |      |     |      |       |      |
| Beaver Dam      | Ohio           |              |     |    | .42  | .03 | .08  | .20 |      |     |     |     |     |     | .10 | .03 |     | .06 | .10 | .02 | .13 | .25 | .61  |     | .02 |     |     | .05  | .32  | .05  |     | .19  | 2.66  |      |
| Beaver Falls    | Beaver         |              |     | T. | .38  | .03 | .09  | .23 | T.   | T.  | T.  | T.  |     |     | .05 | .03 |     | .03 | .02 | T.  | .07 | .26 | .65  | T.  | .04 |     | T.  | .01  | .35  | .01  |     | .16  | 2.41  |      |
| Bradford        | Allegheny      |              |     |    | .10  |     | .10  | .40 |      |     | .04 | .03 |     |     | .02 | .05 | .04 |     |     | .22 | .02 | .35 | .17  | .04 |     |     |     | .10  | .02  | .04  | .04 |      | .70   | 2.48 |
| Brookville      | do             |              |     |    |      | .19 | .25  |     | .10  |     |     | .05 |     |     | T.  | T.  |     | .08 |     |     | .20 |     | .48  | .05 |     |     |     | .12  | .17  | .35  |     | .25  | 2.22  |      |
| Butler          | Ohio           |              |     |    | .38  |     |      | .33 |      |     | T.  |     |     |     | T.  | .03 |     | .03 |     |     | .01 | .32 | .38  |     | .02 |     | .25 |      | .35  | .02  |     | .61  | 2.77  |      |
| Chambersville   | Allegheny      |              |     |    | .21  | .54 |      | .20 |      |     | T.  |     |     |     | .05 | T.  |     | .32 |     | .01 | .17 | .24 | .35  |     | T.  |     | .24 |      | .39  |      |     | 1.03 | 3.75  |      |
| Clairton        | Monongahela    |              | T.  | T. |      |     | .20  | .30 | T.   | T.  | T.  | T.  |     |     | .05 | .02 |     | .04 | .34 | .08 | T.  | .32 | .29  |     | T.  | T.  | .14 | .62  | .05  |      | T.  | .68  | 3.49  |      |
| Claysville      | Ohio           |              |     |    | .55  |     | .63  |     |      |     | T.  | T.  | T.  |     | .01 | .03 |     | .39 |     | .01 | .02 | .32 | .33  |     | .01 |     | .19 | .25  | .78  |      |     | .85  | 4.37  |      |
| Clymer          | Conemaugh      |              |     |    | .40  |     | .02  | .10 |      |     | .03 |     |     |     |     | .03 |     |     |     |     | .80 | .20 |      | .05 |     |     |     |      | .95  |      |     | .65  | 3.23  |      |
| Confluence      | Youghiogheny   |              |     |    | .15  | .32 | .11  | .80 | .04  |     |     | .07 | .07 |     | .10 | .09 | .11 |     | .05 | T.  | .05 | .02 | .04  | .52 | .05 | .01 | T.  |      | .36  | 1.69 | .14 |      | .05   | 5.34 |
| Corry           | Allegheny      |              |     |    | .15  |     | .18  | .37 | .03  |     | .04 |     | .07 | .07 |     | .01 | .03 |     | .05 |     | .11 | .06 |      | .55 | .02 |     |     | .31  | .21  | .18  |     | .13  | .60   | 3.45 |
| Coudersport     | Allegheny      |              |     |    |      |     | 1.03 | .11 |      |     |     |     |     |     |     | .01 | .03 |     |     |     |     |     |      |     |     |     |     | .27  | .18  | .97  | .05 |      | .73   | 5.41 |
| Derry           | Conemaugh      |              |     |    | .33  |     | .55  | .06 |      |     | .06 |     |     |     |     | .45 | .08 |     | .12 |     |     | .19 | .43  | .27 |     |     |     | .27  | .18  | .97  | .05 |      | .73   | 5.41 |
| Donora          | Monongahela    |              |     |    | .31  | T.  | .12  | .05 | T.   | T.  | T.  | T.  |     | .01 | .01 | .01 | .01 |     | .45 | .01 | T.  | .12 | .37  | .30 |     | T.  | T.  | .11  |      | 1.16 |     |      | .76   | 4.25 |
| Ebensburg       | Conemaugh      |              |     |    | .02  |     | .58  | .35 |      |     | .05 |     |     |     | .20 |     | .06 |     |     |     | .02 | T.  | .20  | .18 |     |     | .18 | .14  | 1.20 |      | T.  | .15  | 3.73  |      |
| Elk Lick        | Youghiogheny   |              |     |    | 1.20 |     | *    | *   | 1.00 |     | .20 | .10 | .10 |     | .10 | .20 | .20 |     | .10 |     |     | .10 | 1.40 |     |     |     | .35 | .70  | .90  |      |     | .60  | 7.25  |      |
| Falls Creek     | Allegheny      |              |     |    | .26  |     | *    | .68 |      |     | .10 | .18 |     |     | T.  | .07 |     |     |     | .14 |     | .19 | .28  |     | .07 |     | .32 |      | .56  |      |     | .89  | 3.74  |      |
| Franklin        | Allegheny      |              |     |    | .13  | .14 | .02  | .53 | .06  |     | .09 | .07 |     |     | .04 | .02 |     |     |     | .06 |     | .28 | .74  | .06 | .05 | *   | .07 | .14  | .03  |      |     | .36  | 2.89  |      |
| Freeport        | do             |              |     |    | .29  | .07 | .05  | .29 |      |     | .09 | .07 |     |     | .03 |     |     |     |     | .04 | .19 |     | .10  | .30 | .01 | .01 | T.  | .02  | .15  | .69  | .03 |      | .29   | 2.86 |
| Greensboro      | Monongahela    |              |     |    | .34  | .23 | .16  | .37 | T.   |     |     |     |     |     | .04 | T.  |     | .20 | .54 | T.  | .10 | .37 | .18  |     |     |     |     |      | 1.90 | .06  |     | .10  | 4.59  |      |
| Greensburg      | Youghiogheny   |              | T.  |    | .40  | .03 | .45  | .07 | .02  | .01 | .01 | .01 | T.  | .06 | .05 | .02 | T.  | .45 |     |     | .15 | .45 | .36  |     | T.  |     | .16 | .52  | .99  |      |     | .77  | 4.98  |      |
| Greenville      | Beaver         |              |     |    | .10  |     | .40  | .09 | .04  |     | .07 | .09 |     |     |     |     |     |     |     |     | T.  | .05 | .31  | .06 | .04 |     | .11 |      |      |      |     | .94  | 2.35  |      |
| Grove City      | do             |              |     |    | .42  |     | .20  | T.  |      |     | .10 | T.  | T.  | T.  | .03 |     |     |     |     |     | .02 | .02 | .03  |     | .01 |     | .23 |      | .02  |      |     | .60  | 1.68  |      |
| Herr's Isl. Dam | Ohio           |              |     | T. | .36  | .10 | .05  | .21 | T.   | T.  | .01 | T.  | T.  | T.  | .01 | .06 | .01 |     | .01 | .20 |     | .26 | .70  | .49 | .05 |     | .03 | .10  | .83  | .03  |     | .23  | 8.74  |      |
| Ingram          | Ohio           |              | T.  |    | .51  |     | .32  | .01 | .01  | T.  | T.  | T.  | T.  |     | .01 | .07 | T.  |     | .22 |     | .02 | .11 | .56  | .47 |     | T.  | .13 | .08  | .77  | T.   |     | .67  | 3.96  |      |
| Irwin           | Monongahela    |              | T.  |    | .17  | .04 | .25  | .01 |      |     |     |     |     |     | T.  | T.  |     | .25 |     |     | .03 | .30 | .12  |     |     |     | .10 | .13  | .35  |      |     | .52  | 2.27  |      |
| Johnstown       | Conemaugh      |              |     |    | .29  |     | 1.05 | .03 | T.   | T.  | .04 |     | .02 |     | .10 | .05 | T.  | .09 | .50 | T.  | .25 | .12 | .54  | .30 |     | .02 | .33 | .40  | 1.05 | .05  |     | .72  | 5.95  |      |
| Kegonsa         | Youghiogheny   |              | T.  |    | .15  | .05 | .75  | .03 | T.   | .02 | .02 |     | .03 | .05 | .07 | T.  | .17 | .53 | T.  | .19 | .40 | .31 | .02  | T.  |     | .44 | .13 | 1.02 |      | .04  |     | .72  | 5.38  |      |
| Lake Lynn       | Monongahela    |              |     |    | .22  | .32 | .14  | .18 |      | .02 |     |     |     |     | .07 |     | .01 | .27 | .50 |     | .18 | .22 | .24  |     |     |     |     | .18  | 1.00 | .06  |     | .68  | 4.29  |      |
| Linesville      | Beaver         |              |     |    |      |     | .19  | .30 |      |     | .19 | .17 |     |     | .04 | .02 |     | .09 |     | .06 | .10 | .06 | .79  | .04 |     | T.  | .02 |      |      |      |     | .23  | 2.30  |      |
| Lock No. 2      | Ohio           |              |     |    | .47  | T.  | .05  | .14 | .02  | .03 | T.  | T.  | T.  | T.  | .05 |     |     | .06 | .17 | .04 | .16 | .26 | .59  |     | .01 | .01 | .05 | .10  | .69  | T.   |     | .22  | 3.12  |      |
| Lock No. 4      | Monongahela    |              |     |    | .20  | .19 | .11  | .32 |      | T.  | T.  | T.  | T.  |     | .02 | .02 | .01 |     | .08 | .42 | .02 | .13 | .38  | .22 | .03 |     | T.  | .16  | 1.59 | T.   |     | .19  | 4.12  |      |
| Lycippus        | Conemaugh      |              | .20 |    | .30  |     | .80  | T.  | T.   | T.  |     |     |     |     | .01 | T.  | T.  |     | .71 | .03 |     | .77 | T.   | T.  |     |     | .51 | .17  | 1.57 |      | T.  | .51  | 5.58  |      |
| McKeesport      | Monongahela    |              |     |    | .19  | .11 | .05  | .31 |      |     |     |     |     |     | T.  | .02 | T.  |     | .03 | .09 | .01 | .11 | .52  | .26 |     | .01 | .04 | .94  |      |      | .19 | 2.88 |       |      |
| Meadville       | Allegheny      |              |     |    | .05  |     | .18  | .33 | .10  |     | .10 | .5  |     |     | .03 | .12 | .03 |     | .29 |     | .07 | .10 | .09  | .60 | .04 | T.  | .03 |      |      |      |     | .75  | 2.67  |      |
| Mount Lebanon   | Ohio           |              | .01 |    | .47  | .01 | .44  | T.  | T.   | T.  | T.  | T.  | T.  |     | .03 | .12 | .03 |     | .29 |     | T.  | .61 | .25  |     | T.  | T.  | .13 | .05  | .57  |      | T.  | .67  | 3.53  |      |
| Natrona         | Allegheny      |              |     |    | .43  | .11 | .05  | .22 | .01  | T.  | T.  | T.  |     |     | .03 |     |     | .04 | .20 | .01 | .21 | .35 | .39  | .01 | T.  | .01 | .01 | .17  | .81  | .04  |     | .29  | 3.39  |      |
| New Castle      | Beaver         |              |     | T. | .39  | .02 | .14  | .09 | .02  | T.  | T.  |     |     |     | .02 | T.  | T.  |     | .05 | .09 | .20 | .77 | .03  | .02 |     |     | .08 | .03  | .11  | .01  |     | .28  | 2.35  |      |
| Newell          | Monongahela    |              |     |    | .30  |     | .06  |     |      |     |     |     |     |     |     |     |     | .60 |     |     | .08 | .35 | .32  |     |     |     | .24 | .21  | .61  |      |     | .49  | 3.26  |      |
| Parkers Landing | Allegheny      |              |     |    | .11  | .03 | T.   | .20 | .10  | T.  | .05 | .07 | T.  | T.  | .10 | T.  |     | T.  |     | .05 | .10 | .20 | .99  | T.  | .10 | T.  | .03 | .44  | .15  | T.   |     | .41  | 3.11  |      |
| Pennline        | Beaver         |              |     |    | .06  | T.  | .04  | .13 | .18  |     | .03 | .02 | .02 | .05 | .02 | .03 | T.  | T.  | T.  | .07 | .10 | .14 | .60  | .02 |     |     | .02 | .07  |      |      |     | .28  | 1.88  |      |
| Pittsburgh      | Ohio           |              | T.  | T. | .02  | .44 |      | .20 | T.   | T.  | T.  | T.  | T.  |     | .02 | .09 | T.  |     | .24 |     | .09 | .02 | .56  | .32 |     | .01 | T.  | .05  | .37  | .25  | T.  | .55  | 3.24  |      |
| Punxsutawney    | Allegheny      |              |     |    | T.   |     | T.   | .46 | .08  |     | T.  | T.  | T.  |     | .06 |     |     | T.  | T.  |     | .24 | .18 | T.   | .06 |     | T.  | T.  | .46  | .24  |      |     | .20  | 1.98  |      |
| Ridgway         | do             |              | .01 |    |      | .05 |      | .45 | .01  |     | .02 | .02 | .02 | T.  | T.  | T.  |     | .01 |     | .03 |     | .05 | .10  | .48 | .10 |     | .37 |      | .20  | .02  |     | .17  | 1.94  |      |
| Saltsburg       | Conemaugh      |              |     |    | .13  | .19 | .08  | .62 | .02  | T.  | .02 | T.  | T.  |     | .10 | T.  |     | .15 | .26 | T.  | .26 | .47 | .30  | .07 | T.  |     | T.  | .26  | .70  | .04  |     | .17  | 3.84  |      |
| Sharon          | Beaver         |              |     |    | .28  | .03 | .20  | T.  | T.   | T.  | T.  | T.  | T.  |     | T.  | T.  |     |     |     |     | .28 | .63 |      | T.  |     | .05 | T.  | .05  |      | T.   |     | .32  | 1.79  |      |
| Smethport       | Allegheny      |              |     |    | .02  | T.  |      | .38 | .09  |     | T.  | T.  | T.  |     | T.  | .06 | T.  |     |     | .05 | .12 | .20 | .48  | .12 | T.  | T.  | .02 | .18  | .21  | .08  |     | .22  | 2.23  |      |
| Somersport      | Youghiogheny   |              |     |    | .47  | T.  | .42  | .04 | T.   |     | T.  | T.  | T.  |     | .02 | .11 | T.  | .03 | .77 |     |     | .05 | .58  | .33 |     |     | .29 | .54  | .78  | .01  |     | .52  | 4.96  |      |
| Springdale      | Allegheny      |              |     |    | .34  | .12 | .05  | .15 |      | T.  | T.  | T.  | T.  |     | .07 | .01 | T.  | .04 | .19 | .01 | .16 | .45 | .41  | .02 | T.  | .01 | .05 | .16  | .80  | .04  |     | .30  | 3.38  |      |
| Uniontown       | Monongahela    |              |     |    | .35  | .02 | .64  | .04 | T.   |     |     |     |     |     | .06 | T.  |     | .01 | .69 |     | .15 | .42 | .22  |     |     |     | .17 | .61  | 1.41 |      |     | .74  | 5.57  |      |
| Unity Reservoir | Youghiogheny   |              |     |    | .35  | .02 | .60  | .10 | T.   |     |     |     |     |     | .04 | .10 | T.  | .57 |     | T.  | .15 | .42 | .22  |     | T.  |     | .23 | .39  | .98  |      |     | .74  | 4.91  |      |
| Vandergrift     | Conemaugh      |              |     |    |      |     | .77  | .68 | .50  |     |     |     |     |     | T.  | .01 |     | .04 | .23 |     |     | .52 | .17  |     |     |     |     |      | 1.00 |      |     | .50  | 4.42  |      |
| Warren          | Allegheny      |              | .03 |    | .42  |     | .10  | .50 | .10  |     | .15 | .05 | .05 | .05 | .10 | .10 | .07 |     | .02 | .10 | .15 | .15 | .25  | .11 | .02 | .02 | .24 |      | .04  | .02  |     | .78  | 3     |      |



Daily Temperatures for March, 1932

| Stations           | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |
|--------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| Allentown.....     | Maximum..... | 45 | 50 | 58 | 40 | 55 | 38 | 34 | 26 | 22 | 29 | 37 | 35 | 30 | 32 | 27 | 34 | 38 | 39 | 54 | 41 | 35 | 55 | 46 | 53 | 56 | 59 | 49 | 44 | 48 | 59 | 58   | 42.8 |
|                    | Minimum..... | 34 | 36 | 28 | 32 | 32 | 34 | 21 | 14 | 10 | 10 | 15 | 23 | 22 | 22 | 14 | 15 | 20 | 31 | 27 | 30 | 23 | 27 | 30 | 26 | 34 | 44 | 34 | 31 | 27 | 37 | 26.0 |      |
| Altoona.....       | Maximum..... | 44 | 48 | 56 | 51 | 50 | 48 | 23 | 20 | 17 | 22 | 28 | 31 | 28 | 28 | 22 | 35 | 43 | 38 | 51 | 43 | 33 | 52 | 47 | 45 | 62 | 58 | 53 | 37 | 46 | 63 | 57   | 41.3 |
|                    | Minimum..... | 31 | 30 | 29 | 35 | 30 | 22 | 10 | 5  | 3  | 3  | 14 | 19 | 14 | 16 | 8  | 5  | 29 | 26 | 23 | 21 | 23 | 27 | 22 | 26 | 26 | 38 | 33 | 26 | 29 | 28 | 39   | 22.3 |
| Bedford.....       | Maximum..... | 46 | 48 | 63 | 58 | 55 | 49 | 23 | 24 | 19 | 24 | 32 | 34 | 31 | 28 | 24 | 41 | 44 | 41 | 56 | 51 | 38 | 55 | 52 | 49 | 66 | 63 | 55 | 37 | 49 | 69 | 61   | 44.7 |
|                    | Minimum..... | 33 | 34 | 34 | 37 | 32 | 23 | 12 | 10 | 6  | 9  | 19 | 16 | 17 | 18 | 13 | 9  | 33 | 29 | 24 | 25 | 28 | 30 | 28 | 25 | 24 | 36 | 35 | 29 | 31 | 24 | 41   | 24.6 |
| Bellefonte.....    | Maximum..... | 43 | 42 | 56 | 43 | 51 | 43 | 20 | 19 | 15 | 22 | 27 | 31 | 25 | 28 | 22 | 33 | 41 | 38 | 50 | 37 | 30 | 44 | 45 | 45 | 58 | 55 | 45 | 36 | 45 | 58 | 53   | 38.8 |
|                    | Minimum..... | 33 | 34 | 32 | 26 | 20 | 12 | 8  | 4  | 9  | 21 | 17 | 16 | 12 | 10 | 8  | 31 | 26 | 26 | 23 | 22 | 28 | 25 | 25 | 24 | 40 | 32 | 29 | 25 | 20 | 32 | 22.6 |      |
| Brookville.....    | Maximum..... | 50 | 38 | 41 | 62 | 44 | 55 | 38 | 22 | 20 | 17 | 23 | 29 | 35 | 27 | 30 | 23 | 39 | 42 | 59 | 50 | 34 | 40 | 48 | 45 | 64 | 55 | 45 | 40 | 50 | 70 | 41.3 |      |
|                    | Minimum..... | 28 | 27 | 25 | 25 | 26 | 21 | 16 | 9  | 0  | -5 | 11 | 18 | 11 | 10 | 6  | -4 | -6 | 29 | 20 | 21 | 14 | 23 | 25 | 17 | 24 | 23 | 37 | 30 | 26 | 25 | 18.0 |      |
| Butler.....        | Maximum..... | 37 | 40 | 61 | 58 | 53 | 36 | 34 | 17 | 13 | 20 | 24 | 29 | 26 | 20 | 23 | 35 | 40 | 42 | 49 | 47 | 55 | 50 | 43 | 44 | 63 | 64 | 64 | 59 | 49 | 66 | 60   | 42.6 |
|                    | Minimum..... | 30 | 29 | 27 | 38 | 24 | 25 | 11 | 6  | 2  | 10 | 14 | 11 | 13 | 18 | 9  | 2  | 34 | 27 | 29 | 20 | 19 | 29 | 20 | 30 | 27 | 47 | 35 | 27 | 30 | 31 | 35   | 22.9 |
| Carlisle.....      | Maximum..... | 51 | 50 | 61 | 55 | 56 | 53 | 34 | 24 | 24 | 29 | 39 | 39 | 35 | 34 | 29 | 37 | 40 | 45 | 59 | 54 | 41 | 42 | 54 | 55 | 65 | 64 | 52 | 41 | 52 | 69 | 66   | 45.7 |
|                    | Minimum..... | 36 | 35 | 30 | 33 | 30 | 32 | 17 | 13 | 9  | 10 | 24 | 20 | 23 | 22 | 15 | 11 | 32 | 31 | 25 | 28 | 26 | 27 | 31 | 25 | 24 | 40 | 41 | 32 | 34 | 26 | 48   | 26.8 |
| Catawissa.....     | Maximum..... | 48 | 51 | 60 | 52 | 58 | 49 | 40 | 25 | 21 | 28 | 36 | 37 | 33 | 35 | 28 | 35 | 37 | 41 | 53 | 48 | 35 | 50 | 48 | 48 | 61 | 56 | 50 | 35 | 48 | 60 | 65   | 44.2 |
|                    | Minimum..... | 36 | 35 | 34 | 34 | 29 | 31 | 19 | 12 | 7  | 10 | 21 | 12 | 20 | 15 | 12 | 10 | 31 | 25 | 24 | 28 | 23 | 32 | 29 | 28 | 36 | 47 | 33 | 30 | 26 | 26 | 24   | 25.1 |
| Chambersburg.....  | Maximum..... | 50 | 53 | 63 | 52 | 58 | 45 | 28 | 32 | 28 | 31 | 41 | 41 | 32 | 35 | 31 | 39 | 48 | 45 | 61 | 51 | 38 | 54 | 53 | 57 | 61 | 64 | 58 | 52 | 54 | 69 | 57   | 47.8 |
|                    | Minimum..... | 35 | 33 | 31 | 32 | 32 | 24 | 15 | 11 | 11 | 11 | 21 | 20 | 21 | 21 | 15 | 15 | 32 | 31 | 26 | 28 | 27 | 29 | 30 | 26 | 25 | 42 | 36 | 32 | 33 | 29 | 45   | 26.4 |
| Chambersville..... | Maximum..... | 51 | 41 | 59 | 68 | 52 | 52 | 30 | 34 | 30 | 43 | 50 | 60 | 50 | 43 | 38 | 44 | 46 | 47 | 48 | 40 | 46 | 40 | 44 | 44 | 63 | 61 | 53 | 41 | 47 | 67 | 65   | 48.3 |
|                    | Minimum..... | 30 | 30 | 37 | 36 | 25 | 21 | 10 | 5  | 2  | 6  | 6  | 11 | 12 | 13 | 7  | -1 | 34 | 27 | 26 | 21 | 25 | 29 | 21 | 29 | 23 | 45 | 32 | 25 | 26 | 29 | 31   | 21.7 |
| Claysville.....    | Maximum..... | 49 | 41 | 61 | 58 | 48 | 48 | 22 | 19 | 17 | 23 | 29 | 33 | 29 | 26 | 29 | 43 | 49 | 46 | 53 | 47 | 68 | 67 | 47 | 51 | 65 | 62 | 55 | 45 | 57 | 69 | 65   | 45.8 |
|                    | Minimum..... | 31 | 30 | 33 | 37 | 33 | 19 | 8  | 6  | 3  | 10 | 15 | 9  | 11 | 17 | 9  | 10 | 35 | 28 | 29 | 21 | 29 | 29 | 23 | 31 | 33 | 46 | 33 | 27 | 26 | 31 | 23.8 |      |
| Clearfield.....    | Maximum..... | 45 | 41 | 66 | 58 | 58 | 50 | 28 | 22 | 18 | 23 | 32 | 36 | 33 | 32 | 24 | 36 | 42 | 40 | 50 | 52 | 42 | 45 | 47 | 49 | 62 | 52 | 49 | 43 | 52 | 60 | 61   | 43.5 |
|                    | Minimum..... | 29 | 31 | 25 | 35 | 28 | 26 | 8  | 6  | 3  | 4  | 18 | 13 | 10 | 7  | 20 | 18 | 25 | 18 | 24 | 18 | 27 | 19 | 24 | 22 | 28 | 31 | 25 | 28 | 32 | 35 | 21.1 |      |
| Coatesville.....   | Maximum..... | 48 | 52 | 58 | 45 | 53 | 40 | 34 | 27 | 24 | 31 | 35 | 36 | 30 | 35 | 27 | 34 | 36 | 40 | 57 | 49 | 33 | 54 | 48 | 55 | 60 | 61 | 54 | 42 | 49 | 60 | 58   | 44.0 |
|                    | Minimum..... | 37 | 36 | 32 | 34 | 33 | 33 | 19 | 14 | 10 | 11 | 24 | 21 | 23 | 21 | 15 | 22 | 31 | 30 | 26 | 31 | 24 | 29 | 28 | 28 | 28 | 42 | 41 | 33 | 32 | 49 | 47   | 27.8 |
| Corry.....         | Maximum..... | 38 | 36 | 50 | 41 | 53 | 39 | 23 | 16 | 10 | 15 | 22 | 32 | 28 | 15 | 23 | 38 | 34 | 37 | 35 | 36 | 52 | 39 | 45 | 50 | 56 | 46 | 44 | 40 | 52 | 67 | 58   | 37.1 |
|                    | Minimum..... | 28 | 32 | 30 | 32 | 29 | 20 | 12 | 5  | 0  | 8  | 11 | 20 | 14 | 13 | 9  | 13 | 20 | 8  | 25 | 27 | 18 | 28 | 10 | 24 | 32 | 28 | 25 | 29 | 32 | 42 | 29   | 21.1 |
| Emporium.....      | Maximum..... | 42 | 41 | 58 | 46 | 50 | 40 | 25 | 20 | 18 | 23 | 33 | 26 | 28 | 23 | 35 | 44 | 37 | 47 | 37 | 32 | 45 | 43 | 43 | 59 | 54 | 47 | 37 | 46 | 68 | 59 | 39.8 |      |
|                    | Minimum..... | 34 | 35 | 30 | 38 | 22 | 25 | 18 | 9  | -3 | 9  | 22 | 22 | 13 | 13 | 10 | -3 | 32 | 27 | 23 | 23 | 21 | 30 | 22 | 28 | 32 | 35 | 33 | 28 | 27 | 26 | 35   | 23.1 |
| Erie.....          | Maximum..... | 38 | 36 | 37 | 35 | 44 | 42 | 24 | 17 | 19 | 25 | 25 | 25 | 25 | 25 | 20 | 44 | 43 | 36 | 37 | 29 | 33 | 45 | 39 | 34 | 55 | 57 | 37 | 37 | 43 | 68 | 54   | 36.4 |
|                    | Minimum..... | 31 | 32 | 33 | 31 | 28 | 18 | 16 | 10 | 5  | 15 | 23 | 21 | 18 | 14 | 12 | 10 | 29 | 26 | 27 | 22 | 24 | 25 | 19 | 30 | 31 | 34 | 30 | 30 | 32 | 43 | 30   | 24.2 |
| Franklin.....      | Maximum..... | 38 | 40 | 58 | 42 | 57 | 29 | 19 | 16 | 13 | 23 | 29 | 31 | 27 | 25 | 25 | 45 | 45 | 33 | 39 | 37 | 27 | 45 | 45 | 29 | 33 | 46 | 57 | 45 | 42 | 53 | 68   | 37.9 |
|                    | Minimum..... | 29 | 29 | 25 | 26 | 21 | 22 | 12 | 8  | 1  | 3  | 13 | 18 | 10 | 16 | 9  | -1 | 3  | 26 | 27 | 17 | 21 | 25 | 15 | 17 | 17 | 33 | 29 | 29 | 30 | 30 | 43   | 19.4 |
| Freeland.....      | Maximum..... | 39 | 39 | 53 | 42 | 49 | 40 | 28 | 20 | 18 | 26 | 31 | 33 | 26 | 31 | 20 | 33 | 34 | 37 | 47 | 41 | 29 | 54 | 42 | 45 | 50 | 49 | 48 | 37 | 40 | 56 | 52   | 38.3 |
|                    | Minimum..... | 27 | 28 | 29 | 30 | 23 | 32 | 12 | 4  | 0  | 2  | 16 | 13 | 13 | 12 | 4  | 6  | 22 | 22 | 24 | 21 | 16 | 16 | 21 | 29 | 22 | 39 | 31 | 22 | 21 | 27 | 38   | 20.1 |
| Genesee.....       | Maximum..... | 35 | 34 | 40 | 40 | 45 | 42 | 35 | 20 | 16 | 20 | 32 | 31 | 25 | 24 | 18 | 31 | 35 | 34 | 41 | 34 | 24 | 44 | 37 | 42 | 50 | 50 | 48 | 35 | 39 | 65 | 55   | 36.2 |
|                    | Minimum..... | 29 | 29 | 28 | 30 | 18 | 28 | 18 | 8  | -7 | 4  | 16 | 17 | 9  | 11 | 6  | -6 | 27 | 22 | 15 | 16 | 11 | 23 | 15 | 26 | 17 | 32 | 33 | 24 | 18 | 24 | 33   | 18.4 |
| Gettysburg.....    | Maximum..... | 54 | 52 | 60 | 54 | 54 | 51 | 32 | 31 | 31 | 30 | 37 | 39 | 39 | 35 | 33 | 38 | 40 | 43 | 60 | 54 | 46 | 57 | 52 | 57 | 65 | 61 | 59 | 45 | 53 | 67 | 63   | 48.1 |
|                    | Minimum..... | 35 | 35 | 33 | 32 | 33 | 32 | 16 | 13 | 12 | 11 | 22 | 20 | 28 | 22 | 16 | 15 | 32 | 32 | 29 | 28 | 29 | 32 | 28 | 26 | 43 | 41 | 33 | 33 | 30 | 49 | 48   | 48.0 |
| Greensburg.....    | Maximum..... | 45 | 41 | 61 | 58 | 53 | 47 | 20 | 17 | 15 | 21 | 27 | 32 | 29 | 25 | 24 | 46 | 47 | 41 | 51 | 4  |    |    |    |    |    |    |    |    |    |    |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII.

APRIL, 1932.

No. 4.

## GENERAL SUMMARY.

April was abnormally cool and dry. The temperature deficiency was nearly two degrees. The precipitation averaged only one-half of the April normal. The temperature deficiency was a continuation of the March cold in a modified form. Frosts covered the greater portion of the State at the beginning of the third week but without much damage as vegetation was generally backward due to the low temperature of the soil. Most of the precipitation occurred in the second week, and a moderate drought developed during the remainder of the month. The effects of the drought were most noticeable in the slow growth of the pastures and meadows. Heavy local snows occurred in a few places, but for the State as a whole the snowfall was lighter than usual, and only traces were reported from about one-third of the stations. The large percentage of fair weather during the last half of the month was favorable for field work, which was well advanced. Oats seeding was nearly finished in the southern counties, and most of the corn ground was ready for planting at the close of the month. However, the top soil was a little too dry, and the subsoil was a little too cold for a wholly favorable opening of the crop season. Winter wheat and rye came through the cold months with little damage, and at the end of April these grains were generally looking good, and were making a fine growth. Early field potatoes were mostly planted in the southeastern counties, and were being planted in the central counties at the end of the month. Truck gardening was in full swing. Orchard fruits suffered from freezing in some sections, but for the State as a whole the condition was better than the average. There was an unusual amount of windy and blustery weather, which made it seem more like March than April. Only one severe local storm was reported, and the Stroudsburg Record claimed that it was a tornado. It passed over the town of Tobyhanna, in Monroe County, on the afternoon of the 26th. It unroofed a few houses and destroyed a few smaller buildings. The damage was all done within a few minutes time, and there were some other characteristics of a tornado. One man in the village claimed to have seen a funnel cloud.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 87 stations, was 47.0°, which is 1.7° less than the April normal. The highest monthly mean was 52.6°, at Marcus

Hook, and the lowest was 36.2° at Mt. Pocono. Extremes for the month ranged from a maximum of 86° at Marcus Hook and Phoenixville on the 22d, to a minimum of 14° at Ridgway on the 3d, and at Elk Lick on the 4th. The greatest daily range of temperature was 56° at Clearfield on the 20th and 22d.

## PRECIPITATION.

The average precipitation for the State, as determined from the observations taken at 146 stations, was 1.71 inches, which is a deficiency of 1.73 inches as compared with the normal for the month. The greatest monthly total was 3.73 inches at Greenville, while the least, 0.58 inch, was reported from Forest City. The greatest amount recorded in any 24 consecutive hours was 1.66 inches at Greenville on the 25-26th.

Snowfall for the State averaged 1.2 inches, which is 1.3 inches less than the normal. The greatest monthly total snowfall was 9.0 inches at Clearfield and the greatest 24-hour amount, 5.3 inches, fell at Erie on the 11-12th.

## COMPARATIVE DATA FOR APRIL

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 47.2        | 92      | 12     | 2.52          | 4.23     | 0.99  | 14          | 10            | 6      | 8                      |
| 1889.....                | 49.7        | 88      | 14     | 4.50          | 8.15     | 2.09  | 11          | 8             | 11     | 11                     |
| 1890.....                | 48.6        | 85      | 12     | 3.46          | 5.50     | 1.75  | 13          | 9             | 8      | 8                      |
| 1891.....                | 49.8        | 87      | 11     | 2.08          | 3.54     | 1.12  | 10          | 10            | 10     | 10                     |
| 1892.....                | 46.9        | 85      | 14     | 2.04          | 4.43     | 0.61  | 10          | 10            | 10     | 10                     |
| 1893.....                | 47.7        | 85      | 16     | 4.74          | 6.91     | 2.95  | 7           | 10            | 13     | 14                     |
| 1894.....                | 48.0        | 83      | 5      | 3.62          | 10.00    | 1.69  | 11          | 8             | 11     | 11                     |
| 1895.....                | 49.2        | 90      | 5      | 3.76          | 7.09     | 0.79  | 10          | 8             | 12     | 10                     |
| 1896.....                | 53.0        | 97      | 4      | 1.75          | 3.39     | 0.20  | 10          | 10            | 10     | 8                      |
| 1897.....                | 49.0        | 92      | 12     | 3.30          | 4.63     | 1.20  | 12          | 9             | 9      | 10                     |
| 1898.....                | 45.6        | 84      | 4      | 2.93          | 5.34     | 1.36  | 9           | 8             | 13     | 12                     |
| 1899.....                | 50.2        | 92      | 2      | 1.76          | 3.25     | 0.70  | 15          | 9             | 6      | 6                      |
| 1900.....                | 49.2        | 90      | 13     | 1.57          | 2.80     | 0.60  | 14          | 8             | 8      | 8                      |
| 1901.....                | 47.2        | 95      | 10     | 5.41          | 9.18     | 1.46  | 9           | 5             | 16     | 11                     |
| 1902.....                | 48.0        | 91      | 20     | 3.56          | 7.14     | 1.34  | 8           | 10            | 12     | 9                      |
| 1903.....                | 48.8        | 90      | 12     | 3.53          | 4.93     | 2.16  | 11          | 7             | 12     | 10                     |
| 1904.....                | 44.7        | 86      | 9      | 3.45          | 6.42     | 1.34  | 8           | 8             | 14     | 13                     |
| 1905.....                | 48.4        | 84      | 16     | 2.84          | 4.74     | 1.39  | 9           | 11            | 10     | 12                     |
| 1906.....                | 50.0        | 89      | 12     | 3.13          | 6.96     | 0.75  | 14          | 8             | 8      | 9                      |
| 1907.....                | 43.6        | 84      | 8      | 2.64          | 4.42     | 1.02  | 10          | 7             | 13     | 11                     |
| 1908.....                | 49.8        | 89      | 0      | 3.51          | 6.31     | 1.85  | 12          | 8             | 10     | 12                     |
| 1909.....                | 48.5        | 87      | 8      | 5.39          | 8.42     | 2.67  | 10          | 9             | 11     | 13                     |
| 1910.....                | 52.6        | 89      | 18     | 5.07          | 8.50     | 2.21  | 10          | 9             | 11     | 13                     |
| 1911.....                | 46.2        | 84      | 6      | 3.79          | 5.85     | 1.66  | 11          | 7             | 12     | 13                     |
| 1912.....                | 50.2        | 88      | 18     | 4.39          | 7.31     | 2.41  | 10          | 7             | 13     | 15                     |
| 1913.....                | 50.6        | 90      | 17     | 3.82          | 9.28     | 1.46  | 12          | 6             | 12     | 11                     |
| 1914.....                | 47.3        | 93      | 5      | 4.66          | 7.50     | 1.90  | 10          | 8             | 12     | 14                     |
| 1915.....                | 53.9        | 98      | 15     | 1.92          | 4.41     | 0.46  | 13          | 10            | 7      | 8                      |
| 1916.....                | 48.0        | 87      | 16     | 3.65          | 7.40     | 1.65  | 9           | 9             | 12     | 14                     |
| 1917.....                | 48.5        | 87      | 14     | 2.08          | 4.89     | 0.41  | 11          | 10            | 9      | 9                      |
| 1918.....                | 43.2        | 81      | 12     | 4.53          | 2.41     | 0.30  | 10          | 9             | 11     | 14                     |
| 1919.....                | 48.5        | 90      | 6      | 2.70          | 4.76     | 0.90  | 10          | 10            | 10     | 11                     |
| 1920.....                | 46.0        | 87      | 8      | 4.39          | 11.34    | 2.44  | 9           | 9             | 12     | 16                     |
| 1921.....                | 55.3        | 96      | 10     | 3.11          | 5.06     | 1.12  | 13          | 7             | 10     | 11                     |
| 1922.....                | 50.1        | 91      | 11     | 3.17          | 6.10     | 1.28  | 12          | 9             | 9      | 12                     |
| 1923.....                | 48.3        | 89      | -5     | 2.94          | 5.89     | 1.00  | 14          | 8             | 8      | 9                      |
| 1924.....                | 46.5        | 82      | 6      | 4.15          | 7.52     | 1.77  | 13          | 7             | 10     | 12                     |
| 1925.....                | 51.3        | 96      | 9      | 2.32          | 4.89     | 0.93  | 15          | 7             | 8      | 10                     |
| 1926.....                | 44.9        | 84      | 9      | 2.03          | 4.35     | 0.85  | 12          | 9             | 9      | 9                      |
| 1927.....                | 47.7        | 92      | 17     | 3.52          | 5.59     | 1.65  | 12          | 7             | 11     | 13                     |
| 1928.....                | 46.0        | 88      | 11     | 5.50          | 9.82     | 2.11  | 12          | 8             | 10     | 13                     |
| 1929.....                | 51.4        | 94      | 19     | 6.12          | 8.94     | 3.31  | 9           | 8             | 13     | 15                     |
| 1930.....                | 48.2        | 92      | 9      | 2.71          | 4.43     | 0.66  | 11          | 8             | 11     | 10                     |
| 1931.....                | 48.4        | 85      | 16     | 3.33          | 5.93     | 1.00  | 14          | 6             | 10     | 10                     |
| 1932.....                | 47.0        | 86      | 14     | 1.71          | 3.73     | 0.58  | 14          | 6             | 10     | 8                      |
| Normal and Extremes..... | 48.7        | 98      | -5     | 3.44          | 11.34    | 0.20  | 11          | 8             | 11     | 11                     |



## Climatological Data for April, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers     |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|---------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |               | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |               |                             |
| Allentown          | Lehigh       | 254             | 20                      | 46.8                         | .....                     | 77      | 22    | 27     | 5     | 40                       | 2.22  | -1.54                     | 1.01                 | T.                        | 9                            | 18    | 6          | 6                            | nw.           | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 46.4                         | -1.6                      | 79      | 22    | 18     | 4     | 43                       | 1.79  | -1.34                     | 0.56                 | 1.5                       | 11                           | 21    | 4          | 5                            | w.            | F. E. Rooney.               |
| Armstrong          | Montgomery   | 350             | ...                     | 47.9                         | -2.8                      | 75      | 22†   | 28     | 2†    | 36                       | 2.12  | -1.93                     | 1.36                 | T.                        | 6                            | ...   | ...        | ...                          | ...           | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 47.8                         | .....                     | 81      | 29    | 23     | 5     | 48                       | 1.61  | .....                     | 0.93                 | T.                        | 6                            | 21    | 2          | 7                            | nw.           | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | ...                     | 49.2                         | .....                     | 82      | 29    | 22     | 4     | 52                       | 1.27  | .....                     | 0.57                 | 0.1                       | 9                            | 16    | 5          | 9                            | nw.           | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 45.0                         | .....                     | 77      | 22    | 20     | 4     | 46                       | 1.15  | -2.87                     | 0.69                 | 0.6                       | 9                            | 9     | 6          | 15                           | w.            | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 49.9                         | -1.6                      | 78      | 22    | 28     | 4     | 36                       | 1.62  | -1.71                     | 0.66                 | T.                        | 10                           | 17    | 3          | 10                           | nw.           | Lehigh University.          |
| Catawissa          | Cumberland   | 467             | 66                      | 49.8                         | -2.3                      | 82      | 29    | 25     | 4     | 48                       | 1.74  | -1.70                     | 0.68                 | T.                        | 6                            | 21    | 1          | 8                            | nw.           | Prof. C. E. Miller.         |
| Center Hall        | Columbia     | 520             | 36                      | 48.2                         | -2.2                      | 82      | 21    | 25     | 4     | 47                       | 0.78  | -2.76                     | 0.45                 | 0.1                       | 4                            | 20    | 1          | 9                            | ...           | W. L. Gearhart.             |
| Chambersburg       | Center       | 1,272           | 36                      | 44.3                         | -3.9                      | 75      | 22†   | 18     | 17    | 40                       | 2.11  | -0.98                     | 0.64                 | 2.4                       | 10                           | 18    | 0          | 12                           | ...           | S. W. Smith.                |
| Clearfield         | Franklin     | 580             | 33                      | 50.4                         | +0.3                      | 81      | 21†   | 26     | 4     | 42                       | 1.71  | -1.38                     | 0.89                 | T.                        | 6                            | 14    | 7          | 9                            | nw.           | William B. Spear.           |
| Coatesville        | Clearfield   | 1,120           | 25                      | 46.8                         | -1.1                      | 84      | 22    | 20     | 13    | 56                       | 2.80  | -0.87                     | 1.10                 | 9.0                       | 13                           | 15    | 9          | 6                            | w.            | E. W. Hess.                 |
| Colebrook          | Chester      | 380             | 45                      | 48.6                         | -2.0                      | 78      | 22    | 28     | 4†    | 37                       | 1.72  | -2.05                     | 0.70                 | T.                        | 10                           | 17    | 4          | 9                            | nw.           | Howard L. Pyle.             |
| Emporium           | Lebanon      | 560             | 21                      | 46.5                         | -2.6                      | 77      | 29    | 23     | 4     | 41                       | 1.23  | -2.87                     | 0.50                 | T.                        | 5                            | 20    | 4          | 6                            | w.            | Wm. A. Korer.               |
| Ephrata            | Cameron      | 1,050           | 45                      | 44.4                         | -1.4                      | 77      | 21    | 18     | 4     | 46                       | 2.41  | -1.15                     | 0.50                 | 0.5                       | 10                           | 9     | 8          | 13                           | nw.           | T. B. Lloyd.                |
| Freeland           | Lancaster    | 380             | 40                      | 50.0                         | 0.0                       | 81      | 22†   | 28     | 4     | 45                       | 1.59  | -1.94                     | 1.15                 | T.                        | 7                            | 14    | 4          | 12                           | n.            | Ira J. Keath.               |
| George School      | Luzerne      | 1,970           | 39                      | 43.1                         | -1.2                      | 74      | 29    | 20     | 4     | 33                       | 2.20  | -2.16                     | 0.90                 | 4.0                       | 12                           | 9     | 6          | 15                           | nw.           | Theo. Reichmann.            |
| Gettysburg         | Bucks        | 190             | 26                      | 49.8                         | -0.4                      | 81      | 22    | 27     | 4†    | 46                       | 2.72  | -0.91                     | 1.44                 | T.                        | 7                            | 9     | 8          | 13                           | w.            | Prof. N. W. Swayne.         |
| Gordon             | Adams        | 553             | 59                      | 51.2                         | +0.5                      | 80      | 29    | 28     | 4     | 42                       | 1.66  | -2.00                     | 0.79                 | T.                        | 7                            | 15    | 8          | 7                            | nw.           | Dr. Henry Stewart.          |
| Gouldsboro         | Schuylkill   | 840             | 28                      | 46.8                         | -0.9                      | 78      | 23    | 20     | 4     | 48                       | 1.22  | -3.14                     | 0.31                 | 2.0                       | 9                            | 14    | 6          | 10                           | w.            | Sallie M. Johnson.          |
| Hamburg            | Wayne        | 1,875           | 17                      | 37.2                         | .....                     | 69      | 22†   | 17     | 5     | 41                       | 1.41  | -2.40                     | 0.71                 | 2.0                       | 5                            | 17    | 10         | 3                            | w.            | Gustav Holtz.               |
| Hanover            | Berks        | 535             | 39                      | 46.6                         | -3.1                      | 79      | 22    | 26     | 5†    | 42                       | 1.56  | -2.56                     | 0.84                 | T.                        | 8                            | 18    | 8          | 4                            | w.            | State Sanatorium.           |
| Harrisburg         | York         | 600             | 28                      | 51.2                         | -1.4                      | 81      | 23    | 28     | 4†    | 37                       | 1.53  | -1.99                     | 0.60                 | T.                        | 7                            | 16    | 3          | 11                           | s.            | Thomas Y. Cooper.           |
| Hawley             | Dauphin      | 361             | 63                      | 49.4                         | -1.5                      | 77      | 22    | 29     | 2     | 36                       | 1.14  | -1.55                     | 0.59                 | T.                        | 6                            | 11    | 11         | 8                            | nw.           | U. S. Weather Bureau.       |
| Holtwood           | Wayne        | 900             | 14                      | 44.0                         | -1.6                      | 77      | 22    | 18     | 5     | 48                       | 1.28  | -2.15                     | 0.31                 | 3.8                       | 6                            | 11    | 6          | 13                           | w.            | Mrs. Della M. Pennell.      |
| Huntingdon         | Lancaster    | 200             | 17                      | 51.0                         | -0.6                      | 80      | 22†   | 32     | 4     | 39                       | 1.70  | -1.23                     | 0.74                 | T.                        | 8                            | 15    | 7          | 8                            | w.            | H. W. Lowy, C. E.           |
| Hyndman            | Huntingdon   | 650             | 45                      | 48.3                         | -1.3                      | 80      | 22†   | 22     | 15    | 50                       | 1.42  | -2.02                     | 0.74                 | T.                        | 7                            | 15    | 5          | 10                           | nw.           | Prof. Paul R. Yoder.        |
| Lancaster          | Bedford      | 977             | 20                      | 49.4                         | -1.3                      | 84      | 29    | 20     | 4     | 53                       | 1.16  | -2.61                     | 0.44                 | 0.5                       | 10                           | 16    | 5          | 9                            | ...           | Horace A. Sheavly.          |
| Lawrenceville      | Lancaster    | 255             | 45                      | 46.8                         | -2.3                      | 79      | 22†   | 23     | 4     | 48                       | 1.41  | -2.08                     | 0.75                 | T.                        | 5                            | 19    | 5          | 6                            | n.            | Supt. of Water Works.       |
| Lebanon            | Tioga        | 1,000           | 35                      | 43.4                         | -2.5                      | 75      | 22    | 19     | 1†    | 46                       | 1.65  | -1.39                     | 0.45                 | T.                        | 9                            | 11    | 5          | 14                           | ...           | C. P. Darling.              |
| Lewisburg          | Lebanon      | 469             | 48                      | 48.4                         | -2.0                      | 79      | 22    | 28     | 4     | 41                       | 2.43  | -1.05                     | 1.12                 | T.                        | 10                           | 16    | 9          | 5                            | nw.           | S. B. Benzing.              |
| Lock Haven         | Union        | 450             | 56                      | 48.5                         | -0.9                      | 80      | 21†   | 27     | 5†    | 49                       | 1.41  | -2.16                     | 0.44                 | T.                        | 10                           | 14    | 7          | 9                            | w.            | Prof. W. G. Owens.          |
| Lykens             | Clinton      | 560             | 42                      | 50.2                         | -0.1                      | 81      | 22    | 23     | 4     | 45                       | 1.63  | -1.82                     | 0.50                 | T.                        | 9                            | 10    | 11         | 9                            | ne.           | Joseph Beaver.              |
| Marcus Hook        | Dauphin      | 680             | 17                      | 47.7                         | -2.3                      | 80      | 21    | 24     | 5†    | 47                       | 1.52  | -2.14                     | 0.57                 | T.                        | 10                           | 19    | 5          | 6                            | nw.           | Susquehanna Collieries Co.  |
| Mauch Chunk        | Delaware     | 50              | 5                       | 52.6                         | .....                     | 86      | 22    | 30     | 4     | 40                       | 2.73  | .....                     | 1.01                 | 0                         | 7                            | 16    | 6          | 8                            | nw.           | Sun Oil Co.                 |
| Millintown         | Carbon       | 600             | 43                      | 45.8                         | -2.8                      | 80      | 22    | 23     | 5†    | 49                       | 1.14  | -2.82                     | 0.53                 | T.                        | 6                            | 14    | 7          | 9                            | nw.           | R. K. Wintermute.           |
| Montrose           | Juniata      | 445             | 28                      | 48.3                         | -1.7                      | 80      | 22    | 25     | 4     | 45                       | 1.31  | -2.47                     | 0.53                 | 0.5                       | 8                            | 13    | 3          | 14                           | w.            | Wellington Smith.           |
| Mt. Pocono         | Susquehanna  | 1,720           | 28                      | 40.6                         | -3.4                      | 70      | 20    | 18     | 3     | 38                       | 2.15  | -1.39                     | 0.32                 | 5.0                       | 8                            | 8     | 14         | s.                           | Silas Jagger. |                             |
| Muncy Valley       | Monroe       | 1,658           | 26                      | 36.2                         | -6.3                      | 65      | 22    | 19     | 4     | 36                       | 1.52  | -2.48                     | 0.60                 | 2.5                       | 9                            | 12    | 5          | 13                           | nw.           | Cecil J. Hoskinson.         |
| Neshaminy Falls    | Sullivan     | 1,045           | 20                      | 43.9                         | -3.7                      | 77      | 22    | 23     | 4     | 44                       | 1.40  | -2.77                     | 0.49                 | 0.5                       | 6                            | 17    | 2          | 11                           | nw.           | H. O. Hacker.               |
| Palmerton          | Bucks        | 60              | 43                      | 48.9                         | -0.3                      | 80      | 22    | 25     | 4     | 45                       | 0.91  | -0.22                     | 1.20                 | T.                        | 10                           | 19    | 3          | 8                            | w.            | North Springfield Water Co. |
| Philadelphia       | Carbon       | 398             | 14                      | 46.0                         | .....                     | 76      | 22    | 24     | 5     | 43                       | 0.91  | -2.31                     | 0.58                 | T.                        | 8                            | 19    | 5          | 6                            | nw.           | New Jersey Zinc Co.         |
| Philadelphia-Gtn.  | Philadelphia | 114             | 61                      | 52.0                         | -0.1                      | 79      | 22    | 33     | 4     | 34                       | 2.37  | -0.68                     | 1.51                 | T.                        | 8                            | 8     | 12         | 10                           | nw.           | U. S. Weather Bureau.       |
| Phila. Navy Yard   | Philadelphia | 113             | 8                       | 51.4                         | .....                     | 79      | 22    | 31     | 4†    | 38                       | 2.56  | .....                     | 1.01                 | T.                        | 7                            | 13    | 10         | 7                            | ...           | Julius Bernstein.           |
| Phoenixville       | Chester      | 100             | 22                      | 52.2                         | +0.4                      | 86      | 22    | 30     | 5     | 41                       | 1.74  | -1.79                     | 1.40                 | T.                        | 5                            | 19    | 7          | 4                            | s.            | Commandant, Navy Yard.      |
| Quakertown         | Bucks        | 496             | 47                      | 48.1                         | -0.4                      | 81      | 22    | 24     | 5†    | 44                       | 1.83  | -1.52                     | 0.88                 | T.                        | 8                            | 15    | 7          | 8                            | nw.           | North Springfield Water Co. |
| Reading            | Berks        | 325             | 60                      | 49.0                         | -1.3                      | 80      | 22    | 30     | 4     | 34                       | 1.26  | -2.01                     | 0.85                 | T.                        | 8                            | 7     | 14         | 9                            | nw.           | John E. Benner.             |
| Scranton           | Lackawanna   | 805             | 38                      | 44.9                         | -3.2                      | 76      | 22    | 26     | 4     | 38                       | 0.59  | -2.18                     | 0.19                 | 1.5                       | 8                            | 5     | 12         | 13                           | nw.           | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 47.2                         | -2.4                      | 79      | 22    | 25     | 4     | 47                       | 1.49  | -2.11                     | 0.48                 | T.                        | 8                            | 15    | 8          | 7                            | w.            | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 36                      | 50.6                         | -1.6                      | 78      | 22†   | 29     | 5     | 36                       | 2.49  | -0.81                     | 1.36                 | T.                        | 8                            | 12    | 11         | 7                            | nw.           | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 45.2                         | -2.3                      | 76      | 22    | 21     | 4     | 41                       | 1.65  | -1.75                     | 1.04                 | 0.2                       | 8                            | 13    | 6          | 11                           | w.            | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 45.4                         | -3.0                      | 76      | 22    | 20     | 5     | 47                       | 0.86  | -3.20                     | 0.43                 | 0.1                       | 5                            | 16    | 2          | 12                           | nw.           | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 44.2                         | -2.2                      | 74      | 22    | 22     | 4     | 43                       | 0.97  | -2.03                     | 0.30                 | 0.6                       | 10                           | 6     | 10         | 14                           | w.            | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 42.5                         | -2.1                      | 76      | 22†   | 20     | 4     | 50                       | 1.40  | -2.08                     | 0.40                 | 1.5                       | 9                            | 15    | 3          | 12                           | w.            | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 50.2                         | +0.4                      | 76      | 22    | 29     | 4     | 31                       | 1.65  | -2.14                     | 0.75                 | 0                         | 6                            | 18    | 6          | 6                            | w.            | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 48.0                         | -0.9                      | 80      | 22    | 26     | 4     | 46                       | 1.97  | -1.51                     | 0.52                 | T.                        | 6                            | 12    | 5          | 13                           | w.            | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 49.4                         | -1.5                      | 82      | 29    | 25     | 15    | 48                       | 1.14  | -2.02                     | 0.48                 | 0                         | 8                            | 17    | 7          | 6                            | w.            | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |               |                             |
| Beaver Dam         | Beaver       | 700             | 40                      | 47.8                         | -2.1                      | 76      | 22    | 23     | 4     | 41                       | 2.16  | -0.92                     | 0.75                 | .....                     | 10                           | 11    | 8          | 11                           | sw.           | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....         | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 42.6                         | -2.5                      | 80      | 22    | 16     | 5     | 50                       | 2.31  | -0.59                     | 0.48                 | 2.0                       | 10                           | 20    | 2          | 8                            | ...           | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 45.9                         | .....                     | 81      | 22    | 18     | 3     | 47                       | 1.58  | -1.86                     | 0.60                 | 3.0                       | 7                            | 15    | 4          | 11                           | w.            | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 2                       | 46.9                         | -2.8                      | 80      | 21    | 19     | 4     | 48                       | 1.94  | -2.62                     | 0.49                 | 2.1                       | 10                           | 17    | 0          | 13                           | nw.           | John E. Lewis.              |
| Clarion            | Allegheny    | 1,020           | ...                     | 47.4                         | .....                     | 75      | 21†   | 23     | 4     | 40                       | 0.79  | .....                     | 0.26                 | 0.2                       | 7                            |       |            |                              |               |                             |



Daily Precipitation for April, 1932

| Stations           | Drainage Basin | Day of month |     |     |     |     |      |   |     |     |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | Total |      |
|--------------------|----------------|--------------|-----|-----|-----|-----|------|---|-----|-----|------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6    | 7 | 8   | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |     |     |     |     |      |   |     |     |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |       |      |
| Allentown          | Lehigh         | 1.00         | .01 |     |     |     |      |   |     | .08 | .58  | .39 | .05 | T.  |     |     |     |    |    |    |    |    |    |    |    |     |     | .04 | .06 |     |     |      | 2.22  |      |
| Altoona            | Juniata        |              | .03 |     |     | .05 | .07  |   |     | .56 | .26  | .28 | .22 | .08 |     |     |     |    |    |    |    |    |    |    |    |     | .18 | T.  | .02 |     | .04 |      | 1.79  |      |
| Ansonia            | W. Br. Susq.   | .47          | .07 |     |     |     |      |   |     | .39 | .36  | .24 | .23 | .02 | T.  |     |     |    |    |    |    |    |    |    |    | .03 | .04 | .13 | .01 | T.  |     |      | 1.96  |      |
| Ardmore            | Lower Del.     |              |     |     |     |     |      |   |     | .26 | 1.36 | .24 |     |     |     |     |     |    |    |    |    |    |    |    |    |     | .10 | .13 |     |     |     |      | 2.12  |      |
| Arendtsville       | Lower Susq.    |              |     |     |     | T.  |      |   |     | .38 | .93  | .22 | .01 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .05 | .02 |     |     |     |      | 1.61  |      |
| Baker's Summit     | Juniata        |              | .06 |     |     | .01 |      |   |     | .65 | .20  | .15 | .04 |     |     |     |     |    |    |    |    |    |    |    |    |     | .18 |     |     |     | .06 |      | 1.85  |      |
| Bedford            | Juniata        |              | .03 |     |     | .01 |      |   | T.  | .57 | .30  | .08 | .03 | .01 |     |     |     |    |    |    |    |    |    |    |    |     | .17 | T.  | T.  |     | .07 |      | 1.27  |      |
| Bellefonte         | W. Br. Susq.   | .03          | .07 |     |     | T.  |      |   | .02 | .69 | .09  | .16 | .04 |     | T.  |     |     |    |    |    |    |    |    |    |    |     | .02 | T.  | T.  |     | .03 |      | 1.15  |      |
| Bethlehem          | Lehigh         | .53          | T.  |     |     | .01 |      |   | .02 | .11 | .66  | .09 | .04 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .02 | .02 | .02 |     |     |      | 1.52  |      |
| Blossville         | Lower Susq.    | .06          |     |     |     | .05 |      |   |     | .50 | .55  | .22 |     |     |     |     |     |    |    |    |    |    |    |    |    |     | .10 |     |     |     |     |      | 1.48  |      |
| Buffalo Mills      | Juniata        | .25          | .08 |     |     |     |      |   |     | .35 | .50  | .10 | .05 | .08 |     |     |     |    |    |    |    |    |    |    |    |     |     | .18 |     |     |     |      | 1.59  |      |
| Carlisle           | Lower Susq.    |              | .07 |     |     | .07 |      |   | T.  | .58 | .68  | .22 | T.  |     |     |     |     |    |    |    |    |    |    |    |    |     | .12 |     | T.  |     |     |      | 1.74  |      |
| Catawissa          | N. Br. Susq.   |              | .02 |     |     |     |      |   |     | .20 | .45  | .11 | T.  | T.  |     |     |     |    |    |    |    |    |    |    |    |     | T.  | T.  | T.  |     |     |      | 0.78  |      |
| Center Hall        | Susquehanna    | .02          |     |     |     |     |      |   | .08 | .64 | .43  | .36 | .02 | .30 |     |     |     |    |    |    |    |    |    |    |    |     | .02 |     | .12 |     |     | .12  | 2.11  |      |
| Chambersburg       | Potomac        | T.           | .03 |     |     |     |      |   |     | .89 | .48  | .17 |     |     |     |     |     |    |    |    |    |    |    |    |    |     | .10 | .04 | T.  |     |     |      | 1.71  |      |
| Clearfield         | W. Br. Susq.   |              | .04 | .05 |     |     |      |   |     | .18 | 1.10 | .10 | .10 | .45 | .05 | .11 | .11 |    |    |    |    |    |    |    |    |     | .30 | T.  | .05 |     |     | .16  | 2.80  |      |
| Coatesville        | Lower Del.     | .15          | .07 |     |     |     |      |   |     | .02 | .38  | .70 | .09 | .02 | .01 |     |     |    |    |    |    |    |    |    |    |     | .13 | .15 | T.  |     |     |      | 1.72  |      |
| Colebrook          | Lower Susq.    | T.           | T.  |     |     | T.  |      |   |     | T.  | .36  | .50 | .13 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .20 | .04 | T.  |     |     | T.   | 1.23  |      |
| Conshohocken       | Schuylkill     |              | .04 |     |     |     |      |   | T.  | T.  | 1.45 | .06 | .11 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .03 | .52 |     |     |     |      | 2.21  |      |
| Cresson            | Juniata        |              |     |     |     |     |      |   |     | .22 | .21  | .18 | .08 | .04 |     |     |     |    |    |    |    |    |    |    |    |     | .12 | .05 |     |     | .20 |      | 1.10  |      |
| Doylestown         | Lower Del.     | .39          | T.  |     |     | T.  |      |   | T.  | .19 | 1.32 | .04 | T.  | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .03 | .12 | .15 |     |     |      | 2.24  |      |
| Emporium           | W. Br. Susq.   | T.           | .13 |     |     | T.  |      |   | .49 | .50 | .12  | .13 | .15 | .05 | T.  |     |     |    |    |    |    |    |    |    |    |     | .42 | .18 | T.  |     | .24 |      | 2.41  |      |
| Ephrata            | Lower Susq.    | .08          | .01 |     |     |     |      |   |     | .10 | 1.15 | .12 | T.  | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .09 | .04 | T.  |     |     |      | 1.59  |      |
| Forest City        | N. Br. Susq.   |              |     |     |     |     |      |   |     | .25 | .12  |     |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     | .04 | .07 | T.  | .10 |      | 0.58  |      |
| Freeland           | Lehigh         | .90          | .04 |     | T.  |     | .02  |   |     | .20 | .38  | .24 | .06 | .19 | .03 |     |     |    |    |    |    |    |    |    |    |     |     | .05 | .07 | .02 |     |      | 2.20  |      |
| Gaileton           | W. Br. Susq.   |              | .13 | .10 |     |     |      |   | .22 | .25 | .30  | .40 | .06 | .06 |     |     |     | T. |    |    |    |    |    |    |    |     | .23 | .08 | .04 |     |     | .21  | 2.08  |      |
| George School      | Lower Del.     | .35          |     |     |     |     |      |   |     | .04 | 1.44 | .07 | .39 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | T.  | .29 | .14 |     |     |      | 2.72  |      |
| Gettysburg         | Potomac        | .01          | .03 |     |     | T.  |      |   |     | .79 | .59  | .20 |     |     |     |     |     |    |    |    |    |    |    |    |    |     | .03 | .01 |     |     | T.  |      | 1.66  |      |
| Girardville        | Lower Susq.    |              | .02 |     |     | T.  |      |   | .33 | .53 |      | .07 | .11 |     |     |     |     |    |    |    |    |    |    |    |    |     | .14 | T.  |     |     |     |      | 1.20  |      |
| Gordon             | Lower Susq.    | .25          |     |     |     |     |      |   | T.  | .22 | .31  | .28 | .04 | .06 |     |     |     |    |    |    |    |    |    |    |    |     |     | .02 | T.  |     | .02 |      | 1.22  |      |
| Gouldsboro         | Lehigh         |              |     |     |     |     |      |   |     | .52 | .19  |     |     | .09 |     |     |     |    |    |    |    |    |    |    |    | .51 |     |     |     | .10 |     |      | 1.41  |      |
| Graterford         | Schuylkill     | .28          |     |     |     |     |      |   |     | .04 | 1.53 | .07 | .02 |     |     |     |     |    |    |    |    |    |    |    |    |     | .11 | .18 |     |     |     |      | 2.23  |      |
| Hamburg            | Schuylkill     | .23          | .02 |     |     |     |      |   |     | .16 | .84  | .20 | .02 |     |     |     |     |    |    |    |    |    |    |    |    |     | .03 | .06 |     |     |     |      | 1.56  |      |
| Hanover            | Lower Susq.    | .06          | .06 |     |     | T.  |      |   |     | .59 | .60  | .16 | T.  |     |     |     |     |    |    |    |    |    |    |    |    |     | .05 | .01 | T.  |     |     |      | 1.53  |      |
| Harrisburg         | Lower Susq.    | T.           | .02 |     |     | T.  |      |   | .01 | .58 | .21  | .19 | T.  | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .13 | T.  | T.  |     |     |      | 1.14  |      |
| Hawley             | Upper Del.     | .30          |     |     |     |     |      |   | .16 |     | .31  | .17 | .17 | T.  |     | T.  | T.  |    |    |    |    |    |    |    |    |     | T.  |     |     | .17 |     | T.   | 1.28  |      |
| Hollisterville     | Upper Del.     | .76          |     |     |     |     |      |   |     | .13 | .33  | .30 | .07 | .04 |     | T.  |     |    |    |    |    |    |    |    |    |     |     |     | .03 | .12 |     |      | 1.78  |      |
| Holtwood           | Lower Susq.    | .33          | .08 |     |     |     |      |   |     | .15 | .74  | .30 | .03 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .03 | .04 |     |     |     |      | 1.70  |      |
| Huntingdon         | Juniata        | T.           |     |     |     | .03 | .08  |   | T.  |     | .74  | .18 | .27 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .09 |     | T.  |     | .03 | T.   | 1.42  |      |
| Hyndman            | Potomac        | .02          |     |     |     |     |      |   |     | .44 | .14  | .05 | .02 | .02 |     |     |     |    |    |    |    |    |    |    |    |     | .35 | .04 | .03 |     |     | .05  | 1.16  |      |
| Kylertown          | W. B. Susq.    | .04          |     |     | .06 | T.  | T.   |   | .01 | .61 | .25  | .32 | .23 | .20 |     |     |     |    |    |    |    |    |    |    |    |     | .28 |     | .03 |     |     | .15  | 2.18  |      |
| Lakeville          | Upper Del.     | .43          | T.  |     |     |     |      |   |     | .24 | .30  | .18 | .09 | .03 | .02 | .01 |     |    |    |    |    |    |    |    |    |     |     |     | .02 | .20 |     |      | 1.52  |      |
| Lancaster          | Lower Susq.    |              | .10 |     |     |     |      |   |     | .09 | .75  | .35 |     |     |     |     |     |    |    |    |    |    |    |    |    |     | .12 |     |     |     |     |      | 1.41  |      |
| Lansford           | Lehigh         | .74          | T.  |     |     |     |      |   |     | .09 | *    | .37 | .03 | .03 | T.  |     |     |    |    |    |    |    |    |    |    |     |     | .02 | .15 |     |     |      | 1.43  |      |
| Lawrenceville      | N. Br. Susq.   | .05          | T.  | T.  |     |     |      |   | .10 | .40 | .45  | .25 | .15 | T.  | T.  |     | T.  |    |    |    |    |    |    |    |    |     | .05 | .15 | .05 |     |     | T.   | 1.65  |      |
| Lebanon            | Lower Susq.    | .03          | T.  |     |     | T.  |      |   |     | .22 | .64  | .22 | .02 | .01 | T.  |     |     |    |    |    |    |    |    |    |    |     | .09 | .05 | .03 | T.  |     | 1.12 | 2.43  |      |
| Lewisburg          | W. Br. Susq.   | .12          | .03 |     |     | T.  |      |   | .01 | .31 | .44  | .33 | .02 | T.  |     |     |     |    |    |    |    |    |    |    |    |     | .10 | .02 |     |     |     | .03  |       | 1.41 |
| Lloyd              | do.            |              |     |     |     |     |      |   |     |     |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |       |      |
| Lock Haven         | W. Br. Susq.   | .22          | .04 |     |     |     |      |   | .20 | .50 | .36  | .13 | .05 | T.  |     |     |     |    |    |    |    |    |    |    |    |     |     | .07 |     | T.  |     | .06  | 1.63  |      |
| Lykens             | Susquehanna    | .27          | .04 |     |     | .01 |      |   |     | .27 | .57  | .23 | .02 | .05 |     |     |     |    |    |    |    |    |    |    |    |     |     | .04 | .02 | T.  |     |      | 1.52  |      |
| Marous Hook        | Lower Del.     |              | .18 |     |     |     | 1.01 |   |     | .70 | .66  | .04 |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     | *   | .15 |     |     | T.   | 2.73  |      |
| Mauch Chunk        | Lehigh         | .02          | T.  |     |     |     |      |   |     | .23 | .53  | .17 | T.  | .06 |     |     |     |    |    |    |    |    |    |    |    |     |     | T.  | .13 | T.  |     |      | 1.14  |      |
| Mifflintown        | Juniata        | T.           | .02 |     |     | .02 |      |   |     | .53 | .18  | .33 | .03 | .03 |     |     |     |    |    |    |    |    |    |    |    |     |     | .17 |     |     |     | T.   | 1.31  |      |
| Montrose           | N. Br. Susq.   | T.           |     |     |     |     |      |   | .20 | .30 | .23  | .30 | .30 | .30 |     |     |     |    |    |    |    |    |    |    |    |     |     |     | .32 | .20 |     |      | 2.15  |      |
| Morris Run         | N. Br. Susq.   | .22          |     | .02 |     |     |      |   | .10 | .30 | .28  | .31 |     | .06 |     |     |     |    |    |    |    |    |    |    |    |     | .27 | .02 | .02 |     | .03 |      | 1.65  |      |
| Mount Pocono       | Upper Del.     | .09          |     |     |     |     |      |   | .10 | .30 | .10  | .0  |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |       |      |



## Daily Precipitation for April, 1932—Continued from page 18

| Stations        | Drainage Basin | Day of month |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     | Total |
|-----------------|----------------|--------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|-----|----|--------|------|-----|-----|-----|-----|-------|
|                 |                | 1            | 2   | 3   | 4  | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16 | 17 | 18  | 19 | 20 | 21 | 22 | 23 | 24  | 25 | 26     | 27   | 28  | 29  | 30  | 31  |       |
| Ohio Drainage.  |                |              |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     |       |
| Beaver Dam      | Ohio           | .40          | .03 |     |    |     |     |     | T.  | .75 | .01 | .27 | .26 | .20 | T.  |     |    |    |     |    |    |    |    |    |     |    | .04    | .15  | .05 | T.  |     |     | 2.16  |
| Beaver Falls    | Beaver         | .42          | .01 |     |    |     | T.  |     | T.  | .83 | .04 | .15 | .19 | .20 | T.  |     |    |    |     |    |    |    |    |    |     |    | .17    | .24  | .03 | T.  |     | T.  | 2.28  |
| Bradford        | Allegheny      |              |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     |       |
| Brookville      | do             | .48          |     | .15 |    |     |     |     |     | .46 | .45 | .08 | .21 | .17 | .15 |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     | 2.31  |
| Butler          | Ohio           |              |     |     | T. |     |     |     |     | .60 | .05 | .25 | .12 | .12 |     |     |    |    |     |    |    |    |    |    |     |    | .25    | .03  | T.  | .13 | .03 |     | 1.58  |
| Chambersville   | Allegheny      | .02          |     |     |    | .04 |     |     |     | .03 | .49 | .10 | .08 | .44 | .17 |     |    |    |     |    |    |    |    |    |     |    | .42    |      |     |     |     | .15 | 1.94  |
| Clairton        | Monongahela    |              |     |     |    | .03 |     |     |     | .13 | .10 | T.  | .26 | .05 | T.  |     |    |    |     |    |    |    |    |    |     |    | .16    | T.   | T.  |     |     | .06 | 0.79  |
| Claysville      | Ohio           |              | .02 |     |    |     |     |     |     | .26 | .08 | T.  | .13 | .16 | T.  |     |    |    |     |    |    |    |    |    |     |    | .42    | T.   | T.  |     |     | .13 | 1.20  |
| Clymer          | Conemaugh      | .40          |     |     |    |     |     |     | .05 | .42 | .22 |     | .32 | T.  |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     | 1.41  |
| Confluence      | Youghiogheny   | .68          | .05 | T.  |    |     |     |     |     | .13 | .04 | .10 | .26 | .42 |     |     |    |    |     |    |    |    |    |    |     |    | .08    | .05  | .15 |     |     |     | 1.96  |
| Corry           | Allegheny      |              | .10 | T.  |    | T.  |     | .40 |     | .22 | .02 | .35 | .25 | .28 | .36 |     |    | T. |     |    |    |    |    |    |     |    | .26    | .49  | .07 |     | .16 |     | 2.96  |
| Coudersport     | Allegheny      | .11          | .07 |     |    |     |     |     |     | .28 | .45 | .06 | .15 | .12 |     |     |    |    |     |    |    |    |    |    | .03 |    | .58    | .10  | .01 |     | .28 |     | 2.24  |
| Derry           | Conemaugh      |              | .04 |     |    |     |     |     |     | .09 | .16 | .10 | .26 | .12 |     |     |    |    |     |    |    |    |    |    |     |    | .28    | T.   | .07 |     | .08 |     | 1.20  |
| Donora          | Monongahela    |              |     |     |    | .04 |     |     | .02 | .06 | T.  | .32 | T.  | .05 |     |     |    |    |     |    |    |    |    |    |     |    | .14    | T.   | .01 |     | .05 |     | 0.69  |
| Ebensburg       | Conemaugh      | .19          |     |     |    | .03 |     |     |     | .40 | .14 | .02 | .35 | .40 |     |     |    |    |     |    |    |    |    |    |     |    | .04    |      | .09 |     | .05 |     | 1.71  |
| Elk Lick        | Youghiogheny   |              |     |     |    |     |     |     |     |     | .20 | .36 |     |     |     |     |    |    |     |    |    |    |    |    |     |    | .37    | .17  | .10 |     | .38 |     | 1.58  |
| Falls Creek     | Allegheny      |              | .08 |     |    |     |     |     | .16 | .62 | .21 | .10 | .16 | .22 |     |     |    |    |     |    |    |    |    |    |     |    | .27    |      | .04 |     | .18 |     | 2.04  |
| Franklin        | Allegheny      | .74          | .10 |     |    |     |     |     | .03 | .46 | .49 | .04 | .35 | .24 | .11 |     |    |    |     |    |    |    |    |    |     |    |        | .87  | .06 |     |     |     | 3.49  |
| Freeport        | do             | .53          | .03 |     |    |     | .01 |     | T.  | .24 | .14 | T.  | .23 | .05 |     |     |    |    |     |    |    |    |    |    |     |    | .28    | .30  | .03 | T.  |     |     | 1.84  |
| Greensboro      | Monongahela    | .57          | .01 |     |    |     |     |     |     | .08 | .03 | .74 | .12 | .02 |     |     |    |    |     |    |    |    |    |    |     |    | .08    | .09  | .22 |     |     |     | 1.86  |
| Greensburg      | Youghiogheny   | T.           |     |     |    | T.  |     |     |     | .20 | .19 | .17 | .24 | .12 |     |     |    |    |     |    |    |    |    |    |     |    | .29    | .01  | .07 |     | .07 |     | 1.36  |
| Greenville      | Beaver         | .09          | .05 | T.  |    |     |     |     | .36 | .20 | .33 | .10 | .20 | .20 | T.  |     |    |    |     |    |    |    |    |    |     |    | .05    | 1.66 | .02 |     | .47 |     | 3.73  |
| Grove City      | do             |              |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     |       |
| Herr's Isl. Dam | Ohio           | .42          | .03 | T.  |    |     |     |     | T.  | .25 | .02 | .07 | .20 | .08 | .02 |     |    |    |     |    |    |    |    |    |     |    | .29    | .30  | .05 | T.  |     | T.  | 1.73  |
| Ingram          | Ohio           | T.           | T.  | T.  |    | T.  |     |     | .35 | .08 | .03 | .39 | .11 | .11 |     |     |    |    |     |    |    |    |    |    |     |    | .37    | T.   | .03 |     | .11 |     | 1.58  |
| Irwin           | Monongahela    |              |     |     |    | .02 |     |     |     | .07 | .11 | .03 | .15 | .10 | .09 |     |    |    |     |    |    |    |    |    |     |    | .25    | T.   | .08 |     | .15 |     | 1.05  |
| Johnstown       | Conemaugh      | .07          |     |     |    | .08 |     |     |     | .10 | .47 | .01 | .16 | .37 | .18 |     |    |    |     |    |    |    |    |    |     |    | .22    | .06  | .06 |     | .12 |     | 1.90  |
| Kregar          | Youghiogheny   | .07          |     |     | T. | T.  |     | T.  | .03 | .02 |     | .41 | .28 | .06 |     |     |    |    |     |    |    |    |    |    |     |    | .08    | .08  | .17 |     |     |     | 1.20  |
| Lake Lynn       | Monongahela    | .68          | .02 |     |    |     |     |     |     | .06 | .01 | .12 | .32 | .10 |     |     |    |    |     |    |    |    |    |    |     |    | .08    | .07  | .06 |     |     |     | 1.52  |
| Linesville      | Beaver         | .27          | .13 | .08 |    |     |     |     |     | .23 | .38 | .08 | .26 | .47 | T.  |     |    |    | .04 |    |    |    |    |    |     |    |        | .72  | .02 |     |     |     | 2.68  |
| Lock No. 2      | Ohio           | .02          |     |     |    |     |     |     | T.  | .48 | .01 | .11 | .25 | .04 | T.  |     |    |    |     |    |    |    |    |    |     |    | .12    | .22  | .05 |     |     | T.  | 1.30  |
| Lock No. 4      | Monongahela    | .55          | .03 |     |    |     | .02 |     |     | T.  | .11 | .02 | .13 | .25 | .18 | .01 |    |    |     |    |    |    |    |    |     |    | .10    | .09  | .01 | T.  |     | T.  | 1.50  |
| Lycippus        | Conemaugh      |              |     |     |    |     |     |     |     | .21 | .09 | .17 | .31 | .01 |     |     |    |    |     |    |    |    |    |    |     |    | .17    |      | .04 |     |     |     | 1.00  |
| McKeesport      | Monongahela    | .55          |     |     |    |     |     |     | T.  | .16 | .01 | .02 | .17 | .01 | .01 |     |    |    |     |    |    |    |    |    |     |    | .10    | .14  | .05 |     |     |     | 1.22  |
| Meadville       | Allegheny      | .03          | .15 | T.  |    |     |     |     |     | .20 | .14 | .26 | .21 | .20 | .20 | .02 |    |    |     |    |    |    |    |    |     |    | .05    | .85  | .03 |     | .48 |     | 2.82  |
| Mount Lebanon   | Ohio           | T.           |     |     |    | T.  |     |     |     | .19 | .07 | .03 | .31 | .12 | .07 | T.  |    |    |     |    |    |    |    |    |     |    | .44    | T.   | .01 |     | .10 |     | 1.34  |
| Natrona         | Allegheny      | .61          | .03 |     |    |     |     |     |     | .16 | .08 | .03 | .22 | .04 | T.  |     |    |    |     |    |    |    |    |    |     |    | .10    | .20  | .03 | T.  |     |     | 1.50  |
| New Castle      | Beaver         | .06          | .06 | .03 |    |     | .01 | T.  |     | .01 | .65 | .13 | .06 | .27 | .12 | .02 |    |    | .01 |    |    |    |    |    |     |    | .33    | .15  | .05 |     | .04 |     | 2.00  |
| Newell          | Monongahela    |              |     |     |    | .03 |     |     |     | .02 | .10 |     | .15 | .21 |     |     |    |    |     |    |    |    |    |    |     |    | .20    |      | .02 |     | .03 |     | 0.76  |
| Parkers Landing | Allegheny      | .60          | .15 | .03 |    | T.  |     |     | T.  | .47 | .38 | T.  | .22 | .30 | T.  |     |    |    |     |    |    |    |    |    |     |    | T.     | .57  | T.  | T.  |     |     | 2.72  |
| Pennline        | Beaver         | .29          | .13 | T.  |    |     |     |     | .23 | .13 | .26 | .23 | .30 | .26 | .04 |     |    |    |     |    |    |    |    |    |     |    | .07    | .52  | .05 |     | .13 |     | 2.64  |
| Pittsburgh      | Ohio           | T.           | T.  |     |    | T.  |     |     |     | .17 | .10 | T.  | .24 | .09 | .06 |     |    |    |     |    |    |    |    |    | .09 |    | .31    | T.   | .02 |     | .08 |     | 1.16  |
| Punxsutawney    | Allegheny      | T.           | T.  |     |    |     |     |     |     | .46 | .67 | .06 | .24 | .10 | T.  |     |    |    | T.  |    |    |    |    |    |     |    | .38    | .04  |     |     |     |     | 1.95  |
| Ridgway         | do             | .67          | .11 | .05 |    |     |     |     |     | .36 | .37 | T.  | .17 | .06 | .02 |     |    |    |     |    |    |    |    |    |     |    | T.     | .60  | .05 |     |     |     | 2.46  |
| Saltsburg       | Conemaugh      | .53          | .02 |     |    |     |     |     |     | .14 | .22 | T.  | .28 | .20 | .01 |     |    |    |     |    |    |    |    |    |     |    |        | .11  | .15 | .04 |     |     | 1.70  |
| Sharon          | Beaver         | .35          | .04 | .01 |    | T.  |     |     |     | .47 | .22 | .05 | .14 | .09 | T.  |     |    |    |     |    |    |    |    |    |     |    | * 1.38 | T.   |     |     | .07 |     | 2.82  |
| Smethport       | Allegheny      | .59          | .11 | .02 | T. |     |     |     |     | .26 | .25 | .15 | .19 | .03 | T.  |     |    |    |     |    |    |    |    |    |     |    | .03    | .62  | .03 |     |     |     | 2.28  |
| Somerset        | Youghiogheny   | T.           | .04 |     |    | .01 |     |     |     | .10 | .06 | .13 | .11 | .14 |     |     |    |    |     |    |    |    |    |    |     |    | .13    | .01  | .04 |     | .05 |     | 0.82  |
| Springdale      | Allegheny      | .56          | .04 |     |    |     |     |     | T.  | .20 | .07 | .02 | .23 | .09 | .01 |     |    |    |     |    |    |    |    |    |     |    | .10    | .21  | .04 | T.  |     |     | 1.57  |
| Uniontown       | Monongahela    |              |     |     |    | T.  |     |     |     | .01 | .06 | T.  | .18 | .19 | .20 |     |    |    |     |    |    |    |    |    |     |    | .17    | .01  | .04 |     | .04 |     | 0.90  |
| Unity Reservoir | Youghiogheny   | T.           | .07 |     |    |     |     |     |     |     | .17 | .15 | .26 | .12 | T.  |     |    |    |     |    |    |    |    |    |     |    | .40    | T.   | .10 |     | .10 |     | 1.87  |
| Vandergrift     | Conemaugh      |              |     |     |    | .12 |     |     |     |     | .42 | .11 | .03 |     |     |     |    |    |     |    |    |    |    |    |     |    | .15    |      |     |     |     |     | 0.83  |
| Warren          | Allegheny      | .05          | .04 |     |    |     |     |     | .08 | .16 | .24 | .12 | .15 | .21 | .06 |     |    |    |     |    |    |    |    |    |     |    | .24    | 1.05 | .10 |     | .25 |     | 2.75  |
| Waynesburg      | Monongahela    |              | .09 |     |    |     |     |     |     |     | .35 | T.  | .08 |     |     |     |    |    |     |    |    |    |    |    |     |    | .16    |      | T.  |     |     |     | 0.63  |
| Westford        | Beaver         |              | .40 |     |    |     |     |     | .30 | .29 | .03 |     | .03 |     | .08 | .16 |    |    |     |    |    |    |    |    |     |    | .70    | .10  |     |     |     |     | 2.06  |
| West Newton     | Youghiogheny   | .45          |     |     |    |     | .05 |     | T.  | .12 |     | .20 | .22 | .15 | .02 |     |    |    |     |    |    |    |    |    |     |    | .09    | .05  |     |     |     |     | 1.35  |
| Lake Drainage.  |                |              |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     |       |
| Erie***         | Lake Erie      | T.           | .11 | T.  |    | .01 |     |     | .29 | .01 | .32 | .32 | .25 | .31 |     |     |    |    | T.  |    |    |    |    |    |     |    | .15    | .09  | T.  |     | .38 |     | 2.24  |
| Genesee         | do             |              |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |     |    |        |      |     |     |     |     |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah † Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                  |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|-------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a m            | 12 noon. | 8 p. m. |                         | Average                     | *Highest | Direction | Date |
| Erie.....         | 204.9                   | 401.1                    | 51                     | 72               | 70       | 71      | 9.133                   | 12.7                        | 37       | se.       | 5    |
| Harrisburg.....   | 272.9                   | 398.6                    | 68                     | 66               | 50       | 50      | 6.634                   | 9.2                         | 27       | sw.       | 30   |
| Philadelphia..... | 269.0                   | 398.6                    | 67                     | 60               | 44       | 49      | 10.292                  | 14.3                        | 42       | nw.       | 3    |
| Pittsburgh.....   | 264.8                   | 399.9                    | 66                     | 67               | 49       | 49      | 7.798                   | 10.3                        | 34       | w.        | 12   |
| Reading.....      | 255.1                   | 398.6                    | 64                     | 59               | 46       | 49      | 5.950                   | 8.3                         | 23       | w.        | 27   |
| Scranton.....     | 289.8                   | 399.9                    | 60                     | 66               | 52       | 62      | 6.108                   | 8.5                         | 26       | nw.       | 27   |



## Daily Temperatures for April, 1932

| Stations           | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |      |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Allentown.....     | Maximum | 44    | 63    | 66    | 51    | 58    | 53    | 61    | 52    | 44    | 42    | 47    | 38    | 52    | 53    | 53    | 48    | 55    | 65    | 72    | 73    | 77    | 69    | 57    | 54    | 72    | 47    | 64    | 76    | 74    | ..... | 57.6  |       |      |
|                    | Minimum | 32    | 33    | 38    | 28    | 27    | 35    | 37    | 43    | 41    | 41    | 36    | 37    | 30    | 32    | 28    | 31    | 31    | 35    | 33    | 33    | 38    | 39    | 45    | 37    | 40    | 46    | 37    | 38    | 36    | 41    | ..... | 35.9  |      |
| Altoona.....       | Maximum | 42    | 74    | 68    | 50    | 67    | 65    | 62    | 58    | 54    | 43    | 42    | 43    | 33    | 45    | 51    | 53    | 52    | 58    | 67    | 70    | 75    | 79    | 74    | 61    | 58    | 66    | 47    | 63    | 75    | 69    | ..... | 58.8  |      |
|                    | Minimum | 27    | 31    | 43    | 18    | 35    | 37    | 27    | 44    | 42    | 40    | 34    | 30    | 24    | 26    | 25    | 33    | 24    | 29    | 31    | 31    | 40    | 41    | 40    | 30    | 40    | 50    | 30    | 34    | 34    | 49    | ..... | 34.0  |      |
| Bedford.....       | Maximum | 48    | 78    | 77    | 57    | 70    | 71    | 68    | 69    | 53    | 44    | 44    | 45    | 38    | 48    | 52    | 55    | 53    | 59    | 69    | 75    | 79    | 80    | 80    | 72    | 62    | 72    | 54    | 65    | 82    | 79    | ..... | 63.3  |      |
|                    | Minimum | 30    | 34    | 44    | 22    | 33    | 38    | 28    | 47    | 43    | 42    | 36    | 33    | 27    | 32    | 24    | 27    | 27    | 32    | 28    | 28    | 40    | 37    | 37    | 36    | 45    | 60    | 32    | 39    | 30    | 49    | ..... | 35.0  |      |
| Bellefonte.....    | Maximum | 40    | 71    | 68    | 51    | 62    | 45    | 62    | 53    | 45    | 46    | 41    | 43    | 34    | 46    | 53    | 51    | 52    | 60    | 66    | 73    | 75    | 77    | 72    | 58    | 54    | 71    | 46    | 65    | 74    | 70    | ..... | 57.5  |      |
|                    | Minimum | 29    | 33    | 30    | 20    | 31    | 34    | 35    | 45    | 42    | 41    | 37    | 26    | 25    | 26    | 26    | 30    | 28    | 27    | 37    | 32    | 35    | 26    | 42    | 36    | 30    | 36    | 29    | 56    | 64    | 76    | ..... | 32.6  |      |
| Brookville.....    | Maximum | 56    | 41    | 72    | 51    | 56    | 70    | 41    | 67    | 54    | 47    | 48    | 45    | 39    | 33    | 40    | 51    | 48    | 50    | 57    | 65    | 75    | 80    | 78    | 70    | 57    | 56    | 59    | 45    | 64    | 76    | ..... | 56.4  |      |
|                    | Minimum | 28    | 28    | 37    | 27    | 16    | 29    | 28    | 35    | 42    | 43    | 42    | 38    | 24    | 25    | 21    | 17    | 22    | 24    | 23    | 22    | 25    | 30    | 29    | 29    | 25    | 38    | 32    | 30    | 28    | 27    | ..... | 28.7  |      |
| Butler.....        | Maximum | 44    | 67    | 54    | 50    | 71    | 68    | 68    | 61    | 52    | 47    | 47    | 44    | 32    | 41    | 52    | 50    | 53    | 53    | 65    | 75    | 80    | 81    | 71    | 72    | 64    | 58    | 45    | 66    | 76    | 72    | ..... | 59.3  |      |
|                    | Minimum | 28    | 38    | 18    | 30    | 38    | 30    | 35    | 51    | 45    | 42    | 40    | 26    | 24    | 26    | 20    | 26    | 25    | 27    | 26    | 29    | 36    | 36    | 34    | 32    | 35    | 43    | 30    | 32    | 29    | 45    | ..... | 32.5  |      |
| Carlisle.....      | Maximum | 55    | 71    | 70    | 55    | 64    | 61    | 61    | 60    | 51    | 44    | 44    | 43    | 38    | 55    | 59    | 57    | 54    | 65    | 65    | 72    | 77    | 81    | 81    | 70    | 58    | 77    | 67    | 71    | 82    | 76    | ..... | 62.8  |      |
|                    | Minimum | 32    | 29    | 44    | 25    | 28    | 38    | 38    | 40    | 42    | 42    | 42    | 38    | 30    | 32    | 31    | 30    | 28    | 35    | 32    | 39    | 44    | 39    | 34    | 48    | 49    | 39    | 42    | 34    | 52    | ..... | 36.9  |       |      |
| Catawissa.....     | Maximum | 54    | 67    | 65    | 55    | 63    | 54    | 64    | 55    | 47    | 48    | 49    | 45    | 38    | 50    | 56    | 57    | 58    | 62    | 63    | 77    | 82    | 81    | 71    | 61    | 56    | 76    | 64    | 67    | 78    | 79    | ..... | 61.4  |      |
|                    | Minimum | 30    | 32    | 36    | 25    | 28    | 30    | 34    | 45    | 43    | 42    | 37    | 30    | 28    | 34    | 30    | 30    | 31    | 35    | 32    | 30    | 38    | 36    | 38    | 31    | 43    | 48    | 34    | 32    | 33    | 56    | ..... | 35.0  |      |
| Chambersburg.....  | Maximum | 48    | 72    | 69    | 58    | 63    | 60    | 67    | 58    | 50    | 43    | 49    | 47    | 40    | 55    | 58    | 61    | 57    | 64    | 74    | 80    | 81    | 81    | 81    | 70    | 59    | 79    | 58    | 71    | 78    | 73    | ..... | 63.5  |      |
|                    | Minimum | 30    | 33    | 48    | 26    | 32    | 41    | 33    | 44    | 42    | 41    | 36    | 36    | 31    | 30    | 28    | 28    | 29    | 33    | 37    | 42    | 44    | 41    | 44    | 37    | 46    | 50    | 34    | 41    | 36    | 46    | ..... | 37.3  |      |
| Chambersville..... | Maximum | 42    | 71    | 74    | 54    | 72    | 67    | 67    | 65    | 55    | 47    | 50    | 50    | 32    | 44    | 51    | 53    | 53    | 57    | 65    | 77    | 80    | 78    | 76    | 58    | 62    | 65    | 61    | 62    | 78    | 70    | ..... | 60.9  |      |
|                    | Minimum | 27    | 35    | 34    | 19    | 38    | 34    | 23    | 50    | 43    | 42    | 38    | 26    | 23    | 26    | 21    | 28    | 23    | 26    | 25    | 31    | 45    | 44    | 34    | 30    | 44    | 35    | 31    | 30    | 51    | ..... | 32.9  |       |      |
| Claysville.....    | Maximum | 48    | 79    | 74    | 57    | 73    | 70    | 70    | 69    | 59    | 59    | 56    | 49    | 34    | 50    | 55    | 57    | 54    | 59    | 65    | 80    | 79    | 78    | 77    | 72    | 68    | 66    | 63    | 67    | 77    | 76    | ..... | 64.3  |      |
|                    | Minimum | 27    | 39    | 39    | 22    | 45    | 35    | 31    | 52    | 47    | 48    | 42    | 29    | 25    | 26    | 21    | 27    | 24    | 28    | 24    | 36    | 42    | 38    | 36    | 31    | 40    | 38    | 39    | 28    | 32    | 56    | ..... | 34.9  |      |
| Clearfield.....    | Maximum | 70    | 75    | 71    | 70    | 72    | 70    | 70    | 78    | 49    | 47    | 46    | 43    | 45    | 48    | 42    | 53    | 54    | 58    | 54    | 60    | 65    | 71    | 76    | 78    | 75    | 61    | 57    | 73    | 61    | ..... | 63.1  |       |      |
|                    | Minimum | 40    | 30    | 32    | 34    | 27    | 29    | 31    | 41    | 40    | 40    | 24    | 26    | 20    | 25    | 25    | 23    | 22    | 27    | 25    | 24    | 36    | 28    | 31    | 25    | 41    | 42    | 28    | 30    | 27    | 38    | ..... | 30.4  |      |
| Coatesville.....   | Maximum | 47    | 65    | 70    | 52    | 59    | 55    | 62    | 51    | 46    | 43    | 45    | 48    | 42    | 53    | 54    | 58    | 54    | 58    | 60    | 65    | 71    | 76    | 78    | 75    | 61    | 57    | 73    | 61    | 66    | 77    | ..... | 60.0  |      |
|                    | Minimum | 33    | 32    | 40    | 28    | 28    | 38    | 37    | 38    | 41    | 40    | 36    | 38    | 29    | 33    | 30    | 29    | 29    | 33    | 30    | 35    | 36    | 43    | 47    | 51    | 34    | 47    | 47    | 37    | 34    | 40    | 49    | ..... | 37.1 |
| Corry.....         | Maximum | 45    | 68    | 49    | 49    | 68    | 54    | 56    | 62    | 45    | 55    | 49    | 43    | 39    | 41    | 48    | 45    | 45    | 50    | 58    | 74    | 76    | 74    | 68    | 47    | 62    | 56    | 59    | 63    | 74    | 68    | ..... | 56.3  |      |
|                    | Minimum | 26    | 32    | 25    | 23    | 35    | 34    | 29    | 38    | 34    | 35    | 32    | 25    | 24    | 30    | 25    | 31    | 25    | 27    | 24    | 27    | 33    | 35    | 38    | 25    | 36    | 35    | 28    | 29    | 29    | 42    | ..... | 30.4  |      |
| Emporium.....      | Maximum | 42    | 70    | 68    | 52    | 68    | 58    | 65    | 56    | 49    | 51    | 46    | 42    | 36    | 38    | 48    | 45    | 49    | 65    | 65    | 71    | 77    | 75    | 67    | 55    | 53    | 62    | 45    | 63    | 73    | 71    | ..... | 57.2  |      |
|                    | Minimum | 29    | 38    | 32    | 18    | 28    | 34    | 36    | 48    | 46    | 46    | 46    | 32    | 28    | 26    | 28    | 21    | 23    | 28    | 25    | 25    | 35    | 30    | 32    | 25    | 38    | 39    | 32    | 32    | 28    | 38    | ..... | 31.6  |      |
| Erie.....          | Maximum | 42    | 65    | 38    | 47    | 66    | 42    | 62    | 59    | 43    | 52    | 46    | 36    | 35    | 38    | 44    | 42    | 48    | 45    | 56    | 60    | 64    | 71    | 53    | 43    | 53    | 40    | 45    | 57    | 65    | 64    | ..... | 50.4  |      |
|                    | Minimum | 28    | 35    | 27    | 25    | 42    | 36    | 35    | 39    | 37    | 38    | 36    | 25    | 27    | 32    | 28    | 30    | 29    | 33    | 33    | 41    | 43    | 43    | 37    | 35    | 39    | 34    | 39    | 37    | 44    | 56    | ..... | 35.2  |      |
| Franklin.....      | Maximum | 46    | 71    | 45    | 57    | 70    | 41    | 66    | 52    | 50    | 52    | 46    | 39    | 28    | 50    | 45    | 35    | 30    | 65    | 78    | 80    | 78    | 67    | 55    | 63    | 50    | 50    | 66    | 75    | 63    | ..... | 54.7  |       |      |
|                    | Minimum | 27    | 27    | 32    | 17    | 20    | 31    | 29    | 33    | 46    | 43    | 39    | 28    | 23    | 22    | 20    | 24    | 25    | 27    | 26    | 27    | 33    | 33    | 34    | 27    | 36    | 45    | 31    | 31    | 30    | 40    | ..... | 30.2  |      |
| Freeland.....      | Maximum | 38    | 58    | 58    | 43    | 58    | 47    | 60    | 53    | 44    | 42    | 41    | 42    | 32    | 43    | 46    | 48    | 43    | 49    | 58    | 68    | 71    | 73    | 66    | 54    | 48    | 68    | 51    | 61    | 74    | 67    | ..... | 53.5  |      |
|                    | Minimum | 22    | 26    | 33    | 20    | 28    | 36    | 31    | 36    | 36    | 36    | 31    | 31    | 21    | 27    | 26    | 29    | 23    | 30    | 33    | 35    | 42    | 45    | 45    | 28    | 38    | 42    | 27    | 33    | 43    | 47    | ..... | 32.7  |      |
| Genesee.....       | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                    | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Gettysburg.....    | Maximum | 55    | 70    | 71    | 65    | 63    | 61    | 60    | 60    | 53    | 46    | 44    | 46    | 44    | 55    | 57    | 60    | 57    | 63    | 68    | 72    | 77    | 78    | 79    | 74    | 58    | 78    | 67    | 68    | 80    | 75    | ..... | 63.5  |      |
|                    | Minimum | 31    | 32    | 55    | 28    | 33    | 43    | 36    | 43    | 42    | 41    | 36    | 40    | 32    | 31    | 30    | 35    | 29    | 37    | 36    | 37    | 43    | 49    | 47    | 39    | 48    | 52    | 35    | 40    | 38    | 50    | ..... | 38.9  |      |
| Greensburg.....    | Maximum | 45    | 74    | 72    | 59    | 71    | 67    | 70    | 66    | 58    | 54    | 55    | 49    | 34    | 47    | 54    | 53    | 51    | 57    | 65    | 77    | 77    | 78    | 74    | 63    | 67    | 67    | 69    | 64    | 76    | 69    | ..... | 62.1  |      |
|                    | Minimum | 29    | 38    | 35    | 21    | 44    | 38    | 29    | 53    | 46    | 43    | 42    | 28    | 25    | 29    | 26    | 30    | 27    | 30    | 28    | 33    | 47    | 46    | 41    | 35    | 42    | 40    | 31    | 34    | 36    | 53    | ..... | 36.1  |      |
| Grove City.....    | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                    | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Hamburg.....       | Maximum | 57    | 66    | 63    | 65    | 59    | 53    | 62    | 61    | 50    | 45    | 44    | 45    | 46    | 52    | 54    | 57    | 53    | 56    | 67    | 72    | 75    | 79    | 78    | 66    | 54    | 54    | 51    | 66    | 76    | 75    | ..... | 60.0  |      |
|                    | Minimum | 32    | 28    | 29    | 27    | 26    | 33    | 38    | 35    | 38    | 36    | 36    | 35    | 32    | 32    | 29    | 26    | 32    | 36    | 30    | 30    | 36    | 43    | 36    | 28    | 35    | 32    | 29    | 34    | 40    | 42    | ..... | 33.2  |      |
| Harrisburg.....    | Maximum | 44    | 72    | 66    | 52    | 59    | 53    | 58    | 55    | 45    | 44    | 42    | 45    | 38    | 52    | 54    | 56    | 54    | 62    | 68    | 72    | 76    | 77    | 76    | 60    | 55    | 74    | 50    | 67    | 76    | 72    | ..... | 59.1  |      |
|                    | Minimum | 34    | 36    | 36    | 29    | 35    | 43    | 39    | 42    | 41    | 39    | 37    | 44    | 34    | 31    | 34    | 35    | 36    | 31    | 37    | 41    | 38    | 46    | 54    | 50    | 41    | 46    | 45    | 37    | 45    | 45    | 54    | ..... | 39.7 |
| Hawley.....        | Maximum | 54    | 63    | 59    | 46    | 60    | 55    | 64    | 64    | 44    | 44    | 44    | 44    | 41    | 41    | 47    | 49    | 38    | 44    | 61    | 70    | 75    | 77    | 73    | 55    | 55    | 72    | 59    | 60    | 76    | 73    | ..... | 57.5  |      |
|                    | Minimum | 27    | 26    | 38    | 22    | 18    | 28    | 33    | 34    | 35    | 39    | 33    | 37    | 26    | 30    | 27    | 24    | 28    | 32    | 35    | 24    | 28    | 30    | 34    | 25    | 31    | 43    | 31    | 29    | 28    | 39    | ..... | 30.5  |      |
| Huntingdon.....    | Maximum | 44    | 74    | 72    | 65    | 68    | 65    | 62    | 57    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

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## GENERAL SUMMARY.

The temperature average for the month was slightly above the May normal, yet cold periods centered near the 3d and 23d, respectively, when frosts covered the greater portion of the State with severe freezing in some places. The first period was most severe in the western, and the second period in the eastern portions of the State. No extensive damage was done to field crops, but tender garden plants suffered considerably. The temperature rose sharply after the second cold period, and maxima for the month were recorded generally on the 25th or 26th. Most of the rainfall occurred during the second week, the last general rain being on the 13th. After that date there were many places that received no rain to the end of the month, while moderate showers relieved conditions over a few narrow paths. These showers were mostly in the eastern portion of the State, and apparently covered only about one-third of that territory. At the close of the month many complaints were received of a shortage of moisture in the drier regions. Fair weather was favorable for field work which made rapid progress during the last half of the month. Corn planting was nearly finished in the southern portion of the State, and first plantings were coming up. Wheat was heading during the last week, much of it on short straw. Oats made a good growth wherever the soil moisture was sufficient, while the growth was slowed up considerably in the drier regions. At the close of the month the pastures and meadows were showing a need of moisture in the greater portion of the State. Alfalfa was a single exception, and a good crop was ready for cutting. Early varieties of potatoes were looking good, but the beetles were becoming numerous in many sections, and were seriously damaging the later plantings. Orchard fruits seemed to be doing well. There were several reports that peaches made a light setting, but some ventured the opinion that such a condition would bring an improvement in quality that would more than balance the loss in quantity. The berry crop was promising with strawberries in full bloom in the southern counties. There were no severe or damaging storms during the month, and no hail of consequence occurred.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 59.8°, which is 0.4° above the normal for

May. The highest monthly mean was 65.4° at Marcus Hook, and the lowest was 52.0° at Mt. Pocono. The highest temperature recorded during the month was 98° at Lock Haven on the 25th, while the lowest, 71°, was recorded at Somerset on the 3d. The greatest daily range of temperature for the month was 59° at Clearfield on the 24th.

## PRECIPITATION.

The average precipitation for the State, based on the reports from 147 well-distributed stations, was 3.69 inches, or a deficiency of 0.21 inch under the normal. The greatest monthly total was 6.40 inches at Warren, while the least, 1.00 inch, was reported from Vandergrift. The greatest amount recorded in any 24 consecutive hours was 2.45 inches at Center Hall.

The normal snowfall for the State is a trace, but no stations reported any during the month.

## COMPARATIVE DATA FOR MAY

| Year          | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|---------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|               | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | 0.1 inch or more prec. |
| 1888.....     | 57.3        | 91      | 24     | 4.24          | 8.41     | 2.26  | .....       | .....         | .....  | 16                     |
| 1889.....     | 60.4        | 96      | 25     | 5.91          | 12.41    | 2.51  | .....       | .....         | .....  | 11                     |
| 1890.....     | 58.5        | 89      | 23     | 6.71          | 12.41    | 2.96  | 7           | 11            | 13     | 15                     |
| 1891.....     | 57.3        | 93      | 20     | 2.12          | 4.41     | 0.31  | 10          | 10            | 11     | 8                      |
| 1892.....     | 58.5        | 91      | 28     | 5.70          | 9.30     | 3.77  | 7           | 10            | 14     | 16                     |
| 1893.....     | 57.9        | 93      | 26     | 5.54          | 9.20     | 2.92  | 11          | 8             | 12     | 12                     |
| 1894.....     | 60.8        | 92      | 27     | 8.88          | 15.02    | 2.72  | 9           | 8             | 14     | 16                     |
| 1895.....     | 60.6        | 102     | 22     | 2.68          | 6.46     | 0.86  | 13          | 10            | 8      | 9                      |
| 1896.....     | 65.4        | 98      | 31     | 2.85          | 6.30     | 1.19  | 10          | 12            | 9      | 10                     |
| 1897.....     | 57.7        | 88      | 25     | 5.24          | 10.05    | 1.71  | 11          | 10            | 10     | 12                     |
| 1898.....     | 60.0        | 94      | 22     | 5.11          | 10.15    | 2.79  | 8           | 9             | 14     | 15                     |
| 1899.....     | 61.1        | 100     | 24     | 3.82          | 6.40     | 1.15  | 10          | 11            | 10     | 11                     |
| 1900.....     | 60.4        | 96      | 20     | 2.79          | 7.63     | 0.72  | 13          | 9             | 9      | 9                      |
| 1901.....     | 58.9        | 91      | 28     | 5.56          | 7.96     | 2.24  | 8           | 9             | 14     | 15                     |
| 1902.....     | 59.8        | 95      | 25     | 1.96          | 4.45     | 0.29  | 13          | 11            | 7      | 8                      |
| 1903.....     | 61.8        | 94      | 18     | 1.67          | 4.65     | 0.22  | 16          | 9             | 6      | 7                      |
| 1904.....     | 61.6        | 94      | 21     | 3.78          | 7.50     | 2.07  | 12          | 10            | 9      | 11                     |
| 1905.....     | 60.8        | 93      | 22     | 4.59          | 5.17     | 0.56  | 11          | 9             | 11     | 12                     |
| 1906.....     | 60.0        | 99      | 23     | 3.23          | 5.59     | 0.93  | 12          | 10            | 9      | 10                     |
| 1907.....     | 54.8        | 91      | 19     | 3.08          | 6.38     | 1.44  | 11          | 9             | 11     | 11                     |
| 1908.....     | 61.2        | 96      | 22     | 6.28          | 10.95    | 3.19  | 10          | 10            | 11     | 15                     |
| 1909.....     | 59.2        | 92      | 23     | 2.90          | 5.52     | 1.51  | 12          | 10            | 9      | 10                     |
| 1910.....     | 56.8        | 88      | 24     | 3.38          | 6.08     | 1.73  | 11          | 10            | 10     | 12                     |
| 1911.....     | 65.2        | 99      | 20     | 1.97          | 6.81     | 0.42  | 17          | 10            | 4      | 7                      |
| 1912.....     | 61.2        | 91      | 28     | 3.15          | 5.99     | 0.99  | 14          | 8             | 9      | 11                     |
| 1913.....     | 58.5        | 93      | 21     | 3.86          | 6.45     | 0.48  | 13          | 8             | 10     | 10                     |
| 1914.....     | 61.5        | 96      | 19     | 3.34          | 6.52     | 0.90  | 16          | 9             | 6      | 9                      |
| 1915.....     | 56.2        | 84      | 21     | 4.16          | 7.45     | 2.29  | 10          | 8             | 13     | 14                     |
| 1916.....     | 61.0        | 93      | 26     | 3.19          | 6.09     | 1.49  | 12          | 11            | 8      | 13                     |
| 1917.....     | 53.3        | 90      | 20     | 3.39          | 8.09     | 1.65  | 9           | 10            | 12     | 13                     |
| 1918.....     | 65.1        | 95      | 21     | 5.04          | 8.37     | 1.81  | 13          | 12            | 6      | 14                     |
| 1919.....     | 59.5        | 98      | 27     | 5.80          | 13.59    | 2.86  | 13          | 7             | 11     | 14                     |
| 1920.....     | 56.6        | 92      | 18     | 2.02          | 3.65     | 0.67  | 17          | 8             | 6      | 8                      |
| 1921.....     | 59.8        | 93      | 22     | 3.93          | 8.17     | 0.97  | 14          | 8             | 9      | 11                     |
| 1922.....     | 62.5        | 96      | 20     | 3.21          | 7.14     | 1.69  | 15          | 8             | 8      | 10                     |
| 1923.....     | 58.3        | 93      | 20     | 3.50          | 7.43     | 1.23  | 19          | 6             | 5      | 8                      |
| 1924.....     | 54.6        | 92      | 18     | 5.71          | 9.64     | 3.31  | 9           | 9             | 13     | 17                     |
| 1925.....     | 55.2        | 98      | 22     | 3.49          | 7.98     | 1.02  | 13          | 10            | 8      | 11                     |
| 1926.....     | 58.8        | 95      | 18     | 1.78          | 5.52     | 0.62  | 17          | 10            | 4      | 8                      |
| 1927.....     | 58.2        | 92      | 23     | 4.14          | 7.23     | 1.75  | 9           | 9             | 13     | 16                     |
| 1928.....     | 58.0        | 95      | 20     | 2.23          | 5.10     | 0.65  | 15          | 9             | 7      | 10                     |
| 1929.....     | 58.5        | 97      | 23     | 4.81          | 8.43     | 1.96  | 13          | 9             | 9      | 14                     |
| 1930.....     | 61.2        | 99      | 25     | 3.03          | 6.39     | 1.03  | 15          | 8             | 8      | 10                     |
| 1931.....     | 59.8        | 98      | 19     | 5.28          | 12.97    | 2.33  | 13          | 9             | 9      | 15                     |
| 1932.....     | 59.8        | 98      | 21     | 3.69          | 6.40     | 1.00  | 15          | 8             | 8      | 10                     |
| Normal and..  | 59.4        | .....   | .....  | 3.90          | .....    | ..... | 12          | 9             | 10     | 12                     |
| Extremes..... | .....       | 102     | 18     | .....         | 15.02    | 0.22  | .....       | .....         | .....  | .....                  |



## Climatological Data for May, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                      |                 |                 | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|----------------------|-----------------|-----------------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date                 | Lowest          | Date            | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |                      |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 20                      | 59.6                         |                           | 90              | 26                   | 38              | 19              | 46                       | 4.73  | +1.19                     | 1.77                 | 0                         | 9                            | 18    | 5          | 8                            | sw.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 58.8                         | 0.0                       | 90              | 26                   | 31              | 3               | 48                       | 2.68  | -1.26                     | 0.73                 | 0                         | 9                            | 19    | 8          | 4                            | w.        | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             |                         | 58.9                         | -1.5                      | 85              | 26 <sup>1</sup>      | 37              | 2               | 33                       | 3.93  | +0.08                     | 1.30                 | 0                         | 9                            |       |            |                              |           | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 60.4                         |                           | 92              | 16 <sup>1</sup>      | 34              | 3               | 45                       | 5.65  |                           | 1.69                 | 0                         | 8                            | 20    | 6          | 5                            | n.        | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           |                         | 56.7                         | -4.4                      | 91              | 26                   | 31              | 3               | 52                       | 3.40  |                           | 0.79                 | 0                         | 8                            | 20    | 4          | 7                            | nw.       | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 56.7                         |                           | 87              | 26                   | 28              | 23              | 47                       | 3.58  | -0.13                     | 1.04                 | 0                         | 12                           | 11    | 9          | 11                           | w.        | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 62.2                         | 0.0                       | 90              | 25                   | 40              | 3               | 34                       | 4.19  | +0.62                     | 1.44                 | 0                         | 10                           | 17    | 2          | 12                           | w.        | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 62.1                         | +0.7                      | 93              | 26                   | 33              | 23              | 49                       | 4.94  | +1.14                     | 1.58                 | 0                         | 8                            | 19    | 5          | 7                            | s.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 61.4                         | +0.9                      | 95              | 26                   | 33              | 3 <sup>1</sup>  | 50                       | 3.89  | +0.29                     | 1.20                 | 0                         | 10                           | 20    | 4          | 7                            | .....     | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 36                      | 53.6                         | -5.2                      | 84              | 26                   | 28              | 23 <sup>1</sup> | 49                       | 5.22  | +1.19                     | 2.45                 | 0                         | 12                           | 19    | 3          | 9                            | .....     | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 62.6                         | +1.5                      | 93              | 25                   | 35              | 3               | 42                       | 4.78  | +1.23                     | 1.46                 | 0                         | 10                           | 13    | 11         | 7                            | s.        | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | 59.0                         | +0.2                      | 90              | 25                   | 26              | 3               | 59                       | 3.43  | -1.05                     | 0.95                 | 0                         | 9                            | 14    | 9          | 8                            | w.        | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 45                      | 60.8                         | -0.5                      | 88              | 26                   | 40              | 3 <sup>1</sup>  | 36                       | 4.08  | +0.14                     | 1.27                 | 0                         | 9                            | 21    | 3          | 7                            | sw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 59.3                         | +0.3                      | 88              | 26 <sup>1</sup>      | 32              | 23              | 41                       | 4.00  | +0.79                     | 1.67                 | 0                         | 15                           | 20    | 4          | 7                            | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 57.8                         | 0.0                       | 85              | 16 <sup>1</sup>      | 26              | 3               | 48                       | 5.66  | +1.27                     | 1.81                 | 0                         | 11                           | 9     | 13         | 9                            | sw.       | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 63.4                         | +2.4                      | 94              | 26                   | 38              | 23              | 42                       | 3.62  | +0.23                     | 1.95                 | 0                         | 9                            | 14    | 8          | 9                            | ne.       | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 57.9                         | +1.7                      | 88              | 25                   | 31              | 3               | 35                       | 3.74  | -0.64                     | 1.31                 | 0                         | 9                            | 10    | 10         | 11                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 61.0                         | +0.5                      | 88              | 25                   | 36              | 3               | 37                       | 2.86  | -0.65                     | 0.76                 | 0                         | 9                            | 18    | 5          | 8                            | sw.       | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 59                      | 63.0                         | +1.7                      | 90              | 25 <sup>1</sup>      | 37              | 3               | 37                       | 6.25  | +2.36                     | 1.69                 | 0                         | 11                           | 14    | 11         | 6                            | s.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 28                      | 59.2                         | +1.4                      | 89              | 26                   | 28              | 23              | 49                       | 4.66  | +0.80                     | 1.50                 | 0                         | 11                           | 18    | 6          | 7                            | w.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 52.8                         |                           | 88              | 26                   | 31              | 23 <sup>1</sup> | 49                       | 5.34  | +1.17                     | 1.78                 | 0                         | 6                            | 20    | 8          | 3                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 39                      | 59.1                         | -1.8                      | 89              | 24 <sup>1</sup>      | 35              | 3 <sup>1</sup>  | 43                       | 4.76  | +0.35                     | 1.43                 | 0                         | 9                            | 15    | 10         | 6                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 64.0                         | +1.2                      | 91              | 25 <sup>1</sup>      | 39              | 3               | 34                       | 5.91  | +2.67                     | 1.69                 | 0                         | 10                           | 18    | 5          | 8                            | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 61.9                         | +0.1                      | 89              | 26                   | 41              | 11              | 37                       | 3.87  | +0.43                     | 1.53                 | 0                         | 11                           | 11    | 11         | 9                            | ne.       | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 57.9                         | +1.1                      | 91              | 25                   | 30              | 3               | 49                       | 5.40  | +1.87                     | 2.04                 | 0                         | 10                           | 15    | 6          | 10                           | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 64.6                         | +2.8                      | 91              | 27                   | 46              | 3 <sup>1</sup>  | 34                       | 3.41  | +0.53                     | 0.75                 | 0                         | 8                            | 17    | 7          | 7                            | .....     | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 60.1                         | -0.1                      | 92 <sup>b</sup> | 25 <sup>1</sup>      | 30 <sup>b</sup> | 3 <sup>1</sup>  | 51 <sup>b</sup>          | 3.19  | -0.95                     | 1.06                 | 0                         | 8                            | 14    | 12         | 5                            | sw.       | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 62.6                         | +1.8                      | 95              | 26                   | 30              | 3               | 53                       | 4.03  | +1.18                     | 1.16                 | 0                         | 8                            | 18    | 4          | 9                            | .....     | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 60.0                         | -0.7                      | 94              | 27                   | 32              | 23              | 42                       | 3.99  | +0.76                     | 1.60                 | 0                         | 7                            | 19    | 8          | 4                            | nw.       | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 57.6                         | +0.7                      | 90              | 25                   | 26              | 3               | 49                       | 5.34  | +1.76                     | 1.65                 | 0                         | 10                           | 13    | 10         | 8                            | .....     | C. F. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 60.6                         | -0.2                      | 91              | 26                   | 38              | 23              | 39                       | 2.96  | -0.90                     | 0.63                 | 0                         | 12                           | 16    | 10         | 5                            | w.        | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 56                      | 61.8                         | +1.9                      | 94              | 26                   | 33              | 3 <sup>1</sup>  | 48                       | 4.07  | +0.31                     | 1.29                 | 0                         | 11                           | 12    | 10         | 9                            | s.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 63.2                         | +1.6                      | 98              | 25                   | 33              | 3               | 52                       | 5.64  | +1.75                     | 1.44                 | 0                         | 13                           | 11    | 14         | 6                            | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 61.3                         | +2.1                      | 96              | 26                   | 30              | 19 <sup>1</sup> | 51                       | 3.74  | -0.13                     | 1.21                 | 0                         | 13                           | 18    | 9          | 4                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 65.4 <sup>1</sup>            |                           | 90 <sup>1</sup> | 5                    | 31 <sup>1</sup> | 6               | 52 <sup>1</sup>          | 3.23  |                           | 1.87                 | 0                         | 5                            | 25    | 2          | 4                            | w.        | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 59.2                         | -0.5                      | 89              | 27                   | 35              | 19 <sup>1</sup> | 45                       | 4.07  | +0.06                     | 1.56                 | 0                         | 8                            | 16    | 5          | 10                           | s.        | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 28                      | 61.2                         | +1.1                      | 90              | 26                   | 31              | 23              | 51                       | 3.98  | +0.22                     | 0.92                 | 0                         | 11                           | 15    | 3          | 13                           | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 28                      | 54.8                         | +0.3                      | 85              | 25                   | 27              | 8               | 40                       | 5.08  | +1.21                     | 1.35                 | 0                         | 9                            | 13    | 7          | 11                           | w.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 52.0                         | -1.9                      | 84              | 17                   | 25              | 8               | 36                       | 1.71  | -2.28                     | 0.65                 | 0                         | 7                            | 14    | 7          | 10                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 56.8                         | -0.1                      | 88              | 26                   | 28              | 3               | 45                       | 4.50  | +0.14                     | 1.50                 | 0                         | 12                           | 20    | 5          | 6                            | sw.       | H. O. Hacker.               |
| Neshaminy Falls II | Bucks        | 60              | 43                      | 60.2                         | +0.8                      | 89              | 27                   | 38              | 2 <sup>1</sup>  | 35                       | 2.57  | -1.06                     | 0.81                 | 0                         | 10                           | 21    | 7          | 3                            | w.        | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 398             | 14                      | 59.2                         |                           | 90              | 26                   | 34              | 23              | 42                       | 4.03  | +0.18                     | 1.93                 | 0                         | 7                            | 19    | 4          | 8                            | sw.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 63.4                         | +0.5                      | 87              | 26                   | 44              | 3               | 27                       | 3.81  | +0.55                     | 1.17                 | 0                         | 9                            | 7     | 17         | 7                            | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn   | Philadelphia | 113             | 8                       | 63.8                         |                           | 90              | 27                   | 42              | 3               | 30                       | 3.41  |                           | 1.13                 | 0                         | 9                            | 10    | 16         | 5                            | .....     | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 61.5                         | -0.4                      | 85              | 26 <sup>1</sup>      | 43              | 3               | 26                       | 3.95  | +0.74                     | 1.25                 | 0                         | 8                            | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 22                      | 63.2                         | +2.0                      | 89              | 27                   | 40              | 3 <sup>1</sup>  | 38                       | 3.35  | -0.61                     | 1.18                 | 0                         | 9                            | 18    | 9          | 4                            | s.        | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 59.8                         | +0.4                      | 90              | 26                   | 33              | 3 <sup>1</sup>  | 44                       | 4.73  | +0.76                     | 1.55                 | 0                         | 11                           | 16    | 7          | 8                            | n.        | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 61.7                         | -0.8                      | 90              | 26                   | 41              | 3               | 32                       | 4.94  | +1.27                     | 1.84                 | 0                         | 9                            | 12    | 9          | 10                           | sw.       | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 59.2                         | -0.2                      | 90              | 25                   | 35              | 3               | 39                       | 2.73  | -0.54                     | 1.07                 | 0                         | 8                            | 7     | 16         | 8                            | sw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 61.1                         | +0.6                      | 90              | 25 <sup>1</sup>      | 33              | 24              | 48                       | 4.28  | +0.29                     | 0.79                 | 0                         | 12                           | 12    | 13         | 6                            | w.        | Dr. George E. Fisher.       |
| Shawmont II        | Philadelphia | 51              | 36                      | 62.8                         | +0.2                      | 88              | 26                   | 41              | 4 <sup>1</sup>  | 35                       | 3.26  | -0.06                     | 1.13                 | 0                         | 10                           | 13    | 13         | 5                            | s.        | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 58.2                         | -0.4                      | 89              | 26                   | 31              | 8               | 41                       | 3.58  | -0.36                     | 0.72                 | 0                         | 9                            | 16    | 10         | 5                            | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 58.8                         | -0.5                      | 89              | 25 <sup>1</sup>      | 32              | 19              | 44                       | 3.44  | -0.05                     | 1.70                 | 0                         | 8                            | 14    | 5          | 12                           | sw.       | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 57.0                         | -0.3                      | 89              | 25                   | 30              | 19              | 47                       | 5.32  | +2.13                     | 1.54                 | 0                         | 15                           | 6     | 16         | 9                            | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 56.2                         | -0.1                      | 90              | 25                   | 26              | 3               | 54                       | 3.64  | -0.22                     | 0.90                 | 0                         | 10                           | 16    | 4          | 11                           | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 61.2                         | +0.6                      | 85              | 26                   | 39              | 3               | 29                       | 4.26  | -0.06                     | 1.46                 | 0                         | 8                            | 18    | 7          | 6                            | w.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 61.2                         | +0.8                      | 91              | 25                   | 34              | 19 <sup>1</sup> | 46                       | 4.58  | +1.17                     | 0.81                 | 0                         | 11                           | 12    | 11         | 8                            | e.        | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 62.7                         | +1.6                      | 93              | 16 <sup>1</sup>      | 31              | 3               | 44                       | 5.75  | +2.44                     | 2.13                 | 0                         | 10                           | 16    | 9          | 6                            | s.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |                      |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam II      | Beaver       | 700             | 40                      | 60.5                         | +0.2                      | 87              | 25 <sup>1</sup>      | 29              | 3               | 44                       | 2.90  | -0.35                     | 0.70                 | 0                         | 14                           | 8     | 14         | 9                            | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | 56.0                         | +1.0                      | 86              | 15 <sup>1</sup>      | 22              | 3               | 56                       | 4.26  | +0.61                     | 1.37                 | 0                         | 10                           | 12    | 7          | 12                           | nw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 54.4 <sup>a</sup>            | -0.9                      | 88 <sup>a</sup> | 27                   | 23 <sup>a</sup> | 4               | 53 <sup>a</sup>          | 2.42  | -1.17                     | 0.48                 | 0                         | 7                            | 22    | 1          | 8                            | .....     | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 58.4                         |                           | 87              | 16 <sup>1&lt;/</sup> |                 |                 |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



## Daily Precipitation for May, 1932

| Stations           | Drainage Basin | Day of month |      |    |     |     |     |      |      |      |      |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | Total |
|--------------------|----------------|--------------|------|----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|----|----|----|----|----|-----|-----|----|----|----|-----|------|-----|------|------|----|-------|
|                    |                | 1            | 2    | 3  | 4   | 5   | 6   | 7    | 8    | 9    | 10   | 11   | 12   | 13  | 14  | 15  | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23 | 24 | 25 | 26  | 27   | 28  | 29   | 30   | 31 |       |
| Atlantic Drainage. |                |              |      |    |     |     |     |      |      |      |      |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    |       |
| Allentown          | Lehigh         | .33          | 1.44 |    |     |     | T.  | .34  | .08  | .50  |      |      | .22  | .34 |     |     |    |    |    |    |    |     | .03 |    |    |    |     |      |     |      |      |    | 4.73  |
| Altoona            | Juniata        | .38          |      |    |     | .15 | .03 |      | .18  | .48  | .73  | .43  | .10  | .20 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 2.68  |
| Ansonia            | W. Br. Susq.   | .13          | .13  |    |     |     |     | .22  | .64  | .24  | .47  | .82  | .08  |     |     | .58 |    |    |    |    |    |     |     |    |    |    |     | .11  | .12 | T.   |      |    | 3.54  |
| Ardmore            | Lower Del.     | 1.30         | .01  |    |     | .08 | .09 |      | .10  |      |      | .52  | 1.25 |     |     |     |    |    |    |    |    | .21 |     |    |    |    |     |      |     |      |      |    | 3.93  |
| Arendtsville       | Lower Susq.    | .69          |      |    |     | .14 |     |      | .85  | .02  | 1.47 | .22  | 1.08 |     |     |     |    |    |    |    |    |     | .18 |    |    |    |     |      |     |      |      |    | 5.65  |
| Baker's Summit     | Juniata        | .63          |      |    |     | .16 | .25 |      | .24  | .21  | .88  | .65  | .21  | .18 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.41  |
| Bedford            | Juniata        | .56          |      |    |     | .11 | .10 |      |      | .58  | .79  | .67  | .40  | .19 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.40  |
| Bellefonte         | W. Br. Susq.   | .65          |      |    |     | T.  | .03 | .22  | .06  | .41  | .24  | .83  | .74  | .02 | .09 | .09 |    | T. |    |    |    | T.  |     |    |    |    |     | T.   |     |      |      |    | 3.58  |
| Bethlehem          | Lehigh         | 1.44         | .29  |    |     |     |     | T.   | .36  | .17  | .31  | T.   | .02  | .17 | .25 |     |    |    |    |    |    |     | T.  |    |    |    |     | 1.08 | .10 |      |      |    | 4.19  |
| Blossville         | Lower Susq.    | 1.15         |      |    |     | .10 |     |      | T.   |      | .92  | 1.60 | .30  | .75 | T.  |     |    |    |    |    |    | T.  |     |    |    |    |     |      |     |      |      |    | 5.00  |
| Blossville         | Lower Susq.    | .60          |      |    |     |     | .08 |      |      | .54  | .95  | .68  | .25  | .61 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.71  |
| Buffalo Mills      | Juniata        | 1.58         |      |    |     | .09 | .30 | T.   | T.   | .10  | .53  | 1.58 | .23  | .53 |     |     |    |    |    |    |    |     |     |    |    |    | T.  |      |     |      |      |    | 4.94  |
| Carlisle           | Lower Susq.    |              |      |    |     |     |     |      |      |      |      |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    |       |
| Catawissa          | N. Br. Susq.   | .93          |      |    |     |     | .36 | .03  | 1.20 | .06  | .14  | .80  | .03  |     | .30 |     | T. |    |    |    |    |     |     |    |    |    |     | T.   | .04 |      |      |    | 3.89  |
| Center Hall        | Susquehanna    | .14          |      |    |     | .24 |     | .65  | .44  | 2.45 | .62  | .10  | .11  | .20 |     |     |    |    |    |    |    |     | .01 |    |    |    |     |      | .12 | .03  |      |    | 5.22  |
| Chambersburg       | Potomac        | 1.46         |      |    |     | .02 | .14 |      | .52  | .79  | .85  | .31  | .40  |     |     |     |    |    |    |    |    |     |     |    |    |    | .20 |      | T.  | .09  |      |    | 4.78  |
| Clearfield         | W. Br. Susq.   | .22          |      |    |     | .08 | .11 | .40  | .42  | .60  | .95  | .55  | .10  |     | T.  |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.43  |
| Coatesville        | Lower Del.     | 1.27         |      |    |     | T.  | .20 |      | .05  | .07  |      | .40  | .90  | .31 |     |     |    |    |    |    |    |     | .40 |    |    |    |     |      | .48 |      |      |    | 4.08  |
| Colebrook          | Lower Susq.    | 1.67         | .02  |    | T.  | .02 | .13 |      | .01  | .03  | .20  | .08  | .61  | .33 | .30 | .02 |    |    |    |    |    |     | .29 |    |    |    |     |      | .23 | .06  |      |    | 4.00  |
| Conshohocken       | Schuylkill     | 1.01         |      |    |     |     |     | T.   | T.   | .09  |      | .21  | 1.14 | .10 |     |     |    |    |    |    |    |     | .18 |    |    |    |     |      | .08 | .90  |      |    | 3.71  |
| Cresson            | Juniata        | .35          |      |    |     |     | .06 | .25  | .24  | .34  |      | .51  | .20  |     |     |     |    |    |    |    |    |     | .26 |    |    |    |     |      | .78 |      |      |    | 4.15  |
| Doylestown         | Lower Del.     | 1.15         |      |    |     |     | .02 | .28  | .41  | 1.81 | 1.38 | .42  | .51  | .20 |     |     |    |    |    |    |    |     |     |    |    |    | .51 | .06  | T.  |      |      |    | 5.66  |
| Emporium           | W. Br. Susq.   | .06          |      |    |     |     | .17 |      | .05  | .10  |      | .34  | .34  | .48 | T.  |     |    |    |    |    |    |     | .14 |    |    |    |     |      |     |      |      |    | 3.62  |
| Ephrata            | Lower Susq.    | 1.95         | .05  |    |     |     |     |      |      |      |      |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      | .33 | 1.06 |      |    | 4.51  |
| Forest City        | N. Br. Susq.   | .24          | .60  |    |     |     |     | .81  | 1.01 | .35  |      |      | .11  |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.74  |
| Freeland           | Lehigh         | .83          | .48  |    |     |     | .23 | .25  | .32  | .03  | T.   | .27  | .21  |     | T.  |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.64  |
| Galeton            | W. Br. Susq.   | .05          |      |    |     | .14 | .45 | 1.19 | .13  | .52  | .45  | .02  |      | .23 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 2.86  |
| George School      | Lower Del.     | .76          |      |    |     | .03 | .19 | .11  | .25  |      | T.   | .37  | .56  |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      | .01 |      |      |    | 6.25  |
| Gettysburg         | Potomac        | 1.69         | .06  |    |     | T.  | .14 |      | .87  | .22  | 1.61 | .90  | .64  |     |     |     |    |    |    |    |    |     | .09 |    |    |    |     |      |     |      |      |    | 4.41  |
| Girardville        | Lower Susq.    | 1.32         |      |    |     | .01 | .63 | 1.32 |      | .07  | .57  | .05  |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 4.66  |
| Gordon             | Lower Susq.    | 1.15         |      |    |     | .07 | .67 | 1.50 | .01  | .05  | .65  |      |      | .11 | .02 | .10 |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 5.34  |
| Gouldsboro         | Lehigh         | .76          |      |    |     |     | .30 | 1.78 |      |      | .60  | .38  |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.73  |
| Graterford         | Schuylkill     | 1.08         | .24  |    |     | .12 |     | .36  | .42  |      | .06  | .63  | .32  |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 4.76  |
| Hamburg            | Schuylkill     | 1.43         |      |    |     | .08 |     | .70  | 1.12 |      | .40  | .09  | .39  |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 5.91  |
| Hanover            | Lower Susq.    | 1.69         | .06  |    |     | .13 | T.  | T.   | 1.05 | .07  | 1.40 | .43  | .90  | T.  |     |     |    |    |    |    |    |     | .06 |    |    |    |     |      | .05 |      | T.   |    | 3.87  |
| Harrisburg         | Lower Susq.    | 1.53         |      |    |     | T.  | .11 | .04  | T.   | T.   | .42  | .07  | 1.17 | .39 | .02 | .03 |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 5.40  |
| Hawley             | Upper Del.     | .32          | .50  |    |     |     |     | .38  | .88  | .24  | .01  | T.   | .08  | .01 | T.  |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    |       |
| Hollisterville     | Upper Del.     | .60          | .30  | T. |     |     |     | .14  | .54  | .61  | T.   | .01  | .20  | .02 |     |     |    |    |    |    |    |     |     |    |    |    |     |      | .01 | .18  | 1.51 |    | 4.04  |
| Holtwood           | Lower Susq.    | .75          | .06  |    |     | T.  | .64 |      | .60  |      | .19  | .36  |      |     |     |     |    |    |    |    |    |     | .55 |    |    |    |     |      |     |      |      |    | 3.41  |
| Huntingdon         | Juniata        | .54          |      |    | .02 | .07 |     | .02  | .18  | .37  | 1.06 | .80  |      | .13 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.19  |
| Hyndman            | Potomac        | .53          |      |    |     | .08 |     |      | 1.16 | .67  | .39  | .81  | .38  | .01 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 4.03  |
| Kylertown          | W. Br. Susq.   | .10          |      |    |     | .05 | .04 | .35  | .39  | .26  | 1.06 | .78  | .05  | T.  | .02 |     |    |    |    |    |    |     |     |    |    |    |     |      | .01 |      |      |    | 3.11  |
| Lakeville          | Upper Del.     | .55          | T.   |    |     | .35 | T.  | .33  | .95  | .11  |      | .13  | .12  | T.  | .02 |     |    |    |    |    |    |     |     |    |    |    |     |      |     | .59  | 1.49 |    | 4.64  |
| Lancaster          | Lower Susq.    | 1.60         |      |    |     | .18 |     | .28  |      | .58  | .21  | .96  |      |     |     |     |    |    |    |    |    |     | .18 |    |    |    |     |      |     |      |      |    | 3.99  |
| Lancaster          | Lehigh         | * 1.42       |      |    |     |     | .44 | *    | .94  |      | .35  | .02  |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.59  |
| Lansford           | N. Br. Susq.   | .20          |      |    |     | .25 | .45 | 1.65 | .05  | .62  | .80  |      | .72  |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      | .05 | .37  |      |    | 5.34  |
| Lawrenceville      | Lower Susq.    | .63          |      |    |     | T.  | .08 | .01  | .16  | .14  | .02  | .10  | .62  | .39 | T.  | .03 |    |    |    |    |    |     |     |    |    |    |     |      |     | .43  |      |    | 2.96  |
| Lebanon            | W. Br. Susq.   | .78          |      |    |     | .05 | .26 | 1.29 |      | .29  | .84  | .04  | .05  | .30 | .11 |     |    |    |    |    |    |     |     |    |    |    |     |      |     | .06  |      |    | 4.07  |
| Lewisburg          | do             |              |      |    |     |     |     |      |      |      |      |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    |       |
| Lloyd              | do             |              |      |    |     |     |     |      |      |      |      |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    |       |
| Lock Haven         | W. Br. Susq.   | .80          |      |    |     | .08 | .21 | 1.37 |      | .13  | 1.15 | .01  | .02  | .03 |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 5.64  |
| Lykens             | Susquehanna    | 1.21         | .17  |    |     | .11 | .22 | .47  | .13  | .13  | .91  | .05  | .29  | .02 | .02 |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.74  |
| Marcus Hook        | Lower Del.     | .88          |      |    |     | .20 |     | T.   |      | *    | 1.87 |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 3.23  |
| Mauch Chunk        | Lehigh         | 1.56         | .34  |    |     |     | .28 | .47  |      | .43  | .02  |      |      |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    | 4.07  |
| Mifflintown        | Juniata        | .92          |      |    |     | T.  | .05 | .23  | .30  | .89  | .80  | .13  | .14  |     |     |     |    |    |    |    |    |     |     |    |    |    |     |      |     |      |      |    |       |



## Daily Precipitation for May, 1932—Continued from page 23

| Stations           | Drainage Basin    | Day of month |     |   |     |     |      |      |      |      |      |     |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     | Total |      |
|--------------------|-------------------|--------------|-----|---|-----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|----|----|-----|------|-----|-----|-----|------|-----|-------|------|
|                    |                   | 1            | 2   | 3 | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11  | 12  | 13  | 14  | 15  | 16 | 17 | 18 | 19  | 20 | 21 | 22 | 23 | 24 | 25  | 26   | 27  | 28  | 29  | 30   | 31  |       |      |
| Ohio Drainage.     |                   |              |     |   |     |     |      |      |      |      |      |     |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       |      |
| Beaver Dam\|\|\| | Ohio.....         | .15          |     |   |     |     | .31  | .02  | .05  | .51  | .70  | .57 | .46 | .03 | .01 | .03 |    |    |    |     |    |    |    |    |    |     |      |     |     | .01 | .01  |     |       | 2.90 |
| Beaver Falls\|\|\| | Beaver.....       | .12          | .03 |   |     |     | .25  | T    | .09  | .20  | .70  | .68 | .42 | .13 | .01 | .03 |    |    |    |     |    |    |    |    |    |     |      |     | T   | T   | T    |     |       | 2.69 |
| Bradford.....      | Allegheny.....    |              |     |   |     |     | .30  | .19  | 1.37 | .27  | .10  | .35 |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       | 4.26 |
| Brookville.....    | do.....           | .15          |     |   |     |     | .32  | .45  | .47  | .48  | .25  | .30 | T   | T   | T   |     |    |    |    |     |    |    |    |    |    | .15 | 1.00 |     | .48 |     |      |     | 2.42  |      |
| Butler.....        | Ohio.....         |              |     |   |     | .27 |      | .10  | .30  |      | 1.10 |     |     | .22 | T   |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     | 1.99  |      |
| Chambersville..... | Allegheny.....    |              |     |   |     | .19 |      | .03  | .55  | .51  | .62  | .17 | .10 | .07 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     | .04 |      |     | 2.28  |      |
| Clairton\|\|\| | Monongahela.....  | .08          |     |   | T   | .15 |      | T    | .10  | .54  | .58  | .31 | .76 | .01 | .01 |     |    |    |    |     |    |    |    |    |    |     |      |     | .10 | .02 | T    |     | 2.67  |      |
| Claysville.....    | Ohio.....         |              |     |   |     | .15 |      |      |      | .91  | .61  | .06 | .38 | .11 | .23 |     |    |    |    |     |    |    |    |    |    |     |      |     | .03 | .22 | T    | .02 | 2.76  |      |
| Clymer\|\|\| | Conemaugh.....    |              |     |   |     |     | .70  | .20  | .50  | .50  |      | .30 |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     | 2.20  |      |
| Confluence\|\|\| | Youghiogheny..... | .36          |     |   |     |     |      |      | 1.67 | .63  | .45  | .60 | .28 | .11 | .08 |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     | 4.18  |      |
| Corry.....         | Allegheny.....    | .15          |     |   |     | .25 | .60  | .70  | 1.30 | 1.10 | .10  | .10 | T   |     |     |     |    |    |    |     |    |    |    |    |    |     | .01  | .32 | .03 | T   |      |     | 4.71  |      |
| Coudersport.....   | Allegheny.....    |              |     |   |     | .31 | 1.10 | .52  | .59  | .36  |      |     |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      | .05 | .52 | .17 |      |     | 3.62  |      |
| Derry.....         | Conemaugh.....    | .80          |     |   |     | .15 |      |      | .20  | 1.10 | 1.21 | .12 | .26 | .56 | T   |     |    |    |    | T   |    |    |    |    |    |     |      |     |     |     |      |     | 4.40  |      |
| Donora\|\|\| | Monongahela.....  | .14          |     |   |     | .08 |      |      | .80  | .68  |      | .86 | .11 | .02 |     |     |    |    |    | .02 |    |    |    |    |    |     |      |     |     |     |      |     | 2.71  |      |
| Ebensburg.....     | Conemaugh.....    | .20          |     |   |     | .23 |      |      | .21  | .39  | 1.02 | .43 | .05 | .08 | .05 |     |    |    |    | .02 |    |    |    |    |    |     |      |     |     |     |      | .02 |       | 2.70 |
| Elk Lick.....      | Youghiogheny..... |              |     |   |     |     |      |      | 1.10 | .80  | .60  | .60 | .20 | .28 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     | .05  |     |       | 3.63 |
| Falls Creek.....   | Allegheny.....    |              |     |   |     | .08 | .10  | .48  | .43  | .44  | .71  | .36 | .10 |     | .04 |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       | 2.74 |
| Franklin\|\|\| | Allegheny.....    | .31          |     |   |     |     | .40  | .44  | .76  | .14  | .47  | .17 |     | .39 |     |     |    |    |    | .08 |    |    |    |    |    |     |      |     | .03 | .23 |      |     |       | 3.42 |
| Freeport\|\|\| | do.....           | .18          |     |   |     | .22 | T    | .22  | .05  | .72  | .30  | .06 | .12 | .01 |     |     |    |    |    | .04 |    |    |    |    |    |     |      |     |     | T   | .02  |     | 1.94  |      |
| Greensboro.....    | Monongahela.....  | .24          |     |   |     | .36 | .11  |      | .21  | .35  | .63  | .60 | .30 | .06 | .20 |     |    |    |    | T   |    |    |    |    |    |     |      |     |     | T   | .02  |     | 3.08  |      |
| Greensburg.....    | Youghiogheny..... | .88          |     |   | T   | .15 |      |      | .03  | .72  | .57  | .04 | .41 | .13 | .05 |     |    |    |    | .03 |    |    |    |    |    |     |      |     |     | .05 | .06  |     | 3.14  |      |
| Greenville.....    | Beaver.....       |              | T   |   |     | .25 | .40  | .30  | .70  | .05  | .31  | .30 |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      | .55 |     | .14 | T    |     | 3.00  |      |
| Grove City.....    | do.....           |              |     |   |     | .22 | .27  | .26  | .25  | .41  | 1.40 |     | .38 |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     | 3.19  |      |
| Herrs Isl. Dam\|\|\| | Ohio.....         | .10          |     |   |     | .26 | .28  | .09  | .85  | .92  | .29  | .37 | .29 | .01 | T   |     |    |    |    | .04 |    |    |    |    |    |     |      |     |     | T   | T    |     | 3.50  |      |
| Ingram.....        | Ohio.....         | .15          |     |   |     | .15 |      | .08  | .10  | 1.07 | 1.10 | .55 | .44 | .05 | .03 |     |    |    |    | .05 |    |    |    |    |    |     |      |     |     |     | T    | T   |       | 3.77 |
| Irwin.....         | Monongahela.....  | .38          |     |   |     | .08 |      |      | .30  | .40  | .37  | .30 | .17 | .19 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     | .08 | .05  | T   |       | 2.27 |
| Johnstown.....     | Conemaugh.....    | .33          |     |   |     | .13 | .10  |      | .09  | .72  | 1.01 | .26 | .01 | .05 |     |     |    |    |    | .02 |    |    |    |    |    |     |      |     |     |     | .01  | .01 | .01   | 2.75 |
| Kregar\|\|\| | Youghiogheny..... |              |     |   | T   | .11 |      | T    | .35  | .52  | .27  | .18 | .08 | .22 | .04 |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     | T    | T   |       | 1.79 |
| Lake Lynn\|\|\| | Monongahela.....  |              |     |   |     | .21 | .12  |      | .60  | .56  | .50  | .42 | .06 | .25 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      | .02 |       | 2.74 |
| Linesville\|\|\| | Beaver.....       | .64          |     |   |     | .44 | 1.01 | 1.38 | .01  | .09  | .06  | .10 |     |     |     |     |    |    |    | .16 |    |    |    |    |    |     |      |     |     |     |      |     | 4.37  |      |
| Lock No. 2\|\|\| | Ohio.....         | .15          |     |   |     | .26 | .04  | .07  | .22  | .58  | .81  | .28 | .09 | .02 | .02 |     |    |    |    | .04 |    |    |    |    |    |     |      |     |     | .35 | .13  | T   |       | 2.58 |
| Lock No. 4\|\|\| | Monongahela.....  | .31          |     |   |     | .25 |      |      | .01  | .82  | .30  | .46 | .68 | .36 | .03 | .04 |    |    |    | .04 |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.80 |
| Lycippus.....      | Conemaugh.....    | .41          |     |   |     | .57 |      |      |      | .50  | 1.09 | .16 | .40 | .05 | .08 |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     | 3.21  |      |
| McKeesport\|\|\| | Monongahela.....  | .03          |     |   |     | .03 |      |      | .19  | .87  | .28  | .31 | .19 | T   |     |     |    |    |    | .02 |    |    |    |    |    |     |      |     |     |     |      | .05 |       | 2.47 |
| Meadville.....     | Allegheny.....    | .09          |     |   |     | .12 | .42  | .40  | 1.42 | .02  | .15  | .03 |     |     |     |     |    |    |    | .16 |    |    |    |    |    |     |      | .04 | .09 | T   |      |     | 2.94  |      |
| Mount Lebanon..... | Ohio.....         |              |     |   |     | .17 |      |      | .11  | 1.23 | .82  | .33 | .25 | .08 | .05 |     |    |    |    | .09 |    |    |    |    |    |     |      |     |     |     | .03  | .01 |       | 3.17 |
| Natrona\|\|\| | Allegheny.....    | .23          |     |   |     | .22 | .02  | .14  | .05  | .70  | .30  | .20 | .25 | .04 |     |     |    |    |    | .04 |    |    |    |    |    |     |      |     |     |     |      |     |       | 2.19 |
| New Castle\|\|\| | Beaver.....       | .20          |     |   | .01 | .35 | .02  | .29  | .29  | .63  | .25  | .04 | .43 | .02 | .01 |     |    |    |    | .06 |    |    |    |    |    |     |      |     |     |     |      |     |       | 2.62 |
| Newell.....        | Monongahela.....  |              | .01 |   |     | .08 |      |      |      | .51  | .85  | .15 | .52 | .10 | .06 | .02 |    |    |    |     |    |    |    |    |    |     |      |     |     |     | .01  | .05 | T     | 2.36 |
| Parkers Landing\|\|\| | Allegheny.....    | .23          | T   |   |     | .33 | .22  | .40  | .89  | .39  | .34  |     | T   |     |     |     |    |    |    | T   |    |    |    |    |    |     |      |     |     |     |      |     |       | 2.80 |
| Pennline\|\|\| | Beaver.....       | .40          |     |   |     | T   | .49  | .97  | 1.44 |      | .02  | .08 | .30 |     |     |     |    |    |    | T   |    |    |    |    |    |     |      |     |     | .14 | .64  | .08 | .01   | 4.77 |
| Pittsburgh***      | Ohio.....         |              |     | T | T   | .16 |      | .02  | .99  | .73  | .43  | .30 | .32 | .01 | .01 |     |    |    |    | T   |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.03 |
| Punkstutawney\|\|\| | Allegheny.....    | .26          |     |   |     |     |      |      | T    | 1.05 | .84  | .94 | .26 | .13 |     | .04 |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.02 |
| Ridgway.....       | do.....           | .17          | .05 |   |     | .05 | .40  |      | .96  | .14  | .52  | .45 |     | .04 |     | .05 |    |    |    | .01 |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.06 |
| Saltsburg\|\|\| | Conemaugh.....    | .16          |     |   |     | .19 | .01  | .12  | 1.01 | .28  | .35  | .12 | .13 | .05 |     |     |    |    |    | .01 |    |    |    |    |    |     |      |     |     | .16 |      | .06 |       | 2.43 |
| Sharon\|\|\| | Beaver.....       | .15          |     |   |     | .30 | .20  | .15  | .30  | .47  | .14  | .06 | T   |     |     |     |    |    |    | .09 |    |    |    |    |    |     |      |     |     |     |      |     |       | 1.96 |
| Smethport.....     | Allegheny.....    | .17          |     |   |     | .12 | .30  | 1.13 | .42  | .24  | .41  | T   |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     | T    | .10 | .16   | 3.05 |
| Somerset.....      | Youghiogheny..... | .46          |     |   |     | .06 |      |      | .76  | .67  | .25  | .40 | .26 | .27 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.15 |
| Springdale\|\|\| | Allegheny.....    | .12          |     |   |     | .20 | .04  | .07  | .50  | 1.06 | .31  | .40 | .14 | .10 | .01 |     |    |    |    | .05 |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.00 |
| Uniontown.....     | Monongahela.....  | .10          |     |   | T   | .11 |      |      | .34  | .80  | .08  | .60 | .15 | .13 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       | 2.35 |
| Unity Reservoir\|\|\| | Youghiogheny..... | .30          |     |   |     | .13 |      |      | .06  | 1.41 | .63  | T   |     | .10 | T   |     |    |    |    | .05 |    |    |    |    |    |     |      |     |     |     | T    |     |       | 2.78 |
| Vandergrift\|\|\| | Conemaugh.....    |              |     |   |     | .14 |      |      | .11  | .50  |      | .25 |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       | 1.00 |
| Warren.....        | Allegheny.....    | .07          |     |   |     | .42 | .40  | 2.12 | 1.50 | .30  | .07  |     |     |     |     |     |    |    |    | .22 |    |    |    |    |    |     |      |     |     | .15 | 1.00 | .15 |       | 6.40 |
| Waynesburg.....    | Monongahela.....  |              |     |   |     | .55 |      |      | .14  | .60  | .30  | .64 | .15 | .23 |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      | .25 |       | 2.86 |
| Westford\|\|\| | Beaver.....       |              |     |   |     | .06 | .90  | 1.37 |      | .05  |      | .32 |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     | .30 | .21  | .05 | .04   | 3.40 |
| West Newton\|\|\| | Youghiogheny..... | .40          |     |   |     | .07 |      |      | .90  | .31  | .53  | .60 | .17 | .02 |     |     |    |    |    | .07 |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.07 |
| Lake Drainage.     |                   |              |     |   |     |     |      |      |      |      |      |     |     |     |     |     |    |    |    |     |    |    |    |    |    |     |      |     |     |     |      |     |       |      |
| Erie***            | Lake Erie.....    | .01          |     |   |     | .06 | .50  | .77  | 1.65 | .09  | T    | T   |     |     |     |     |    |    |    | .24 |    |    |    |    |    |     |      |     |     |     |      |     |       | 3.49 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement

T, (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Bloersville

Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah ‡ Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

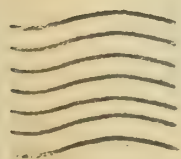
| Stations | Sunshine |  |  |
|----------|----------|--|--|
|----------|----------|--|--|



## Daily Temperatures for May, 1932

| Stations           | 1             | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18   | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|--------------------|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum... 64 | 59 | 66 | 71 | 68 | 68 | 75 | 53 | 59 | 54 | 54 | 56 | 67 | 74 | 73 | 86 | 75 | 66   | 71 | 75 | 83 | 68 | 72 | 86 | 89 | 90 | 89 | 73 | 62 | 69 | 75   | 70.6 |      |
|                    | Minimum... 56 | 49 | 40 | 42 | 48 | 50 | 52 | 50 | 49 | 48 | 43 | 45 | 48 | 48 | 47 | 52 | 59 | 49   | 38 | 40 | 48 | 53 | 38 | 42 | 43 | 59 | 66 | 63 | 52 | 40 | 48   | 48.5 |      |
| Altoona.....       | Maximum... 68 | 59 | 66 | 71 | 66 | 83 | 85 | 83 | 70 | 55 | 49 | 54 | 61 | 62 | 84 | 87 | 77 | 66   | 72 | 80 | 84 | 70 | 75 | 85 | 89 | 90 | 82 | 78 | 62 | 72 | 79   | 72.9 |      |
|                    | Minimum... 51 | 41 | 31 | 46 | 41 | 44 | 59 | 58 | 54 | 41 | 40 | 44 | 50 | 49 | 48 | 54 | 50 | 32   | 32 | 36 | 50 | 44 | 32 | 37 | 49 | 49 | 60 | 53 | 42 | 32 | 42   | 44.7 |      |
| Bedford.....       | Maximum... 70 | 66 | 69 | 72 | 71 | 85 | 87 | 89 | 81 | 69 | 51 | 53 | 69 | 67 | 87 | 89 | 86 | 70   | 72 | 82 | 86 | 80 | 80 | 88 | 90 | 91 | 87 | 80 | 66 | 76 | 82   | 77.1 |      |
|                    | Minimum... 53 | 46 | 31 | 43 | 48 | 47 | 56 | 55 | 57 | 44 | 42 | 47 | 49 | 44 | 45 | 51 | 55 | 37   | 33 | 37 | 51 | 50 | 33 | 36 | 44 | 56 | 59 | 55 | 43 | 49 | 41   | 46.4 |      |
| Bellefonte.....    | Maximum... 68 | 59 | 67 | 70 | 60 | 80 | 82 | 74 | 63 | 52 | 48 | 58 | 69 | 69 | 81 | 85 | 69 | 62   | 71 | 80 | 82 | 63 | 73 | 81 | 86 | 87 | 82 | 65 | 60 | 72 | 79   | 70.9 |      |
|                    | Minimum... 48 | 35 | 29 | 42 | 47 | 43 | 53 | 53 | 49 | 42 | 39 | 45 | 48 | 43 | 44 | 51 | 46 | 34   | 31 | 41 | 48 | 35 | 28 | 34 | 43 | 54 | 56 | 48 | 37 | 30 | 41   | 42.5 |      |
| Brookville.....    | Maximum... 68 | 69 | 58 | 66 | 67 | 59 | 82 | 84 | 81 | 75 | 54 | 54 | 62 | 70 | 67 | 85 | 65 | 65   | 72 | 29 | 31 | 35 | 33 | 27 | 29 | 38 | 50 | 53 | 38 | 28 | 27   | 37.4 |      |
|                    | Minimum... 39 | 42 | 27 | 23 | 42 | 34 | 38 | 52 | 53 | 45 | 45 | 42 | 46 | 41 | 37 | 41 | 30 | 27   | 29 | 31 | 35 | 30 | 23 | 27 | 29 | 38 | 50 | 53 | 38 | 28 | 27   | 37.4 |      |
| Butler.....        | Maximum... 57 | 55 | 66 | 69 | 65 | 80 | 84 | 78 | 73 | 70 | 62 | 62 | 70 | 67 | 84 | 87 | 83 | 65   | 75 | 85 | 80 | 68 | 75 | 83 | 87 | 86 | 83 | 81 | 65 | 73 | 74   | 74.1 |      |
|                    | Minimum... 40 | 38 | 24 | 49 | 40 | 47 | 58 | 50 | 49 | 50 | 46 | 45 | 46 | 45 | 46 | 55 | 45 | 29   | 31 | 35 | 40 | 36 | 32 | 33 | 46 | 58 | 64 | 49 | 30 | 32 | 35   | 42.7 |      |
| Carlisle.....      | Maximum... 69 | 69 | 74 | 74 | 69 | 80 | 90 | 90 | 64 | 55 | 54 | 54 | 73 | 72 | 82 | 87 | 85 | 72   | 75 | 84 | 88 | 80 | 76 | 87 | 87 | 93 | 88 | 84 | 64 | 73 | 83   | 76.6 |      |
|                    | Minimum... 56 | 47 | 35 | 49 | 53 | 50 | 54 | 52 | 51 | 46 | 44 | 48 | 48 | 52 | 45 | 47 | 60 | 43   | 34 | 38 | 47 | 52 | 33 | 38 | 47 | 57 | 58 | 62 | 50 | 34 | 47   | 47.6 |      |
| Catawissa.....     | Maximum... 72 | 61 | 72 | 76 | 68 | 75 | 86 | 72 | 60 | 56 | 58 | 49 | 78 | 76 | 87 | 90 | 80 | 72   | 79 | 84 | 85 | 72 | 79 | 85 | 91 | 91 | 82 | 63 | 55 | 36 | 34   | 52   | 46.3 |
|                    | Minimum... 55 | 38 | 33 | 45 | 48 | 45 | 57 | 52 | 49 | 46 | 45 | 49 | 50 | 40 | 44 | 55 | 56 | 43   | 36 | 34 | 50 | 40 | 33 | 37 | 53 | 61 | 63 | 55 | 36 | 37 | 77   | 86   | 76.5 |
| Chambersburg.....  | Maximum... 73 | 65 | 73 | 79 | 71 | 81 | 90 | 81 | 59 | 55 | 53 | 54 | 73 | 74 | 83 | 88 | 79 | 71   | 75 | 79 | 87 | 77 | 77 | 86 | 93 | 91 | 91 | 82 | 63 | 51 | 48   | 48.8 |      |
|                    | Minimum... 55 | 43 | 35 | 48 | 54 | 48 | 57 | 53 | 51 | 45 | 42 | 47 | 46 | 47 | 52 | 52 | 60 | 44   | 36 | 40 | 50 | 52 | 36 | 51 | 60 | 61 | 60 | 50 | 36 | 61 | 51   | 75.9 |      |
| Chambersville..... | Maximum... 72 | 63 | 67 | 70 | 75 | 84 | 87 | 86 | 76 | 66 | 60 | 58 | 67 | 62 | 83 | 87 | 86 | 66   | 78 | 80 | 87 | 68 | 75 | 85 | 89 | 90 | 82 | 78 | 62 | 72 | 79   | 72.9 |      |
|                    | Minimum... 53 | 40 | 25 | 47 | 40 | 41 | 58 | 60 | 54 | 46 | 43 | 46 | 48 | 42 | 49 | 53 | 46 | 29   | 35 | 38 | 41 | 41 | 30 | 32 | 45 | 55 | 61 | 48 | 34 | 29 | 40   | 43.5 |      |
| Claysville.....    | Maximum... 70 | 67 | 67 | 72 | 81 | 85 | 87 | 85 | 80 | 67 | 71 | 60 | 69 | 69 | 85 | 86 | 80 | 71   | 74 | 85 | 86 | 82 | 77 | 86 | 89 | 88 | 85 | 76 | 65 | 75 | 83   | 77.5 |      |
|                    | Minimum... 54 | 41 | 25 | 50 | 47 | 48 | 59 | 62 | 55 | 54 | 48 | 47 | 48 | 48 | 52 | 55 | 48 | 31   | 34 | 41 | 54 | 59 | 36 | 36 | 53 | 62 | 67 | 50 | 35 | 33 | 42   | 47.5 |      |
| Clearfield.....    | Maximum... 72 | 62 | 70 | 72 | 65 | 84 | 82 | 86 | 70 | 58 | 50 | 63 | 75 | 69 | 86 | 89 | 83 | 72   | 79 | 86 | 86 | 72 | 80 | 86 | 90 | 89 | 84 | 81 | 65 | 73 | 81   | 76.2 |      |
|                    | Minimum... 51 | 38 | 26 | 44 | 38 | 37 | 48 | 52 | 52 | 42 | 38 | 43 | 48 | 40 | 47 | 46 | 45 | 48   | 47 | 29 | 32 | 45 | 40 | 35 | 27 | 40 | 51 | 58 | 50 | 43 | 30   | 42   | 41.8 |
| Coatesville.....   | Maximum... 67 | 63 | 66 | 74 | 68 | 73 | 85 | 64 | 59 | 65 | 53 | 52 | 69 | 76 | 80 | 86 | 76 | 67   | 72 | 75 | 82 | 70 | 72 | 80 | 87 | 88 | 87 | 78 | 63 | 78 | 77   | 72.5 |      |
|                    | Minimum... 54 | 47 | 40 | 45 | 54 | 49 | 53 | 49 | 49 | 46 | 44 | 47 | 46 | 45 | 48 | 45 | 48 | 43   | 40 | 52 | 52 | 40 | 44 | 51 | 52 | 65 | 62 | 50 | 43 | 48 | 48   | 49.2 |      |
| Corry.....         | Maximum... 74 | 49 | 57 | 66 | 63 | 76 | 80 | 78 | 70 | 54 | 63 | 66 | 69 | 70 | 84 | 84 | 68 | 60   | 76 | 82 | 72 | 61 | 70 | 82 | 85 | 83 | 74 | 53 | 61 | 69 | 78   | 70.2 |      |
|                    | Minimum... 42 | 33 | 24 | 38 | 31 | 36 | 54 | 56 | 51 | 45 | 44 | 46 | 44 | 49 | 53 | 59 | 33 | 29   | 32 | 34 | 31 | 33 | 29 | 35 | 50 | 61 | 53 | 42 | 32 | 35 | 40   | 41.1 |      |
| Coudersport.....   | Maximum... 64 | 61 | 66 | 68 | 65 | 78 | 79 | 79 | 66 | 54 | 53 | 60 | 68 | 70 | 83 | 85 | 82 | 63   | 75 | 81 | 82 | 70 | 70 | 81 | 86 | 82 | 80 | 70 | 56 | 66 | 77   | 71.5 |      |
|                    | Minimum... 50 | 37 | 23 | 40 | 38 | 45 | 50 | 58 | 50 | 40 | 38 | 43 | 45 | 38 | 42 | 43 | 26 | 32   | 38 | 34 | 24 | 28 | 38 | 51 | 55 | 45 | 40 | 29 | 38 | 47 | 44.3 |      |      |
| Emporium.....      | Maximum... 63 | 58 | 67 | 71 | 63 | 80 | 81 | 78 | 69 | 55 | 50 | 62 | 70 | 70 | 82 | 85 | 71 | 62   | 74 | 80 | 81 | 65 | 72 | 80 | 84 | 85 | 81 | 65 | 59 | 69 | 77   | 71.4 |      |
|                    | Minimum... 56 | 43 | 26 | 51 | 40 | 42 | 55 | 62 | 54 | 45 | 42 | 48 | 50 | 43 | 48 | 52 | 50 | 31   | 31 | 35 | 43 | 42 | 28 | 32 | 40 | 57 | 61 | 50 | 41 | 33 | 42   | 44.3 |      |
| Erie.....          | Maximum... 60 | 46 | 57 | 62 | 53 | 78 | 77 | 66 | 59 | 58 | 57 | 56 | 63 | 70 | 82 | 86 | 53 | 56   | 66 | 75 | 70 | 52 | 64 | 75 | 82 | 81 | 76 | 55 | 58 | 67 | 74   | 65.6 |      |
|                    | Minimum... 42 | 37 | 35 | 47 | 39 | 44 | 45 | 46 | 43 | 52 | 49 | 46 | 46 | 57 | 60 | 51 | 45 | 41   | 43 | 52 | 48 | 40 | 39 | 48 | 63 | 65 | 55 | 48 | 41 | 45 | 55   | 47.3 |      |
| Franklin.....      | Maximum... 65 | 52 | 68 | 68 | 62 | 80 | 83 | 79 | 73 | 56 | 63 | 65 | 70 | 68 | 84 | 85 | 62 | 64   | 78 | 84 | 81 | 66 | 75 | 83 | 86 | 87 | 81 | 61 | 65 | 72 | 81   | 72.6 |      |
|                    | Minimum... 48 | 38 | 27 | 30 | 39 | 44 | 54 | 58 | 53 | 50 | 45 | 48 | 47 | 49 | 48 | 54 | 42 | 31   | 33 | 38 | 45 | 42 | 30 | 33 | 44 | 55 | 61 | 50 | 35 | 32 | 41   | 43.4 |      |
| Freeland.....      | Maximum... 64 | 56 | 62 | 69 | 60 | 65 | 74 | 72 | 56 | 51 | 47 | 56 | 68 | 71 | 78 | 84 | 75 | 60   | 72 | 79 | 84 | 66 | 70 | 78 | 88 | 87 | 84 | 74 | 55 | 68 | 74   | 69.3 |      |
|                    | Minimum... 50 | 40 | 31 | 45 | 44 | 46 | 54 | 45 | 40 | 37 | 42 | 46 | 48 | 49 | 60 | 55 | 38 | 32   | 44 | 55 | 41 | 36 | 50 | 54 | 64 | 61 | 52 | 42 | 39 | 52 | 46   | 46.5 |      |
| Gettysburg.....    | Maximum... 71 | 64 | 69 | 76 | 74 | 78 | 87 | 84 | 66 | 56 | 55 | 52 | 72 | 75 | 81 | 87 | 83 | 71   | 73 | 76 | 83 | 80 | 73 | 82 | 90 | 90 | 86 | 77 | 65 | 74 | 80   | 75.2 |      |
|                    | Minimum... 55 | 47 | 37 | 50 | 55 | 51 | 57 | 52 | 52 | 47 | 47 | 49 | 49 | 49 | 55 | 57 | 50 | 34   | 37 | 41 | 55 | 45 | 39 | 41 | 55 | 54 | 64 | 67 | 50 | 47 | 53   | 50.9 |      |
| Greensburg.....    | Maximum... 69 | 59 | 64 | 72 | 68 | 83 | 85 | 83 | 80 | 70 | 65 | 57 | 68 | 63 | 82 | 85 | 78 | 63   | 75 | 82 | 83 | 68 | 74 | 83 | 87 | 83 | 81 | 74 | 73 | 72 | 80   | 74.5 |      |
|                    | Minimum... 53 | 42 | 29 | 49 | 48 | 51 | 53 | 55 | 56 | 50 | 47 | 47 | 49 | 48 | 50 | 55 | 40 | 47   | 54 | 41 | 37 | 44 | 59 | 65 | 65 | 65 | 64 | 67 | 50 | 47 | 53   | 47.3 |      |
| Grove City.....    | Maximum... 61 | 58 | 62 | 65 | 62 | 77 | 80 | 78 | 76 | 63 | 60 | 68 | 63 | 65 | 82 | 82 | 70 | 63   | 75 | 82 | 82 | 66 | 74 | 81 | 84 | 84 | 78 | 77 | 60 | 71 | 78   | 71.8 |      |
|                    | Minimum... 52 | 38 | 29 | 51 | 44 | 49 | 58 | 62 | 55 | 48 | 46 | 47 | 48 | 50 | 55 | 50 | 45 | 35   | 40 | 47 | 54 | 41 | 37 | 44 | 59 | 65 | 65 | 64 | 36 | 36 | 51   | 47.8 |      |
| Hamburg.....       | Maximum... 66 | 60 | 70 | 74 | 75 | 78 | 77 | 65 | 58 | 49 | 58 | 69 | 68 | 72 | 86 | 80 | 73 | 75   | 77 | 74 | 79 | 83 | 89 | 89 | 86 | 72 | 68 | 72 | 60 | 71 | 78   | 73.0 |      |
|                    | Minimum... 43 | 38 | 35 | 38 | 47 | 47 | 48 | 48 | 48 | 43 | 46 | 48 | 48 | 48 | 48 | 45 | 46 | 56   | 56 | 35 | 38 | 35 | 36 | 40 | 47 | 58 | 60 | 44 | 48 | 50 | 52   | 45.2 |      |
| Harrisburg.....    | Maximum... 68 | 63 | 69 | 73 | 63 | 77 | 86 | 59 | 56 | 59 | 51 | 56 | 74 | 72 | 85 | 87 | 75 | 64   | 70 | 76 | 83 | 67 | 72 | 83 | 88 | 89 | 85 | 72 | 62 | 71 | 78   | 72.0 |      |
|                    | Minimum... 56 | 46 | 42 | 53 | 54 | 51 | 58 | 52 | 50 | 48 | 41 | 49 | 49 | 55 | 51 | 60 | 57 | 49   | 42 | 46 | 58 | 52 | 45 | 46 | 58 | 67 | 68 | 54 | 50 | 43 | 57   | 51.8 |      |
| Hawley.....        | Maximum... 67 | 64 | 65 | 71 | 69 | 62 | 61 | 57 | 61 | 60 | 60 | 62 | 70 | 77 | 82 | 88 | 85 | 69   | 75 | 83 | 82 | 73 | 72 | 82 | 91 | 89 | 86 | 71 | 60 | 72 | 75   | 72.3 |      |
|                    | Minimum... 54 | 40 | 30 | 38 | 43 | 44 | 45 | 46 | 45 | 43 | 37 | 46 | 47 | 39 | 41 | 50 | 57 | 43</ |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

AUG 10 1932

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PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII.

JUNE, 1932.

No. 6.

GENERAL SUMMARY.

June temperatures averaged somewhat above the normal, and yet one of the most destructive June frosts of recent years occurred on the 8th. Freezing temperatures were recorded at one-fourth of the stations, while frosts covered the greater portion of the State. Many gardens were ruined, and some damage was done to field crops and to orchard fruits. This frost followed an excessively warm week. The rainfall averaged about three-fourths of the June normal, but such a statement conveys no idea of the conditions on account of the uneven distribution that occurred. The monthly rainfall ranged from 0.73 inch at Beaver to 7.08 inches at Mt. Pocono. In a general way the excess in rainfall occurred in the mountain districts, leaving the driest regions in the northern and western counties. It so happened that the northern counties received a large excess of rainfall in May, so the June shortage did little or no damage, but in the western counties the rainfall was deficient for both May and June, which resulted in a drought condition that became alarming. This dry region comprised a section about sixty miles wide across the western end of the State. Crop growth in this belt came practically to a standstill, and prospective yields were greatly reduced. Corn suffered least of all crops in the dry regions, and was generally reported good. Some was laid by at the close of the month. Wheat made most of its development before the drought became severe, but suffered in many places from rust and from the fly. It was ripening rapidly at the close of the month, and harvest had begun in a few places. Oats was hard hit in the dry regions and developed very short straw. Much of the crop headed out at ten or twelve inches in height, and reports said that such fields would be mown for hay. The potato crop was good wherever the rainfall was sufficient, except for unusual damage by Colorado beetles. Orchard fruits were mostly fair. Apples gave promise of yields nearly up to the ten year average. Peaches made a light setting. Cherries were a large crop, but many rotted on the trees. Pears seemed to be about an average crop. The greater portion of the June rains accompanied thunderstorms, many of which were severe. On the 18th a house near Honesdale was struck by lightning, and a resulting explosion was said to have resembled that of a bomb. The furniture in one room was completely destroyed. On the night of the 21st a severe storm did much damage in the vicinity of Johnstown. Two men were killed by lightning. The accompanying rainfall was excessive, and did much damage by wash-

ing fields. UNIVERSITY OF ILLINOIS

TEMPERATURE.

The mean temperature for the State, as shown by reports from 88 stations, was 68.5°, which is 0.6° warmer than the June normal. The highest mean 74.8° was recorded at Marcus Hook, and the lowest 56.2°, was reported from Mt. Pocono. The highest temperature for the month was 98°, recorded at Lewisburg on the 7th and 29th. The lowest for the month was 26°, at Mt. Pocono and Somerset on the 8th. The greatest daily range of temperature was 49° at Hyndman on the 25th.

PRECIPITATION.

The average precipitation for the State, as shown by the reports of 146 stations, was 3.15 inches, which is a deficiency of 1.03 inches as compared with the June normal. The greatest monthly amount was 7.08 inches at Mt. Pocono, while the least was 0.73 inch at Beaver Falls and Ingram. The greatest amount recorded in any 24 consecutive hours was 3.47 inches at Philadelphia Navy Yard on the 17th.

COMPARATIVE DATA FOR JUNE

| Year            | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                 | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....       | 68.4        | 100     | 30     | 3.04          | 6.90     | 1.08  | .....       | .....         | .....  | 9                      |
| 1889.....       | 66.7        | 95      | 33     | 5.43          | 10.04    | 2.71  | .....       | .....         | .....  | 15                     |
| 1890.....       | 70.1        | 97      | 33     | 3.42          | 5.74     | 1.30  | 12          | 11            | 7      | 9                      |
| 1891.....       | 68.2        | 100     | 30     | 4.50          | 9.30     | 1.22  | 14          | 8             | 8      | 11                     |
| 1892.....       | 71.8        | 99      | 40     | 5.64          | 10.55    | 1.83  | 9           | 11            | 10     | 13                     |
| 1893.....       | 69.8        | 100     | 38     | 3.12          | 6.50     | 1.20  | 10          | 11            | 9      | 9                      |
| 1894.....       | 69.6        | 102     | 30     | 2.57          | 5.31     | 0.61  | 13          | 12            | 5      | 10                     |
| 1895.....       | 71.4        | 104     | 32     | 3.50          | 9.21     | 0.69  | 13          | 10            | 7      | 9                      |
| 1896.....       | 67.4        | 98      | 32     | 4.64          | 9.11     | 1.89  | 10          | 11            | 9      | 11                     |
| 1897.....       | 64.8        | 96      | 28     | 3.38          | 6.42     | 1.11  | 11          | 11            | 8      | 11                     |
| 1898.....       | 69.6        | 100     | 33     | 2.79          | 6.96     | 0.56  | 14          | 11            | 5      | 9                      |
| 1899.....       | 69.9        | 101     | 32     | 3.51          | 5.97     | 0.65  | 13          | 11            | 6      | 9                      |
| 1900.....       | 69.9        | 97      | 35     | 3.60          | 10.29    | 1.35  | 11          | 12            | 7      | 10                     |
| 1901.....       | 69.1        | 103     | 32     | 3.47          | 7.61     | 0.88  | 12          | 11            | 7      | 10                     |
| 1902.....       | 66.0        | 97      | 32     | 5.97          | 8.93     | 3.85  | 11          | 12            | 7      | 13                     |
| 1903.....       | 63.5        | 90      | 34     | 6.53          | 11.76    | 3.74  | 7           | 10            | 13     | 15                     |
| 1904.....       | 67.9        | 96      | 32     | 4.06          | 6.67     | 1.62  | 12          | 10            | 8      | 13                     |
| 1905.....       | 68.0        | 99      | 30     | 4.39          | 8.35     | 1.77  | 11          | 10            | 9      | 13                     |
| 1906.....       | 69.3        | 97      | 28     | 5.43          | 10.29    | 1.40  | 11          | 12            | 7      | 13                     |
| 1907.....       | 63.6        | 98      | 30     | 4.99          | 8.55     | 2.79  | 11          | 9             | 10     | 12                     |
| 1908.....       | 68.8        | 102     | 28     | 2.36          | 4.61     | 0.58  | 19          | 9             | 2      | 7                      |
| 1909.....       | 68.8        | 96      | 34     | 4.48          | 8.96     | 1.89  | 12          | 9             | 9      | 13                     |
| 1910.....       | 65.4        | 95      | 32     | 4.31          | 8.68     | 1.33  | 12          | 8             | 10     | 11                     |
| 1911.....       | 68.3        | 99      | 38     | 4.71          | 10.11    | 2.13  | 12          | 10            | 8      | 12                     |
| 1912.....       | 65.6        | 96      | 29     | 3.36          | 8.58     | 0.79  | 13          | 9             | 8      | 8                      |
| 1913.....       | 68.2        | 99      | 20     | 2.26          | 7.61     | 0.66  | 19          | 7             | 4      | 7                      |
| 1914.....       | 68.6        | 101     | 25     | 3.71          | 7.05     | 1.17  | 16          | 8             | 8      | 9                      |
| 1915.....       | 65.6        | 92      | 31     | 4.00          | 6.80     | 1.51  | 14          | 10            | 6      | 11                     |
| 1916.....       | 63.7        | 89      | 28     | 6.14          | 12.45    | 2.83  | 11          | 10            | 9      | 15                     |
| 1917.....       | 66.8        | 92      | 32     | 5.38          | 9.85     | 2.25  | 12          | 11            | 7      | 14                     |
| 1918.....       | 66.0        | 98      | 29     | 3.42          | 2.65     | 0.44  | 13          | 11            | 6      | 10                     |
| 1919.....       | 71.2        | 102     | 32     | 3.90          | 9.17     | 1.74  | 16          | 9             | 5      | 10                     |
| 1920.....       | 67.0        | 99      | 32     | 4.97          | 8.37     | 2.25  | 12          | 11            | 7      | 13                     |
| 1921.....       | 70.6        | 101     | 26     | 3.12          | 9.86     | 0.70  | 17          | 9             | 4      | 8                      |
| 1922.....       | 69.5        | 96      | 30     | 5.11          | 12.46    | 1.78  | 11          | 11            | 8      | 13                     |
| 1923.....       | 70.9        | 103     | 32     | 2.73          | 7.99     | 0.41  | 16          | 9             | 5      | 9                      |
| 1924.....       | 65.8        | 98      | 26     | 5.57          | 9.75     | 2.23  | 11          | 11            | 8      | 15                     |
| 1925.....       | 71.9        | 104     | 29     | 3.04          | 7.02     | 0.62  | 16          | 11            | 3      | 9                      |
| 1926.....       | 64.1        | 94      | 23     | 3.63          | 6.56     | 1.20  | 13          | 10            | 7      | 12                     |
| 1927.....       | 63.8        | 99      | 25     | 3.72          | 6.78     | 1.59  | 15          | 8             | 7      | 9                      |
| 1928.....       | 65.5        | 93      | 30     | 7.96          | 13.14    | 3.96  | 9           | 9             | 12     | 17                     |
| 1929.....       | 67.8        | 98      | 28     | 3.56          | 6.77     | 1.10  | 15          | 10            | 5      | 10                     |
| 1930.....       | 69.1        | 100     | 22     | 4.20          | 13.02    | 1.56  | 17          | 8             | 5      | 9                      |
| 1931.....       | 68.5        | 102     | 28     | 3.71          | 8.08     | 1.23  | 16          | 8             | 6      | 9                      |
| 1932.....       | 68.5        | 98      | 26     | 3.15          | 7.05     | 0.73  | 13          | 9             | 8      | 11                     |
| Normal and..... | 67.9        | .....   | .....  | 4.18          | .....    | ..... | 13          | 10            | 7      | 11                     |
| Extremes.....   | .....       | 104     | 20     | .....         | 13.14    | 0.41  | .....       | .....         | .....  | .....                  |



Climatological Data for June, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |       |                 |       | Precipitation, in inches |       |                           |                      | No. of days               |                               |       | Prevailing direction of wind | Observers |            |                             |                   |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|-------|-----------------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|-------------------------------|-------|------------------------------|-----------|------------|-----------------------------|-------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date  | Lowest          | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation of 1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |                   |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |       |                 |       |                          |       |                           |                      |                           |                               |       |                              |           |            |                             |                   |
| Allentown          | Lehigh       | 254             | 20                      | 68.2                         | .....                     | 90              | 26    | 39              | 8     | 33                       | 2.30  | -1.15                     | 0.78                 | 0                         | 11                            | 14    | 8                            | 8         | sw.        | John A. Frick.              |                   |
| Altoona            | Blair        | 1,615           | 45                      | 67.0                         | +0.7                      | 91              | 4     | 47              | 32    | 8                        | 38    | 4.63                      | +0.77                | 0.79                      | 0                             | 13    | 20                           | 5         | 5          | w.                          | F. E. Rooney.     |
| Ardmore            | Montgomery   | 350             | .....                   | 67.0                         | -1.1                      | 91              | 26    | 44              | 33    | 8                        | 33    | 2.78                      | -1.20                | 0.73                      | 0                             | 10    | .....                        | .....     | .....      | n.                          | H. G. Balderston. |
| Arcadustown        | Adams        | 700             | 10                      | 70.2                         | .....                     | 96 <sup>a</sup> | 30    | 37              | 8     | 45                       | 3.53  | .....                     | 1.00                 | 0                         | 8                             | 17    | 7                            | 6         | n.         | Dr. S. W. Frost.            |                   |
| Bedford            | Bedford      | 1,060           | 24                      | 66.6                         | .....                     | 92              | 25    | 35              | 8     | 47                       | 1.69  | .....                     | 0.47                 | 0                         | 12                            | 13    | 8                            | 9         | n.w.       | Charles C. Lee.             |                   |
| Bellefonte         | Center       | 1,050           | 24                      | 66.6                         | -2.7                      | 88              | 4     | 31              | 8     | 38                       | 2.40  | -2.48                     | 0.61                 | 0                         | 13                            | 6     | 14                           | 11        | w.         | U. S. Weather Bureau.       |                   |
| Bethlehem          | Northampton  | 364             | 47                      | 71.0                         | +0.4                      | 92              | 26    | 43              | 8     | 31                       | 2.32  | -1.72                     | 0.67                 | 0                         | 12                            | 11    | 4                            | 15        | w.         | Lehigh University.          |                   |
| Carlisle           | Cumberland   | 467             | 66                      | 71.0                         | 0.0                       | 95              | 4     | 35              | 8     | 41                       | 2.83  | -1.25                     | 0.79                 | 0                         | 11                            | 17    | 6                            | 7         | n.w.       | Prof. C. E. Miller.         |                   |
| Catawissa          | Columbia     | 520             | 36                      | 69.8                         | -1.6                      | 93              | 5     | 35              | 8     | 44                       | 6.28  | +2.31                     | 2.68                 | 0                         | 9                             | 17    | 8                            | 5         | .....      | W. L. Gearhart.             |                   |
| Center Hall        | Center       | 1,272           | 36                      | 61.6                         | +4.4                      | 86              | 4     | 34              | 8     | 38                       | 3.01  | -1.41                     | 0.53                 | 0                         | 12                            | 19    | 8                            | 3         | .....      | S. W. Smith.                |                   |
| Chambersburg       | Franklin     | 580             | 33                      | 72.0                         | +2.6                      | 96              | 5     | 38              | 8     | 41                       | 2.51  | -1.60                     | 0.69                 | 0                         | 11                            | 9     | 14                           | 7         | n.e.       | William B. Spear.           |                   |
| Clearfield         | Clearfield   | 1,120           | 25                      | 68.6                         | +1.7                      | 94              | 5     | 32              | 8     | 42                       | 3.90  | -1.06                     | 1.80                 | 0                         | 13                            | 12    | 14                           | 4         | n.w.       | E. W. Hess.                 |                   |
| Coatesville        | Chester      | 380             | 45                      | 70.8                         | +0.8                      | 93              | 26    | 42              | 8     | 33                       | 2.47  | -1.60                     | 0.62                 | 0                         | 12                            | 17    | 4                            | 9         | n.w.       | Howard L. Pyle.             |                   |
| Colebrook          | Lebanon      | 560             | 21                      | 67.6                         | -0.5                      | 90              | 26    | 33              | 8     | 39                       | 4.31  | +0.09                     | 1.97                 | 0                         | 14                            | 16    | 5                            | 9         | w.         | Wm. A. Rorer.               |                   |
| Emporium           | Cameron      | 1,050           | 45                      | 66.4                         | +0.6                      | 85              | 3     | 34              | 8     | 36                       | 3.01  | -1.49                     | 0.75                 | 0                         | 13                            | 12    | 10                           | 8         | n.w.       | T. B. Lloyd.                |                   |
| Ephrata            | Lancaster    | 380             | 40                      | 72.0                         | +3.5                      | 95              | 4     | 37              | 8     | 39                       | 2.86  | -1.46                     | 0.85                 | 0                         | 11                            | 15    | 4                            | 11        | n.         | Ira J. Keath.               |                   |
| Freeland           | Luzerne      | 1,970           | 39                      | 65.6                         | +1.0                      | 85              | 4     | 35              | 8     | 31                       | 5.29  | +0.75                     | 2.16                 | 0                         | 15                            | 11    | 7                            | 12        | n.w.       | Theo. Reichmann.            |                   |
| George School      | Bucks        | 190             | 26                      | 70.4                         | +1.8                      | 92              | 26    | 40              | 8     | 33                       | 3.41  | +0.04                     | 0.85                 | 0                         | 11                            | 12    | 7                            | .....     | n.         | Prof. N. W. Swayne.         |                   |
| Gettysburg         | Adams        | 553             | 59                      | 71.4                         | +1.5                      | 92              | 26    | 41              | 8     | 37                       | 3.29  | -0.62                     | 0.66                 | 0                         | 15                            | 16    | 5                            | 9         | s.         | Dr. Henry Stewart.          |                   |
| Jordon             | Schuylkill   | 840             | 28                      | 67.4                         | +1.8                      | 88              | 6     | 30              | 8     | 42                       | 3.28  | -1.26                     | 1.17                 | 0                         | 12                            | 14    | 7                            | 9         | n.w.       | Sallie M. Johnson.          |                   |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 57.9                         | .....                     | 79              | 5     | 29              | 8     | 36                       | 5.31  | +0.32                     | 2.00                 | 0                         | 12                            | 13    | 11                           | 6         | n.w.       | Gustav Holtz.               |                   |
| Hamburg            | Berks        | 535             | 39                      | 67.4                         | -1.6                      | 91              | 30    | 35              | 8     | 44                       | 4.05  | -0.16                     | 1.34                 | 0                         | 12                            | 13    | 11                           | 6         | w.         | State Sanatorium.           |                   |
| Hanover            | York         | 600             | 28                      | 72.4                         | +1.5                      | 94              | 26    | 40              | 8     | 34                       | 4.29  | +0.30                     | 2.48                 | 0                         | 12                            | 15    | 7                            | 8         | s.         | Thomas Y. Cooper.           |                   |
| Harrisburg         | Dauphin      | 361             | 63                      | 70.8                         | +0.5                      | 92              | 26    | 45              | 8     | 28                       | 3.31  | -0.28                     | 0.94                 | 0                         | 11                            | 8     | 12                           | 10        | w.         | U. S. Weather Bureau.       |                   |
| Hawley             | Wayne        | 900             | 14                      | 65.0                         | -1.3                      | 88              | 5     | 32              | 8     | 45                       | 4.56  | +0.77                     | 1.40                 | 0                         | 12                            | 14    | 10                           | 6         | w.         | Mrs. Della M. Pennell.      |                   |
| Holtwood           | Lancaster    | 200             | 17                      | 73.8                         | +2.2                      | 97              | 27    | 48              | 8     | 33                       | 1.70  | -1.64                     | 0.60                 | 0                         | 8                             | 13    | 6                            | 11        | .....      | H. W. Lowy, C. E.           |                   |
| Huntingdon         | Huntingdon   | 650             | 45                      | 69.1                         | +0.8                      | 94              | 5     | 32              | 8     | 43                       | 3.19  | -1.09                     | 1.16                 | 0                         | 9                             | 18    | 5                            | 7         | w.         | Prof. Paul R. Yoder.        |                   |
| Hyndman            | Bedford      | 977             | 20                      | 70.6                         | +3.2                      | 94              | 4     | 34              | 8     | 49                       | 2.28  | -2.51                     | 0.42                 | 0                         | 12                            | 11    | 4                            | 15        | .....      | Horace A. Sheavly.          |                   |
| Lancaster          | Lancaster    | 255             | 45                      | 67.7                         | -2.3                      | 92              | 4     | 33              | 8     | 44                       | 4.28  | +0.31                     | 2.10                 | 0                         | 10                            | 19    | 5                            | 6         | n.w.       | Supt. of Water Works.       |                   |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 67.3 <sup>a</sup>            | +1.7                      | 89 <sup>a</sup> | 21    | 33              | 8     | 42 <sup>a</sup>          | 2.25  | -1.71                     | 0.75                 | 0                         | 11                            | 18    | 5                            | 7         | .....      | C. P. Darling.              |                   |
| Lebanon            | Lebanon      | 469             | 48                      | 70.0                         | +0.4                      | 94              | 26    | 40              | 8     | 38                       | 3.68  | -0.47                     | 1.08                 | 0                         | 15                            | 14    | 11                           | 5         | n.w.       | S. B. Benzing.              |                   |
| Lewisburg          | Union        | 450             | 56                      | 72.4 <sup>b</sup>            | +3.4                      | 98 <sup>b</sup> | 7     | 38              | 8     | 41 <sup>b</sup>          | 3.44  | -0.77                     | 1.07                 | 0                         | 12                            | 16    | 9                            | 5         | se.        | Prof. W. G. Owens.          |                   |
| Lock Haven         | Clinton      | 560             | 42                      | 71.4                         | +1.9                      | 95              | 6     | 36              | 8     | 40                       | 40.6  | -0.29                     | 1.35                 | 0                         | 14                            | 10    | 14                           | 6         | sw.        | Joseph Beaver.              |                   |
| Lykens             | Dauphin      | 680             | 17                      | 69.1                         | +1.6                      | 92              | 4     | 30              | 8     | 48                       | 5.16  | +0.35                     | 1.25                 | 0                         | 13                            | 19    | 8                            | 3         | n.w.       | Susquehanna Collieries Co.  |                   |
| Marcus Hook        | Delaware     | 50              | 5                       | 74.8 <sup>b</sup>            | .....                     | 95 <sup>b</sup> | 6     | 45 <sup>b</sup> | 8     | 32 <sup>b</sup>          | 2.95  | .....                     | 1.27                 | 0                         | 7                             | 22    | 0                            | 8         | sw.        | Sun Oil Co.                 |                   |
| Mauch Chunk        | Carbon       | 600             | 43                      | 65.9                         | -1.9                      | 87              | 30    | 33              | 8     | 43                       | 4.59  | +0.17                     | 1.47                 | 0                         | 10                            | 15    | 6                            | 9         | w.         | R. K. Wintermute.           |                   |
| Millintown         | Junata       | 445             | 28                      | 69.0                         | +0.6                      | 91              | 26    | 35              | 8     | 40                       | 3.99  | -0.44                     | 1.63                 | 0                         | 13                            | 10    | 4                            | 16        | w.         | Wellington Smith.           |                   |
| Montrose           | Susquehanna  | 1,720           | 28                      | 62.2                         | -1.0                      | 82              | 5     | 32              | 8     | 33                       | 3.25  | -0.85                     | 1.20                 | 0                         | 8                             | 16    | 5                            | 9         | w.         | Silas Jagger.               |                   |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 56.2                         | -5.5                      | 80              | 22    | 26              | 8     | 31                       | 7.08  | +1.83                     | 2.30                 | 0                         | 13                            | 15    | 3                            | 12        | n.w.       | Cecil J. Hoskinson.         |                   |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 65.2 <sup>a</sup>            | 0.0                       | 88 <sup>a</sup> | 6     | 29              | 8     | 40                       | 4.25  | -2.68                     | 0.74                 | 0                         | 11                            | 18    | 4                            | 8         | sw.        | H. O. Hacker.               |                   |
| Neshaminy Falls    | Bucks        | 60              | 43                      | 69.6                         | +1.0                      | 90              | 4     | 37              | 8     | 35                       | 4.88  | +1.12                     | 1.24                 | 0                         | 13                            | 18    | 7                            | 5         | w.         | Philadelphia Sub. Water Co. |                   |
| Palmerton          | Carbon       | 398             | 14                      | 67.4                         | .....                     | 88              | 5     | 37              | 8     | 35                       | 3.72  | -0.51                     | 1.52                 | 0                         | 9                             | 14    | 6                            | 10        | sw.        | New Jersey Zinc Co.         |                   |
| Philadelphia       | Philadelphia | 114             | 61                      | 72.6                         | +1.2                      | 92              | 26    | 50              | 8     | 25                       | 3.89  | +0.15                     | 1.27                 | 0                         | 10                            | 9     | 9                            | 12        | sw.        | U. S. Weather Bureau.       |                   |
| Philadelphia-Gtn.  | Philadelphia | 113             | 8                       | 72.6                         | .....                     | 94              | 26    | 48              | 8     | 25                       | 3.66  | .....                     | 2.09                 | 0                         | 8                             | 11    | 13                           | 6         | .....      | Julius Bernstein.           |                   |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 71.0                         | -0.8                      | 89              | 5     | 47              | 8     | 23                       | 5.95  | +2.14                     | 3.47                 | 0                         | 11                            | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |                   |
| Phoenixville       | Chester      | 100             | 22                      | 72.2                         | +1.0                      | 93              | 4     | 46              | 8     | 35                       | 2.63  | -0.98                     | 0.73                 | 0                         | 9                             | 16    | 9                            | 5         | s.         | Philadelphia Sub. Water Co. |                   |
| Quakertown         | Bucks        | 496             | 47                      | 67.8                         | -0.5                      | 89              | 4     | 37              | 8     | 37                       | 1.90  | -1.72                     | 0.50                 | 0                         | 10                            | 9     | 10                           | 11        | n.w.       | John E. Bentner.            |                   |
| Reading            | Berks        | 325             | 60                      | 70.5                         | +0.7                      | 92              | 26    | 44              | 8     | 29                       | 4.10  | +0.65                     | 1.38                 | 0                         | 11                            | 7     | 9                            | 14        | sw.        | U. S. Weather Bureau.       |                   |
| Scranton           | Lackawanna   | 805             | 38                      | 67.3                         | -0.5                      | 87              | 26    | 38              | 8     | 34                       | 3.24  | -0.43                     | 1.17                 | 0                         | 11                            | 5     | 14                           | 11        | sw.        | U. S. Weather Bureau.       |                   |
| Selinsgrove        | Snyder       | 455             | 42                      | 69.0                         | -0.1                      | 91              | 6     | 35              | 8     | 40                       | 1.40  | -2.80                     | 0.47                 | 0                         | 10                            | 10    | 13                           | 7         | w.         | Dr. George E. Fisher.       |                   |
| Shawmont           | Philadelphia | 51              | 36                      | 71.7                         | -0.3                      | 92              | 5     | 46              | 8     | 33                       | 3.05  | -0.44                     | 1.16                 | 0                         | 12                            | 12    | 11                           | 7         | w.         | W. S. Guiles.               |                   |
| State College      | Center       | 1,217           | 48                      | 67.2                         | +0.8                      | 87              | 4     | 36              | 8     | 35                       | 2.61  | -1.68                     | 0.69                 | 0                         | 14                            | 12    | 11                           | 7         | w.         | C. A. Kern.                 |                   |
| Stroudsburg        | Monroe       | 500             | 18                      | 67.2                         | +0.8                      | 92              | 5     | 34              | 8     | 48                       | 4.03  | -0.47                     | 1.60                 | 0                         | 9                             | 16    | 8                            | 6         | w.         | State Normal School.        |                   |
| Towanda            | Bradford     | 754             | 38                      | 65.8                         | +0.3                      | 84              | 3     | 34              | 8     | 37                       | 1.59  | -2.22                     | 0.34                 | 0                         | 14                            | 7     | 14                           | 9         | sw.        | Hiram E. Bull, C. E.        |                   |
| Wellsboro          | Tioga        | 1,419           | 62                      | 64.4                         | +0.1                      | 88              | 20    | 30              | 7     | 47                       | 0.98  | -3.01                     | 0.30                 | 0                         | 7                             | 17    | 6                            | 7         | w.         | George W. Hill.             |                   |
| West Chester       | Chester      | 455             | 83                      | 70.1                         | +0.6                      | 87              | 5     | 44              | 8     | 28                       | 2.49  | -1.78                     | 0.90                 | 0                         | 8                             | 11    | 10                           | 9         | w.         | Joseph W. Belt.             |                   |
| Williamsport       | Lycoming     | 521             | 46                      | 69.7                         | +0.9                      | 90              | 5     | 37              | 8     | 39                       | 2.71  | -1.22                     | 0.63                 | 0                         | 13                            | 10    | 10                           | 10        | n.w.       | Miss Veronica E. April.     |                   |
| York               | York         | 400             | 44                      | 70.4                         | +0.5                      | 95              | 26    | 36              | 8     | 43                       | 2.12  | -1.46                     | 0.80                 | 0                         | 10                            | 17    | 9                            | 4         | .....      | York Water Co.              |                   |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |       |                 |       |                          |       |                           |                      |                           |                               |       |                              |           |            |                             |                   |
| Beaver Dam         | Beaver       | 700             | 40                      | 69.8                         | +0.7                      | 94              | 19    | 39              | 8     | 38                       | 1.27  | -3.34                     | 0.64                 | 0                         | 13                            | 4     | 19                           | 7         | sw.        | U. S. Engineer.             |                   |
| Bradford           | McKean       | 1,460           | 13                      | 65.4                         | +0.2                      | 90              | 20    | 37              | 8     | 45                       | 3.10  | -1.45                     | 0.75                 | 0                         | 13                            | 5     | 12                           | 13        | sw.        | Supt. Timber Pres. Plant.   |                   |
| Brookville         | Jefferson    | 1,173           | 42                      | 63.4                         | +0.2                      | 89              | 5     | 29              | 9     | 45                       | 3.24  | -1.00                     | 0.68                 | 0                         | 13                            | 20    | 5                            | 5         | .....      | John Fawcett.               |                   |
| Butler             | Butler       | 1,077           | 19                      | 68.8                         | .....                     | 91              | 5     | 33              | 8     | 40                       | 2.56  | -2.32                     | 0.50                 | 0                         | 8                             | 16    | 10                           | 4         | w.         | William C. Faust.           |                   |
| Chambersville      | Indiana      | 1,047           | 2                       | 69.5                         | +1.9                      | 94              | 4     | 30              | 8     | 48                       | 4.46  | -1.67                     | 1.82                 | 0                         | 12                            | 13    | 4                            | 13        | e.         | John E. Lewis.              |                   |
| Clairton           | Allegheny    | 1,020           | .....                   | 68.2                         | .....                     | 92              | 5     | 36              | 9     | 40                       | 1.48  | .....                     | 0.62                 | 0                         | 10                            | 8     | 15                           | 7         | s.         | Carnegie Steel Co.          |                   |
| Claysville         | Washington   | 1,150           | 27                      | 71.0                         | +2.2                      | 96              | 26    | 34              | 8     | 44                       | 2.69  | -1.82                     | 0.73                 | 0                         | 14                            | 25    | 2                            | 3         | w.         | J. L. Melvin.               |                   |
| Corry              | Erie         | 1,430           | 19                      | 65.8                         | +1.2                      | 90              | 20    | 34              | 8     | 39                       | 3.75  | -1.57                     | 1.18                 | 0                         | 12                            | 20    | 4                            | 6         | s.         | Ass'd Gas & Electric Co.    |                   |
| Coudersport        | Potter       | 1,765           | 8                       | 63.4                         | .....                     | 84              | 15    | 30              | 8     | 42                       | 3.98  | .....                     | 1.24                 | 0                         | 13                            | 2     | 21                           | 7         | w.         | West Penn. Power Co.        |                   |
| Derry              | Westmoreland | 1,172           | 35                      | 68.4                         | -0.1                      | 87              | 25    | 34              | 8     | 38                       | 2.42  | -2.47                     | 0.48                 | 0                         | 11                            | 19    | 6                            | 5         | w.         | Ted R. Wineinan.            |                   |
| Ebensburg          | Cambria      | 2,000           | 15                      | 65.7                         | +1.8                      | 86              | 4     | 32              | 7     | 33                       | 4.06  | -0.64                     | 1.34                 | 0                         | 11                            | 17    | 9                            | 4         | w.         | D. H. Jones.                |                   |
| Elk Lick           | Somerset     | 2,680           | .....                   | .....                        | .....                     | .....           | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | 0                         | .....                         | ..... | .....                        | .....     | .....      | J. S. Stevanus.             |                   |
| Franklin           | Venango      | 957             | 58                      | 67.5                         | +1.7                      | 91              | 15    | 35              | 8     | 42                       | 2.36  | -1.65                     | 0.97                 | 0                         | 12                            | 8     | .....                        | .....     | .....      | Robert A. Fergus.           |                   |
| Greensburg         | Westmoreland | 1,150           | 23                      | 70.3                         | +2.3                      | 90              | 2     | 37              | 8     | 38                       | 2.98  | -1.40                     | 0.68                 | 0                         | 14                            | 8     | 15                           | 6         | w.         | Westmoreland Water Co.      |                   |
| Greenville         | Mercer       | 950             | 36                      | 68.6                         | +2.1                      | 92              | 5     | 35              | 8     | 41                       | 2.36  | -1.62                     | 1.37                 | 0                         | 7                             | 18    | 5                            | 7         | .....      | Charles P. Clarke.          |                   |
| Grove City         | Mercer       | 1,256           | 25                      | 69.4                         | -3.9                      | 89              | 20    | 39              | 8     | 34                       | 1.33  | -2.70                     | 0.50                 | 0                         | 9                             | 18    | 4                            | 8         | n.w.       | Prof. H. W. Harmon.         |                   |
| Johnstown          | Cambria      | 1,184           | 50                      | 71.0                         | +1.8                      | 93              | 6     | 38              | 8     | 41                       | 4.15  | -1.02                     | 1.08                 | 0                         | 11                            | 11    | 16                           | 3         | sw.        | E. C. Lorentz.              |                   |
| Lycippus II        | Westmoreland | 1,420           | 40                      | 69.8                         | +1.6                      | 86              | 2     | 38              | 8     | 33                       | 5.12  | +0.44                     | 0.90                 | 0                         | 12                            | 4     | 12                           | 14        | w.         | Westmoreland Water Co.      |                   |

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

Reference letters, a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow.

If Post-Office addresses are as follows: of Beaver Dam, Beaver; of Elk Lick, Salisbury; of Lycippus, Greensburg; of Neshaminy, Oakford; of Sharon, Farrell; of Shawmont, Manayunk.



## Day of month

Continued on page 29.



## Daily Precipitation for June, 1932—Continued from page 28

| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |   |     |     |    |     |     |     |     |      |      |     |     |     |     |     |     |      |     |      |      |     |     |     |     | Total |  |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|---|-----|-----|----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9   | 10  | 11 | 12  | 13  | 14  | 15  | 16   | 17   | 18  | 19  | 20  | 21  | 22  | 23  | 24   | 25  | 26   | 27   | 28  | 29  | 30  | 31  |       |  |
| Ohio Drainage.  |                |              |     |     |     |     |     |     |   |     |     |    |     |     |     |     |      |      |     |     |     |     |     |     |      |     |      |      |     |     |     |     |       |  |
| Beaver Dam      | Ohio           |              | .03 | .01 |     |     |     | .01 |   |     |     |    | .13 | .03 |     |     | .02  | .05  |     |     | .15 | .09 |     |     |      |     | .03  | .14  | .50 |     | .08 |     | 1.27  |  |
| Beaver Falls    | Beaver         |              | .02 | T.  |     |     |     | T.  |   |     |     |    | .07 | .02 | T.  |     | T.   | .16  |     |     | T.  | .03 |     | .01 |      |     | .01  | .03  | .38 |     |     | .08 | 0.73  |  |
| Bradford        | Allegheny      |              | .08 | .02 | .48 | .75 |     | .03 |   |     |     |    | .06 |     | .03 |     | .26  | .48  |     |     | .18 | .26 |     |     |      |     | .45  | .02  |     |     |     |     | 3.10  |  |
| Brookville      | do             |              |     | .05 | .25 |     | T.  |     |   |     |     |    |     | .25 | .10 | .12 |      | .68  | .14 |     |     | .20 | .25 | .05 |      |     | .25  | .25  | .65 |     |     |     | 3.24  |  |
| Butler          | Ohio           |              | .03 | .29 |     |     |     |     |   |     |     |    | .14 |     |     |     | .50  | .26  |     |     | .41 |     |     |     |      |     | .41  | .50  |     |     | .02 |     | 2.56  |  |
| Chambersville   | Allegheny      |              |     |     | .21 |     |     |     |   |     |     |    | .46 | .20 | .14 |     | .91  | .01  |     |     | T.  | .30 | .10 | .02 |      |     | 1.82 | .27  | .02 |     |     |     | 4.46  |  |
| Clairton        | Monongahela    | T.           | .04 |     |     |     |     | T.  |   |     |     |    | .15 | .20 |     | .01 | .23  | T.   |     | T.  | .05 | T.  |     | .06 |      | T.  | .08  | .62  | T.  |     | .04 |     | 1.48  |  |
| Claysville      | Ohio           |              | .08 |     | .02 |     |     | .20 |   |     |     |    | .15 | .01 |     |     | .46  | .50  | T.  |     | .04 |     | .05 |     | .01  |     | .01  | .73  | .09 |     | .24 |     | 2.59  |  |
| Clymer          | Conemaugh      |              |     |     |     |     |     |     |   |     |     |    | .50 |     | .60 |     |      | .18  |     |     | .16 |     | .15 |     | 1.60 | .95 |      | .20  |     | .15 |     |     | 4.49  |  |
| Confluence      | Youghiogheny   |              |     |     |     |     |     |     |   |     |     |    | .10 | .39 | .70 |     | .77  | .05  |     |     |     | .10 | .22 | T.  | T.   |     |      | .32  | .33 |     | .06 |     | 3.03  |  |
| Corry           | Allegheny      |              | .13 | .24 | .05 | .58 |     | T.  |   |     |     |    |     |     |     |     |      |      |     |     | .04 | .85 | .45 | .02 |      | .05 | .06  | 1.18 | .10 |     |     |     | 3.75  |  |
| Coudersport     | Allegheny      |              | .12 | .36 | .27 | .22 | .22 |     |   |     |     |    | .12 | .50 |     | .08 | 1.24 |      |     |     |     | .04 | .07 |     |      |     | .16  | .58  |     |     |     |     | 3.98  |  |
| Derry           | Conemaugh      |              |     |     |     |     |     |     |   |     |     |    | .48 | .33 | .35 | .03 | .48  |      |     |     | .12 |     | .06 | .07 |      |     | .05  | .37  | .08 |     | T.  |     | 2.42  |  |
| Donora          | Monongahela    |              |     |     |     |     |     | T.  |   |     |     |    | .38 | .01 | .06 |     | .03  | .03  |     |     | T.  |     | .02 | .04 |      |     | T.   | .15  | .45 |     |     |     | 1.17  |  |
| Ebensburg       | Conemaugh      |              |     | .60 | .08 |     |     |     |   |     |     |    | .39 | .12 | .27 |     | .30  | 1.04 |     |     |     | .16 | .35 |     |      |     | T.   | .46  | .29 |     |     |     | 4.06  |  |
| Elk Lick        | Youghiogheny   |              |     |     |     |     |     |     |   |     |     |    |     |     |     |     |      |      |     |     |     |     |     |     |      |     |      |      |     |     |     |     |       |  |
| Falls Creek     | Allegheny      |              | .08 | .45 |     | .33 |     |     |   |     |     |    | .36 | .03 |     |     | .70  | .67  |     |     |     | .44 |     |     |      | .20 | .35  | .18  |     |     |     |     | 3.79  |  |
| Franklin        | Allegheny      |              | .10 | .22 | .06 |     |     |     |   |     |     |    |     | .08 |     |     | .06  | .48  |     |     | .30 | .14 | .18 |     |      |     | .27  | .65  | .32 |     |     |     | 2.86  |  |
| Freeport        | do             |              |     | .47 |     |     | .02 |     |   |     |     |    | .22 | .16 | T.  |     | .25  | .51  |     |     |     | .20 | .01 | T.  |      |     | T.   | .65  | .23 |     | .02 |     | 2.74  |  |
| Greensboro      | Monongahela    |              |     |     |     |     |     | .02 |   |     |     |    | .92 | .30 | .30 |     | .02  | .56  |     |     |     | T.  | T.  | .10 |      |     |      | .27  | .46 |     | T.  |     | 2.95  |  |
| Greensburg      | Youghiogheny   |              |     | T.  | .68 | T.  | T.  |     |   |     |     |    | .64 | .08 | .10 | .27 | .21  | .01  |     |     | T.  | .14 | .10 |     | .02  |     |      | .18  | .45 | .02 |     | .08 | 2.98  |  |
| Greenville      | Beaver         | .08          | T.  | .18 |     |     |     | T.  |   |     |     |    | T.  |     |     |     | .05  |      |     |     | .09 |     |     |     |      | .28 | .31  | 1.37 |     |     |     |     | 2.36  |  |
| Grove City      | do             |              | .06 |     |     |     |     |     |   |     |     |    | .05 |     |     |     | .09  | .05  |     |     |     | .01 |     |     |      | .07 | .45  | .50  | .05 |     |     |     | 1.33  |  |
| Herrs Isl. Dam  | Ohio           |              | .13 | .07 |     |     |     | T.  |   |     |     |    | .20 | .02 | T.  |     | .02  | .02  |     |     |     | .04 | .42 |     | T.   |     |      | .45  | .07 | .12 |     | .34 | 1.45  |  |
| Ingram          | Ohio           | .01          |     | T.  |     |     | T.  | T.  |   |     |     |    | .22 | .01 |     |     | .19  |      |     |     | T.  | T.  | T.  |     | T.   |     | .03  | .22  |     |     | .05 |     | 0.73  |  |
| Irwin           | Monongahela    | T.           |     | .05 | .05 | .24 | .09 |     |   |     |     |    | .51 | .03 | .10 | .35 | .04  | .20  |     | .03 | T.  | .08 |     | .02 |      |     | .08  | .68  | .01 |     | .12 |     | 2.68  |  |
| Johnstown       | Conemaugh      |              | .41 |     |     | .04 | .39 |     |   |     |     |    | .57 | .63 |     | .06 | 1.08 | .23  |     |     |     | .31 |     |     |      |     | .09  | .34  |     |     |     |     | 4.15  |  |
| Kregar          | Youghiogheny   |              | .05 |     | .03 |     | .05 |     |   |     |     |    | .43 | .88 | .09 | .67 | 1.00 | .10  |     |     | .21 | .01 |     | .04 |      |     | .36  | .23  |     | .05 |     |     | 4.20  |  |
| Lake Lynn       | Monongahela    |              |     | .02 |     |     |     |     |   |     |     |    | .60 | .38 | .44 |     |      |      |     |     |     | .05 | .05 | .10 | .15  |     |      | .12  | .86 |     |     |     | 3.64  |  |
| Linesville      | Beaver         |              |     | .12 | .05 |     |     | .02 |   |     |     |    |     |     |     |     | T.   | .05  | .09 |     |     | .05 | .22 |     |      |     | .50  | .69  | .39 |     |     |     | 2.18  |  |
| Lock No. 2      | Ohio           |              | .01 | .06 |     |     |     |     |   |     |     |    | .15 | .06 |     |     | .27  |      |     |     | .08 |     |     |     |      |     | .02  | .25  | .25 |     |     |     | 1.10  |  |
| Lock No. 4      | Monongahela    |              |     | T.  |     |     |     |     |   |     |     |    | .30 | .11 | .06 |     | .01  |      | .08 |     |     |     | .14 | .05 |      |     |      | .12  | .51 |     | .03 |     | 1.71  |  |
| Lycippus        | Conemaugh      |              |     |     | .50 | .70 |     |     |   |     |     |    | .45 | .90 | .10 | .76 | .23  | T.   |     |     | .36 |     |     |     | .13  |     | .38  | .47  |     |     | .14 |     | 5.12  |  |
| McKeesport      | Monongahela    |              |     | T.  | .01 |     |     | .05 |   |     |     |    | .25 | T.  | .03 |     | T.   | .04  |     |     |     | .12 | .15 |     | .02  |     |      | .29  | .24 |     | .04 |     | 1.24  |  |
| Meadville       | Allegheny      | .08          |     | .16 |     |     |     | T.  |   |     | .01 |    | .01 |     |     |     | .02  |      |     |     |     | .78 |     | .03 | .15  |     | .35  | 1.57 |     |     |     |     | 3.16  |  |
| Mount Lebanon   | Ohio           | .01          |     |     |     |     | .14 | T.  |   |     |     |    | .23 | .01 | T.  | T.  | .23  |      |     |     |     | .84 |     |     | .03  |     | .70  | .39  | T.  |     | .10 |     | 2.68  |  |
| Natrona         | Allegheny      |              |     | .13 |     |     | T.  |     |   |     |     |    | .25 | .15 | .02 |     | .01  | .42  |     |     | .03 | .05 |     |     |      |     | .13  | .16  |     |     |     |     | 1.35  |  |
| New Castle      | Beaver         |              | .08 |     | T.  |     | .01 | T.  |   | T.  |     |    | T.  | .03 |     |     | T.   | 1.00 | .12 | .02 |     | .38 | .13 | .14 |      |     | .84  | 1.05 | .02 | .02 |     |     | 3.84  |  |
| Newell          | Monongahela    |              |     |     |     | .20 |     |     |   |     |     |    |     |     | .37 |     | T.   | .26  |     |     |     | .09 |     |     |      |     | .68  |      |     |     | .07 |     | 1.67  |  |
| Parkers Landing | Allegheny      |              | T.  | .86 |     |     |     | T.  |   |     |     |    | T.  | .11 |     |     | T.   | .10  | T.  |     |     | T.  | .53 | T.  |      |     | .47  | .45  | .67 |     |     |     | 3.19  |  |
| Pennline        | Beaver         |              | .14 | .22 |     |     |     | .04 |   |     |     |    | .23 | .01 |     |     | .22  | .01  | .44 |     |     | .02 | .48 | .01 |      | .05 | .53  | T.   | .23 |     |     |     | 2.37  |  |
| Pittsburgh      | Ohio           | T.           | T.  | T.  |     |     | .02 | T.  |   |     |     |    | .23 | .01 |     | .03 | .02  | T.   |     | T.  | .29 | T.  |     | T.  |      | T.  | T.   | .16  |     |     | .02 |     | 0.78  |  |
| Punxsutawney    | Allegheny      |              | .46 |     | T.  |     |     |     |   |     |     |    | T.  | .37 | .07 |     | T.   | .61  | T.  |     |     | .93 | .81 |     |      |     | .91  | 1.01 |     |     |     |     | 5.17  |  |
| Ridgway         | do             |              | .04 | .27 |     | .50 |     |     |   | .03 |     |    | .17 | .09 |     |     | .06  | .18  |     |     |     |     | .25 | .08 |      |     | .30  | .29  | .17 |     | .01 |     | 2.44  |  |
| Saltsburg       | Conemaugh      |              |     | .01 |     | .52 |     |     |   |     |     |    | .25 | .22 | .11 |     | .03  | .03  |     |     |     | .01 | T.  |     |      |     |      | .39  | .36 |     |     | .01 | 1.94  |  |
| Sharon          | Beaver         |              | .16 | .44 |     |     |     | .01 |   |     |     |    |     |     |     |     | .67  | .01  |     |     |     | .18 |     |     |      |     | .41  | .10  | .20 |     |     |     | 2.18  |  |
| Smethport       | Allegheny      |              | .06 | .55 | .09 | .07 | T.  |     |   | .07 |     |    | .09 | .07 |     |     | .03  | 1.75 |     |     | T.  | T.  | .25 | .09 |      |     |      | .55  | .10 |     |     |     | 3.77  |  |
| Somerset        | Youghiogheny   |              |     | .01 |     |     | T.  |     |   |     |     |    | .40 | .24 | .25 | T.  | .57  | .05  | .10 | .19 |     | T.  | .14 | T.  |      |     | .03  | .26  | .19 |     |     |     | 2.43  |  |
| Springdale      | Allegheny      |              | .01 | .02 |     |     |     |     |   |     |     |    | .29 | .07 | .02 |     | .01  | .55  |     |     |     | .90 |     | .01 |      | T.  | .05  | .14  |     |     |     |     | 2.07  |  |
| Uniontown       | Monongahela    |              |     |     |     | .26 | T.  |     |   |     |     |    | .75 | .38 | .07 |     | .21  | .30  |     |     | T.  |     | .30 | .06 |      |     | .22  | .35  | .02 |     | .36 |     | 3.28  |  |
| Unity Reservoir | Youghiogheny   |              |     | .25 | .75 |     |     |     |   |     |     |    | .55 | .06 | .15 | .42 | .60  | .05  |     |     |     | .08 |     | .03 |      |     | .22  | .54  |     |     | .10 |     | 3.75  |  |
| Vandergrift     | Conemaugh      |              |     |     |     |     |     |     |   |     |     |    |     |     | .53 | .16 |      |      |     |     |     | .07 |     |     |      |     |      | .48  |     |     |     |     | 1.24  |  |
| Warren          | Allegheny      |              | .40 |     | .12 | .03 |     |     |   |     |     |    | .08 |     |     |     | .04  | .03  |     | .30 | .65 | .60 | .10 |     |      |     | .12  | 1.32 | .40 |     | .02 |     | 4.21  |  |
| Waynesburg      | Monongahela    |              |     |     |     | .22 |     |     |   |     |     |    | .56 | .08 |     |     | 1.38 | .22  |     |     |     |     | .18 |     |      |     | .26  | .44  |     |     | .82 |     | 4.36  |  |
| Westford        | Beaver         | .16          | .04 |     |     |     | .02 |     |   |     |     |    |     |     |     | .27 | .04  | .40  |     |     | .02 | .16 | .48 | .02 |      | .60 | .16  | .94  |     |     |     |     | 3.31  |  |
| West Newton     | Youghiogheny   |              |     |     |     | .08 |     |     |   |     |     |    | .24 | .20 | .13 |     | .04  |      |     | .05 |     | .13 | .07 |     |      |     | .10  | .53  |     | .03 |     |     | 1.60  |  |
| Lake Drainage.  |                |              |     |     |     |     |     |     |   |     |     |    |     |     |     |     |      |      |     |     |     |     |     |     |      |     |      |      |     |     |     |     |       |  |
| Erie            | Lake Erie      | .12          | .32 |     |     |     |     |     |   |     |     |    |     | T.  |     |     |      |      |     |     | T.  | .39 | .03 |     |      | .13 | .01  | .18  |     | .02 |     |     | 1.20  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah † Mdt



## Daily Temperatures for June, 1932

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum | 83 | 75 | 82 | 88 | 87 | 71 | 65 | 75 | 74 | 78 | 64 | 64 | 72 | 82 | 82 | 76 | 72 | 64 | 71 | 79 | 86 | 79 | 75 | 81 | 90 | 88 | 86 | 88 | 86 | 86   | 78.2 |      |
|                    | Minimum | 54 | 61 | 61 | 62 | 62 | 66 | 64 | 89 | 43 | 51 | 45 | 55 | 45 | 59 | 61 | 66 | 63 | 60 | 50 | 56 | 64 | 65 | 65 | 51 | 58 | 61 | 67 | 70 | 60 | 64   | 58.1 |      |
| Altoona.....       | Maximum | 81 | 78 | 86 | 91 | 91 | 85 | 78 | 69 | 76 | 78 | 76 | 69 | 62 | 81 | 83 | 75 | 77 | 72 | 69 | 76 | 86 | 83 | 78 | 73 | 86 | 89 | 79 | 83 | 80 | 83   | 79.1 |      |
|                    | Minimum | 48 | 55 | 59 | 58 | 59 | 62 | 59 | 32 | 38 | 44 | 43 | 51 | 53 | 59 | 53 | 61 | 59 | 60 | 59 | 60 | 64 | 59 | 59 | 38 | 50 | 63 | 64 | 67 | 54 | 60   | 55.0 |      |
| Bedford.....       | Maximum | 88 | 85 | 88 | 91 | 91 | 89 | 86 | 74 | 78 | 82 | 78 | 78 | 64 | 83 | 87 | 79 | 78 | 82 | 69 | 75 | 88 | 86 | 85 | 77 | 92 | 91 | 87 | 85 | 84 | 89   | 83.0 |      |
|                    | Minimum | 41 | 56 | 60 | 56 | 58 | 63 | 63 | 35 | 35 | 40 | 44 | 56 | 55 | 61 | 56 | 62 | 59 | 64 | 59 | 62 | 61 | 61 | 62 | 41 | 47 | 75 | 68 | 68 | 53 | 65   | 56.2 |      |
| Bellefonte.....    | Maximum | 81 | 76 | 83 | 88 | 87 | 86 | 69 | 66 | 73 | 76 | 76 | 62 | 64 | 80 | 84 | 81 | 78 | 76 | 67 | 78 | 86 | 84 | 75 | 74 | 84 | 88 | 80 | 83 | 80 | 85   | 78.3 |      |
|                    | Minimum | 45 | 59 | 60 | 55 | 57 | 62 | 39 | 31 | 35 | 41 | 38 | 51 | 55 | 53 | 53 | 62 | 61 | 61 | 59 | 62 | 64 | 62 | 51 | 40 | 50 | 62 | 62 | 61 | 52 | 59   | 53.7 |      |
| Brookville.....    | Maximum | 79 | 82 | 83 | 77 | 89 | 89 | 89 | 70 | 66 | 74 | 76 | 81 | 61 | 61 | 82 | 87 | 81 | 82 | 80 | 81 | 86 | 85 | 85 | 73 | 74 | 80 | 84 | 78 | 81 | 80   | 79.2 |      |
|                    | Minimum | 42 | 42 | 56 | 43 | 53 | 53 | 57 | 30 | 29 | 36 | 35 | 36 | 46 | 44 | 39 | 45 | 60 | 51 | 60 | 59 | 56 | 58 | 57 | 36 | 33 | 49 | 57 | 67 | 51 | 47   | 47.6 |      |
| Butler.....        | Maximum | 82 | 87 | 89 | 89 | 91 | 88 | 89 | 68 | 70 | 79 | 81 | 78 | 71 | 86 | 88 | 84 | 85 | 81 | 88 | 81 | 84 | 85 | 81 | 72 | 85 | 85 | 86 | 85 | 84 | 85   | 82.9 |      |
|                    | Minimum | 45 | 58 | 56 | 57 | 60 | 66 | 57 | 33 | 35 | 39 | 42 | 55 | 53 | 61 | 51 | 64 | 60 | 58 | 59 | 55 | 60 | 60 | 60 | 39 | 52 | 62 | 65 | 64 | 49 | 64   | 54.6 |      |
| Carlisle.....      | Maximum | 83 | 82 | 86 | 95 | 98 | 86 | 84 | 76 | 78 | 84 | 84 | 82 | 66 | 88 | 83 | 83 | 73 | 79 | 75 | 72 | 86 | 86 | 85 | 80 | 94 | 88 | 84 | 86 | 90 | 93   | 84.3 |      |
|                    | Minimum | 49 | 64 | 56 | 58 | 60 | 66 | 65 | 35 | 38 | 43 | 45 | 56 | 56 | 64 | 61 | 69 | 63 | 60 | 63 | 63 | 68 | 63 | 65 | 62 | 52 | 63 | 68 | 66 | 62 | 59   | 58.7 |      |
| Catawissa.....     | Maximum | 92 | 82 | 89 | 88 | 93 | 93 | 84 | 72 | 79 | 82 | 85 | 74 | 63 | 86 | 89 | 89 | 80 | 80 | 73 | 81 | 88 | 88 | 79 | 80 | 84 | 93 | 85 | 91 | 89 | 93   | 84.3 |      |
|                    | Minimum | 48 | 60 | 58 | 55 | 60 | 59 | 55 | 35 | 38 | 47 | 45 | 42 | 55 | 57 | 63 | 64 | 63 | 55 | 59 | 63 | 62 | 65 | 56 | 46 | 47 | 50 | 67 | 66 | 57 | 64   | 55.4 |      |
| Chambersburg.....  | Maximum | 90 | 89 | 88 | 95 | 96 | 92 | 83 | 76 | 83 | 87 | 82 | 70 | 55 | 52 | 56 | 60 | 63 | 59 | 62 | 66 | 66 | 66 | 66 | 48 | 53 | 63 | 68 | 69 | 58 | 67   | 58.2 |      |
|                    | Minimum | 49 | 63 | 59 | 58 | 60 | 65 | 64 | 38 | 43 | 47 | 47 | 55 | 52 | 56 | 60 | 63 | 58 | 82 | 85 | 90 | 91 | 87 | 85 | 78 | 92 | 90 | 78 | 85 | 83 | 87   | 84.8 |      |
| Chambersville..... | Maximum | 86 | 89 | 90 | 94 | 91 | 90 | 78 | 74 | 81 | 82 | 84 | 75 | 78 | 85 | 88 | 88 | 82 | 82 | 85 | 90 | 91 | 87 | 89 | 84 | 81 | 90 | 96 | 79 | 87 | 89   | 85.7 |      |
|                    | Minimum | 47 | 57 | 59 | 57 | 55 | 61 | 56 | 30 | 33 | 38 | 45 | 55 | 55 | 61 | 52 | 61 | 60 | 59 | 63 | 58 | 61 | 60 | 57 | 35 | 48 | 61 | 67 | 65 | 48 | 63   | 54.2 |      |
| Claysville.....    | Maximum | 86 | 90 | 89 | 92 | 94 | 93 | 79 | 74 | 80 | 83 | 87 | 81 | 73 | 88 | 88 | 77 | 82 | 86 | 89 | 91 | 87 | 89 | 84 | 81 | 90 | 96 | 79 | 87 | 89 | 85.7 |      |      |
|                    | Minimum | 49 | 54 | 62 | 58 | 60 | 65 | 57 | 34 | 36 | 40 | 49 | 57 | 58 | 61 | 55 | 57 | 57 | 60 | 59 | 60 | 64 | 61 | 61 | 38 | 47 | 71 | 70 | 68 | 52 | 63   | 56.3 |      |
| Clearfield.....    | Maximum | 86 | 84 | 90 | 91 | 94 | 94 | 78 | 72 | 76 | 80 | 84 | 76 | 66 | 84 | 81 | 81 | 61 | 60 | 61 | 63 | 65 | 60 | 56 | 38 | 51 | 64 | 63 | 66 | 53 | 50   | 54.2 |      |
|                    | Minimum | 45 | 59 | 58 | 56 | 60 | 63 | 56 | 32 | 36 | 40 | 42 | 40 | 42 | 50 | 54 | 54 | 51 | 62 | 61 | 60 | 61 | 63 | 65 | 60 | 56 | 38 | 51 | 64 | 63 | 66   | 53   | 54.2 |
| Coatesville.....   | Maximum | 87 | 85 | 83 | 90 | 91 | 90 | 77 | 70 | 79 | 78 | 80 | 66 | 68 | 77 | 85 | 84 | 84 | 75 | 67 | 74 | 83 | 89 | 82 | 78 | 88 | 93 | 91 | 88 | 86 | 89   | 91.9 |      |
|                    | Minimum | 54 | 64 | 58 | 63 | 66 | 67 | 55 | 42 | 47 | 49 | 58 | 56 | 61 | 62 | 65 | 64 | 59 | 57 | 62 | 62 | 62 | 65 | 66 | 47 | 55 | 66 | 67 | 69 | 64 | 64   | 59.6 |      |
| Corry.....         | Maximum | 79 | 85 | 86 | 87 | 86 | 85 | 71 | 66 | 70 | 75 | 82 | 69 | 71 | 80 | 85 | 85 | 83 | 87 | 81 | 90 | 81 | 81 | 67 | 67 | 77 | 76 | 75 | 71 | 76 | 78   | 79.6 |      |
|                    | Minimum | 48 | 55 | 55 | 61 | 59 | 52 | 52 | 34 | 42 | 45 | 43 | 41 | 40 | 47 | 53 | 59 | 60 | 59 | 59 | 62 | 64 | 61 | 46 | 34 | 53 | 57 | 63 | 55 | 47 | 50   | 51.9 |      |
| Coudersport.....   | Maximum | 79 | 76 | 83 | 83 | 83 | 82 | 65 | 62 | 69 | 72 | 77 | 62 | 62 | 78 | 84 | 84 | 79 | 78 | 76 | 84 | 83 | 84 | 68 | 69 | 71 | 84 | 75 | 78 | 78 | 79   | 76.2 |      |
|                    | Minimum | 39 | 53 | 54 | 52 | 57 | 58 | 48 | 30 | 35 | 41 | 35 | 42 | 52 | 57 | 50 | 59 | 50 | 56 | 59 | 64 | 58 | 44 | 33 | 45 | 59 | 66 | 58 | 49 | 53 | 50.5 |      |      |
| Emporium.....      | Maximum | 80 | 79 | 85 | 84 | 85 | 84 | 71 | 64 | 71 | 73 | 77 | 67 | 63 | 79 | 83 | 73 | 81 | 78 | 75 | 83 | 84 | 82 | 73 | 71 | 75 | 83 | 80 | 80 | 79 | 82   | 77.5 |      |
|                    | Minimum | 46 | 58 | 60 | 60 | 62 | 62 | 53 | 34 | 38 | 43 | 41 | 49 | 56 | 61 | 53 | 63 | 63 | 56 | 62 | 65 | 68 | 62 | 50 | 37 | 48 | 63 | 69 | 64 | 53 | 59   | 55.3 |      |
| Erie.....          | Maximum | 74 | 82 | 77 | 80 | 80 | 79 | 64 | 61 | 67 | 70 | 69 | 70 | 66 | 72 | 78 | 74 | 80 | 84 | 82 | 86 | 81 | 81 | 67 | 67 | 77 | 76 | 75 | 71 | 76 | 78   | 74.8 |      |
|                    | Minimum | 59 | 61 | 66 | 66 | 64 | 64 | 52 | 46 | 52 | 54 | 53 | 58 | 56 | 59 | 58 | 64 | 62 | 64 | 64 | 64 | 67 | 63 | 56 | 50 | 56 | 63 | 66 | 62 | 58 | 61   | 59.6 |      |
| Franklin.....      | Maximum | 78 | 86 | 87 | 88 | 90 | 86 | 70 | 69 | 75 | 78 | 85 | 65 | 71 | 85 | 91 | 83 | 90 | 82 | 87 | 89 | 87 | 73 | 77 | 74 | 74 | 90 | 79 | 82 | 85 | 88   | 81.5 |      |
|                    | Minimum | 47 | 56 | 50 | 57 | 58 | 60 | 56 | 35 | 39 | 42 | 43 | 51 | 54 | 58 | 50 | 53 | 61 | 56 | 60 | 59 | 63 | 54 | 38 | 57 | 59 | 56 | 69 | 58 | 50 | 55   | 53.5 |      |
| Freeland.....      | Maximum | 81 | 73 | 81 | 85 | 82 | 82 | 73 | 63 | 72 | 71 | 76 | 67 | 62 | 74 | 84 | 80 | 69 | 73 | 71 | 75 | 76 | 81 | 75 | 70 | 75 | 84 | 81 | 80 | 76 | 80   | 75.7 |      |
|                    | Minimum | 57 | 57 | 56 | 59 | 63 | 62 | 49 | 35 | 45 | 49 | 45 | 51 | 52 | 56 | 62 | 63 | 61 | 54 | 53 | 56 | 58 | 61 | 54 | 43 | 52 | 63 | 64 | 64 | 58 | 61   | 55.4 |      |
| Gettysburg.....    | Maximum | 87 | 86 | 86 | 91 | 91 | 90 | 84 | 73 | 80 | 80 | 80 | 76 | 68 | 81 | 83 | 77 | 79 | 74 | 69 | 72 | 84 | 88 | 85 | 79 | 91 | 92 | 88 | 89 | 86 | 89   | 82.6 |      |
|                    | Minimum | 52 | 63 | 60 | 60 | 62 | 66 | 65 | 41 | 45 | 49 | 52 | 56 | 64 | 66 | 64 | 66 | 60 | 62 | 59 | 62 | 66 | 64 | 65 | 49 | 54 | 78 | 69 | 70 | 63 | 66   | 60.3 |      |
| Greensburg.....    | Maximum | 84 | 90 | 89 | 87 | 90 | 87 | 81 | 71 | 76 | 80 | 81 | 75 | 79 | 83 | 85 | 81 | 80 | 79 | 85 | 90 | 88 | 89 | 82 | 76 | 89 | 90 | 76 | 83 | 82 | 86   | 83.1 |      |
|                    | Minimum | 50 | 59 | 63 | 63 | 60 | 65 | 58 | 37 | 40 | 44 | 50 | 56 | 58 | 62 | 57 | 61 | 61 | 60 | 61 | 60 | 62 | 63 | 60 | 42 | 51 | 69 | 68 | 68 | 64 | 63   | 57.5 |      |
| Grove City.....    | Maximum | 78 | 85 | 85 | 87 | 86 | 83 | 83 | 67 | 70 | 77 | 82 | 78 | 68 | 81 | 87 | 84 | 86 | 82 | 86 | 89 | 82 | 83 | 83 | 74 | 78 | 82 | 74 | 78 | 79 | 84   | 80.7 |      |
|                    | Minimum | 54 | 59 | 61 | 61 | 59 | 65 | 56 | 39 | 44 | 45 | 48 | 55 | 58 | 59 | 67 | 63 | 60 | 60 | 61 | 64 | 63 | 58 | 41 | 56 | 65 | 69 | 61 | 65 | 65 | 65   | 58.0 |      |
| Hamburg.....       | Maximum | 85 | 80 | 84 | 89 | 89 | 88 | 87 | 67 | 70 | 76 | 80 | 76 | 63 | 75 | 84 | 83 | 81 | 72 | 68 | 70 | 78 | 87 | 88 | 84 | 82 | 82 | 83 | 82 | 88 | 91   | 80.4 |      |
|                    | Minimum | 49 | 57 | 60 | 62 | 63 | 64 | 61 | 35 | 38 | 44 | 50 | 43 | 47 | 59 | 66 | 53 | 52 | 47 | 48 | 64 | 65 | 44 | 50 | 58 | 60 | 62 | 60 | 62 | 59 | 66   | 54.5 |      |
| Harrisburg.....    | Maximum | 85 | 84 | 84 | 90 | 90 | 87 | 75 | 69 | 76 | 78 | 77 | 67 | 66 | 78 | 80 | 80 | 78 | 76 | 68 | 71 | 84 | 87 | 78 | 76 | 88 | 92 | 86 | 86 | 85 | 88   | 80.3 |      |
|                    | Minimum | 60 | 63 | 63 | 64 | 66 | 68 | 62 | 45 | 48 | 55 | 52 | 55 | 56 | 63 | 67 | 65 | 65 | 61 | 60 | 63 | 64 | 67 | 64 | 56 | 60 | 67 | 70 | 70 | 66 | 67   | 61.4 |      |
| Hawley.....        | Maximum | 82 | 80 | 83 | 85 | 88 | 86 | 81 | 63 | 71 | 70 | 79 | 78 | 61 | 73 | 86 | 80 | 73 | 75 | 72 | 81 | 79 | 84 | 83 | 73 | 72 | 82 | 84 | 83 | 82 | 84   | 78.4 |      |
|                    | Minimum | 43 | 57 | 56 | 54 | 54 | 58 | 55 | 32 | 36 | 47 | 34 | 41 | 53 | 51 | 53 | 61 | 62 | 52 | 49 | 58 | 52 | 61 | 54 | 40 | 42 | 60 | 64 | 64 | 51 | 57   | 51.7 |      |
| Huntingdon.....    | Maximum | 87 | 81 | 90 | 89 | 94 | 92 | 81 | 72 | 74 | 81 | 80 | 74 | 67 | 84 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVII.

JULY, 1932.

No. 7.

GENERAL SUMMARY.

The mean temperature for the month was exactly the same as the July normal, and there were no unusual extremes. The rainfall averaged slightly more than three-fourths of the July normal, the shortage occurring during the second and third weeks. The rainfall was less than three inches in nearly one-half of the State. This shortage followed an equal deficiency for June, and resulted in a drought condition that stunted the growth of most crops. The subsoil became dry, and light to moderate showers furnished little relief because the moisture quickly disappeared by seepage and evaporation. Wheat harvest was practically finished during the first week. A large portion of the crop was threshed before the end of the month with only moderate yields. Corn generally made a good growth, being little affected by the drought excepting the driest regions. However, it was apparent at the close of the month that good soaking rains were needed immediately to insure a proper earing of the crop. Oats was badly stunted by the drought, and developed short straw in nearly all parts of the State. There were very few really good fields, while a large part of the crop was too short for binding, and it was reported that such fields were being mowed for hay. Grasslands suffered severely from the drought. Pastures generally became short and weedy, and turned brown in some sections, while the second crop of hay made a poor showing. More or less relief was afforded in the greater portion of the State by heavy thundershowers at the beginning of the fourth week, but the run-off was generally so heavy that the moisture did not reach the subsoil to any extent. Tobacco made a poor growth. It was set out in the fields at about the time that the drought got well under way. At the close of the month it seemed to be the poorest crop for many years. There were about the usual number of severe local storms during the month. A small tornado passed over the town of Freeland on the 2d, doing considerable damage with no loss of life. Its path was about six miles in length, and ended near the mining village of Eckley. On July 1st a severe thunderstorm did considerable damage in Carlisle and vicinity. On the 15th a damaging thunderstorm passed over the Pittsburgh region. Many buildings were struck by lightning, and many fires resulted. Hail did much damage in the Scranton region on the 17th, breaking thousand of windows. The hailstones were large enough in some instances to penetrate the tops of automobiles. Many severe thunderstorms were reported in the central and eastern portions of the State from the 20th to 22d inclusive. They brought much needed rain, but their benefits were largely offset by the resulting damage from wind and lightning.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 72.0°, which is just normal. The highest monthly mean was 79.2° at Marcus Hook, and the lowest was 59.6° at Gouldsboro. The highest temperature recorded was 100°, at Lewisburg on the 1st and 14th, and at Carlisle, Lock Haven and Sharon on the 19th. The lowest temperature recorded was 36° at Kane on the 3d. The greatest daily range in temperature was 47° at Hyndman on the 7th, Lykens on the 19th, Butler on the 24th, Wellsboro and Bradford on the 25th, and at Brookville on the 26th.

PRECIPITATION.

The average precipitation for the State, as deduced from the observations taken 146 well-distributed stations, was 3.39 inches, which is 0.90 inch below the normal for the month. The greatest monthly amount was 9.65 inches at Confluence, and the least was 0.85 inch at Sunbury. The greatest amount recorded in any 24 consecutive hours was 2.93 inches at Confluence on the 22d.

COMPARATIVE DATA FOR JULY

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 69.2        | 97      | 38     | 3.45          | 7.10     | 1.40  | .....       | .....         | .....  | .....                  |
| 1889.....                | 71.6        | 96      | 39     | 6.80          | 15.02    | 1.04  | .....       | .....         | .....  | .....                  |
| 1890.....                | 70.7        | 101     | 33     | 3.52          | 6.40     | 0.70  | 13          | 11            | 7      | 8                      |
| 1891.....                | 67.8        | 97      | 34     | 6.32          | 11.61    | 2.63  | 11          | 10            | 10     | 13                     |
| 1892.....                | 73.1        | 103     | 38     | 3.93          | 8.59     | 2.15  | 15          | 11            | 5      | 10                     |
| 1893.....                | 72.1        | 102     | 36     | 3.15          | 6.27     | 1.58  | 15          | 12            | 4      | 10                     |
| 1894.....                | 73.8        | 103     | 31     | 2.32          | 5.96     | 0.53  | 15          | 11            | 5      | 7                      |
| 1895.....                | 69.1        | 102     | 34     | 3.24          | 6.18     | 1.16  | 12          | 12            | 7      | 9                      |
| 1896.....                | 72.8        | 98      | 40     | 6.89          | 15.59    | 3.04  | 10          | 11            | 10     | 14                     |
| 1897.....                | 73.4        | 103     | 41     | 6.26          | 14.51    | 2.10  | 10          | 11            | 10     | 14                     |
| 1898.....                | 74.8        | 107     | 33     | 3.36          | 6.29     | 1.15  | 12          | 12            | 7      | 9                      |
| 1899.....                | 72.8        | 101     | 35     | 3.91          | 8.24     | 1.53  | 12          | 11            | 8      | 10                     |
| 1900.....                | 74.0        | 104     | 35     | 4.86          | 8.26     | 1.81  | 14          | 12            | 5      | 11                     |
| 1901.....                | 76.4        | 107     | 45     | 3.88          | 7.34     | 1.52  | 10          | 13            | 8      | 11                     |
| 1902.....                | 71.8        | 99      | 41     | 6.04          | 12.35    | 2.11  | 10          | 12            | 9      | 15                     |
| 1903.....                | 71.2        | 98      | 35     | 5.36          | 8.81     | 1.76  | 13          | 12            | 6      | 12                     |
| 1904.....                | 70.6        | 99      | 34     | 4.68          | 9.19     | 1.92  | 12          | 11            | 8      | 13                     |
| 1905.....                | 72.6        | 99      | 39     | 4.87          | 9.78     | 2.49  | 10          | 12            | 9      | 15                     |
| 1906.....                | 71.3        | 95      | 38     | 4.31          | 8.98     | 1.41  | 12          | 13            | 6      | 10                     |
| 1907.....                | 71.5        | 96      | 34     | 3.84          | 9.46     | 1.01  | 15          | 12            | 4      | 10                     |
| 1908.....                | 73.9        | 104     | 39     | 4.81          | 9.57     | 2.15  | 14          | 12            | 5      | 11                     |
| 1909.....                | 69.7        | 98      | 34     | 2.14          | 4.50     | 0.75  | 16          | 11            | 4      | 7                      |
| 1910.....                | 72.8        | 99      | 41     | 2.42          | 5.15     | 0.45  | 16          | 11            | 4      | 7                      |
| 1911.....                | 73.7        | 105     | 36     | 2.81          | 7.41     | 0.90  | 16          | 11            | 4      | 8                      |
| 1912.....                | 71.3        | 100     | 36     | 5.29          | 12.65    | 1.04  | 12          | 11            | 8      | 11                     |
| 1913.....                | 71.8        | 101     | 40     | 4.16          | 8.00     | 0.82  | 15          | 10            | 6      | 11                     |
| 1914.....                | 71.3        | 101     | 38     | 4.19          | 10.29    | 1.10  | 12          | 11            | 8      | 12                     |
| 1915.....                | 70.7        | 98      | 40     | 5.28          | 12.30    | 1.82  | 10          | 13            | 8      | 15                     |
| 1916.....                | 74.3        | 98      | 41     | 4.45          | 12.41    | 0.39  | 14          | 10            | 7      | 10                     |
| 1917.....                | 72.1        | 105     | 40     | 4.33          | 9.76     | 1.90  | 12          | 12            | 7      | 13                     |
| 1918.....                | 70.1        | 99      | 35     | 3.05          | 9.96     | 0.77  | 16          | 10            | 5      | 9                      |
| 1919.....                | 72.6        | 104     | 34     | 5.90          | 14.58    | 1.70  | 16          | 8             | 7      | 11                     |
| 1920.....                | 69.5        | 96      | 33     | 4.37          | 10.70    | 1.27  | 15          | 10            | 6      | 11                     |
| 1921.....                | 75.9        | 104     | 45     | 4.13          | 9.19     | 1.23  | 19          | 9             | 3      | 10                     |
| 1922.....                | 71.9        | 98      | 38     | 3.68          | 7.58     | 1.45  | 14          | 10            | 7      | 9                      |
| 1923.....                | 71.0        | 100     | 32     | 4.24          | 9.86     | 0.92  | 15          | 9             | 7      | 11                     |
| 1924.....                | 69.7        | 97      | 34     | 3.42          | 7.12     | 0.71  | 17          | 10            | 4      | 9                      |
| 1925.....                | 70.5        | 101     | 32     | 5.57          | 14.95    | 1.54  | 13          | 11            | 7      | 12                     |
| 1926.....                | 71.8        | 105     | 35     | 3.82          | 10.63    | 1.14  | 15          | 9             | 7      | 10                     |
| 1927.....                | 71.7        | 100     | 29     | 4.97          | 11.82    | 1.81  | 14          | 11            | 6      | 12                     |
| 1928.....                | 72.8        | 96      | 40     | 5.44          | 11.81    | 2.37  | 16          | 9             | 6      | 13                     |
| 1929.....                | 71.8        | 99      | 33     | 2.81          | 6.97     | 0.19  | 18          | 9             | 4      | 8                      |
| 1930.....                | 73.0        | 106     | 33     | 2.23          | 6.46     | 0.17  | 19          | 8             | 4      | 7                      |
| 1931.....                | 75.2        | 105     | 39     | 5.28          | 13.28    | 1.81  | 15          | 10            | 6      | 12                     |
| 1932.....                | 72.0        | 100     | 36     | 3.39          | 9.65     | 0.85  | 16          | 10            | 5      | 10                     |
| Normal and Extremes..... | 72.0        | 107     | 29     | 4.29          | 15.59    | 0.17  | 14          | 11            | 6      | 11                     |



## Climatological Data for July, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Allentown          | Lehigh       | 254             | 20                      | 72.5                         | .....                     | 92      | 19   | 52     | 25†  | 33                       | 2.09  | -2.69                     | 0.51                 | 0                         | 11                           | 18    | 6                            | 7         | sw.        | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 70.3                         | -0.5                      | 92      | 19   | 47     | 5    | 37                       | 3.84  | +0.30                     | 1.35                 | 0                         | 12                           | 19    | 9                            | 3         | w.         | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | .....                   | 74.5                         | +0.6                      | 94      | 1    | 58     | 5†   | 30                       | 2.22  | -2.07                     | 1.43                 | 0                         | 6                            | ..... | .....                        | .....     | .....      | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 73.9                         | .....                     | 98      | 1    | 51     | 31   | 38                       | 3.63  | .....                     | 1.25                 | 0                         | 10                           | 21    | 6                            | 4         | nw.        | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | .....                   | 73.0                         | .....                     | 94      | 13†  | 47     | 25   | 40                       | 4.67  | .....                     | 1.54                 | 0                         | 11                           | 17    | 12                           | 2         | nw.        | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 69.2                         | -4.0                      | 92      | 19   | 44     | 5    | 39                       | 3.64  | -0.12                     | 1.14                 | 0                         | 12                           | 11    | 10                           | 10        | sw.        | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 75.0                         | +0.4                      | 92      | 13†  | 54     | 25†  | 31                       | 2.02  | -2.58                     | 0.45                 | 0                         | 10                           | 17    | 4                            | 10        | w.         | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 75.7                         | +0.9                      | 100     | 19   | 51     | 5†   | 42                       | 3.68  | -0.16                     | 1.60                 | 0                         | 9                            | 21    | 5                            | 5         | nw.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 73.4                         | +0.1                      | 97      | 1†   | 48     | 5†   | 44                       | 1.93  | -1.71                     | 0.79                 | 0                         | 9                            | 24    | 6                            | 1         | .....      | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 36                      | 66.0                         | -5.1                      | 89      | 20   | 45     | 30   | 32                       | 4.79  | +0.86                     | 1.10                 | 0                         | 8                            | 20    | 4                            | 7         | sw.        | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 75.8                         | +1.5                      | 99      | 19   | 51     | 31   | 39                       | 2.10  | -1.46                     | 0.78                 | 0                         | 10                           | 10    | 17                           | 4         | nw.        | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | 69.8                         | +1.6                      | 93      | 14†  | 46     | 3†   | 40                       | 2.62  | -1.56                     | 0.83                 | 0                         | 9                            | 18    | 10                           | 3         | w.         | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 45                      | 74.8                         | +0.2                      | 94      | 13†  | 52     | 25†  | 35                       | 2.56  | -2.26                     | 1.20                 | 0                         | 7                            | 19    | 3                            | 9         | nw.        | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 71.5                         | -0.9                      | 93      | 19   | 49     | 3    | 39                       | 1.87  | -2.58                     | 0.59                 | 0                         | 10                           | 23    | 4                            | 4         | w.         | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 68.8                         | -0.8                      | 88      | 13†  | 46     | 3    | 36                       | 3.89  | -0.44                     | 0.84                 | 0                         | 8                            | 10    | 15                           | 6         | nw.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 76.4                         | +2.3                      | 98      | 13   | 53     | 25†  | 39                       | 2.50  | -1.83                     | 0.79                 | 0                         | 9                            | 20    | 7                            | 4         | s.         | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 68.6                         | 0.0                       | 88      | 17   | 48     | 3    | 29                       | 2.41  | -2.35                     | 0.93                 | 0                         | 13                           | 10    | 14                           | 7         | nw.        | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 74.8                         | +1.1                      | 95      | 14   | 53     | 25†  | 34                       | 3.75  | -0.59                     | 1.59                 | 0                         | 10                           | 24    | 5                            | 2         | n.         | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 59                      | 75.3                         | +1.1                      | 97      | 19   | 55     | 31   | 35                       | 3.46  | -0.32                     | 0.80                 | 0                         | 12                           | 21    | 6                            | 4         | w.         | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 28                      | 71.2                         | +1.1                      | 93      | 19   | 44     | 25†  | 44                       | 1.89  | -3.11                     | 0.45                 | 0                         | 9                            | 21    | 7                            | 3         | w.         | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 59.6                         | .....                     | 80      | 22   | 43     | 25†  | 28                       | 4.23  | -0.79                     | 2.45                 | 0                         | 6                            | 20    | 10                           | 1         | w.         | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 39                      | 72.5                         | -0.8                      | 94      | 19   | 48     | 28   | 37                       | 2.48  | -2.44                     | 1.45                 | 0                         | 9                            | 16    | 12                           | 3         | w.         | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 76.5                         | +1.1                      | 96      | 14†  | 56     | 3†   | 36                       | 4.06  | -0.19                     | 1.18                 | 0                         | 10                           | 22    | 4                            | 5         | w.         | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 74.9                         | +0.1                      | 95      | 19   | 57     | 3    | 29                       | 2.46  | -1.37                     | 0.79                 | 0                         | 8                            | 12    | 15                           | 4         | w.         | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 68.9                         | -1.5                      | 92      | 13   | 43     | 25   | 43                       | 3.05  | -1.01                     | 0.69                 | 0                         | 10                           | 19    | 11                           | 1         | w.         | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 79.0                         | +3.2                      | 98      | 14†  | 60     | 25   | 27                       | 1.52  | -2.61                     | 0.35                 | 0                         | 12                           | 15    | 12                           | 4         | .....      | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 72.4                         | +0.2                      | 96      | 19   | 46     | 25   | 45                       | 2.26  | -1.71                     | 0.46                 | 0                         | 12                           | 17    | 11                           | 3         | w.         | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 73.8                         | +1.3                      | 97      | 21†  | 45     | 7    | 47                       | 2.89  | -0.11                     | 0.85                 | 0                         | 10                           | 12    | 8                            | 11        | .....      | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 72.4                         | -1.3                      | 95      | 13†  | 48     | 25   | 39                       | 3.61  | -0.27                     | 1.98                 | 0                         | 7                            | 23    | 3                            | 5         | w.         | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 68.9                         | -1.2                      | 94      | 13   | 45     | 3    | 41                       | 4.00  | -0.02                     | 0.55                 | 0                         | 11                           | 13    | 13                           | 5         | .....      | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 74.2                         | +0.4                      | 96      | 19   | 54     | 3†   | 36                       | 2.15  | -2.24                     | 0.62                 | 0                         | 12                           | 19    | 8                            | 4         | w.         | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 56                      | 75.4                         | +2.1                      | 100     | 1†   | 49     | 5    | 39                       | 2.37  | -1.62                     | 0.63                 | 0                         | 10                           | 13    | 14                           | 4         | se.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 74.8                         | +1.5                      | 100     | 19   | 49     | 8    | 42                       | 2.66  | -1.39                     | 1.02                 | 0                         | 11                           | 14    | 16                           | 1         | sw.        | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 72.4                         | +0.6                      | 97      | 13†  | 45     | 31   | 47                       | 3.39  | -1.89                     | 0.57                 | 0                         | 12                           | 24    | 6                            | 1         | nw.        | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 79.2                         | .....                     | 95      | 2    | 60     | 25   | 29                       | 1.25  | .....                     | 1.10                 | 0                         | 3                            | 27    | 2                            | 2         | sw.        | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 69.7                         | -2.5                      | 94      | 13   | 45     | 25   | 45                       | 2.94  | -1.95                     | 0.84                 | 0                         | 7                            | 17    | 7                            | 7         | w.         | R. K. Wintermute.           |
| Mifflintown        | Juniata      | 445             | 28                      | 73.7                         | +0.8                      | 95      | 19   | 49     | 31   | 41                       | 3.15  | -1.32                     | 0.97                 | 0                         | 13                           | 13    | 6                            | 12        | w.         | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 28                      | 66.8                         | -0.9                      | 86      | 13   | 43     | 5    | 40                       | 4.93  | +0.83                     | 1.10                 | 0                         | 8                            | 17    | 9                            | 5         | w.         | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 61.5                         | -4.2                      | 83      | 27   | 40     | 25   | 33                       | 3.66  | -1.51                     | 0.99                 | 0                         | 8                            | 19    | 6                            | 6         | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 68.2                         | -1.4                      | 92      | 19   | 41     | 3    | 43                       | 3.31  | -1.44                     | 0.73                 | 0                         | 10                           | 22    | 4                            | 5         | w.         | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 43                      | 74.2                         | +0.9                      | 94      | 13   | 56     | 24   | 35                       | 2.80  | -1.85                     | 0.82                 | 0                         | 9                            | 19    | 5                            | 7         | w.         | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 393             | 14                      | 71.6                         | .....                     | 92      | 17   | 49     | 31   | 35                       | 1.76  | -2.55                     | 0.60                 | 0                         | 8                            | 19    | 9                            | 3         | nw.        | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 77.3                         | +1.1                      | 93      | 1    | 62     | 5    | 21                       | 2.25  | -1.90                     | 1.25                 | 0                         | 8                            | 12    | 12                           | 7         | sw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 8                       | 77.8                         | .....                     | 94      | 1    | 60     | 5    | 27                       | 3.07  | .....                     | 1.59                 | 0                         | 7                            | 13    | 13                           | 5         | .....      | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 76.0                         | +0.3                      | 91      | 14   | 61     | 5†   | 22                       | 3.48  | -1.44                     | 1.30                 | 0                         | 10                           | ..... | .....                        | .....     | .....      | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 22                      | 78.0                         | +3.1                      | 98      | 19   | 52     | 25   | 40                       | 2.61  | -2.29                     | 1.28                 | 0                         | 7                            | 21    | 9                            | 1         | sw.        | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 72.8                         | +0.3                      | 93      | 13†  | 46     | 31   | 39                       | 3.11  | -1.85                     | 0.93                 | 0                         | 9                            | 23    | 5                            | 3         | nw.        | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 75.0                         | -0.5                      | 95      | 19   | 57     | 25   | 30                       | 4.23  | -0.03                     | 1.55                 | 0                         | 8                            | 9     | 14                           | 8         | nw.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 71.0                         | -0.7                      | 92      | 1    | 49     | 25   | 35                       | 2.18  | -1.85                     | 0.70                 | 0                         | 9                            | 3     | 22                           | 6         | sw.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 74.2                         | +1.0                      | 96      | 19   | 48     | 5†   | 40                       | 1.61  | -2.51                     | 0.40                 | 0                         | 10                           | 11    | 14                           | 6         | w.         | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 36                      | 77.0                         | +1.1                      | 95      | 14   | 57     | 25   | 32                       | 3.09  | -1.27                     | 1.46                 | 0                         | 8                            | 17    | 7                            | 7         | w.         | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 70.8                         | +0.3                      | 93      | 19   | 48     | 5    | 34                       | 5.83  | +2.00                     | 1.76                 | 0                         | 11                           | 20    | 11                           | 0         | w.         | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 70.8                         | -0.4                      | 93      | 13   | 45     | 25†  | 41                       | 2.25  | -2.92                     | 0.95                 | 0                         | 5                            | 23    | 4                            | 4         | w.         | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 68.7                         | -1.6                      | 89      | 1†   | 45     | 25   | 37                       | 3.77  | +0.01                     | 1.02                 | 0                         | 11                           | 4     | 13                           | 14        | sw.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 67.9                         | -0.8                      | 93      | 13   | 42     | 5†   | 47                       | 2.80  | -0.95                     | 1.05                 | 0                         | 7                            | 23    | 5                            | 3         | w.         | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 74.8                         | +0.5                      | 91*     | 13†  | 57*    | 4†   | 28*                      | 1.68  | -3.02                     | 0.52                 | 0                         | 6                            | 19    | 9                            | 3         | w.         | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 73.7                         | +0.5                      | 96      | 19   | 50     | 5†   | 41                       | 3.25  | -0.64                     | 0.93                 | 0                         | 12                           | 10    | 12                           | 9         | w.         | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 75.2                         | +1.0                      | 98      | 19   | 52     | 31   | 44                       | 2.98  | -1.26                     | 1.22                 | 0                         | 11                           | 20    | 10                           | 1         | w.         | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |
| Beaver Dam         | Beaver       | 700             | 40                      | 71.4                         | -2.2                      | 98      | 20   | 51     | 3†   | 37                       | 4.86  | +1.09                     | 1.36                 | 0                         | 14                           | 7     | 15                           | 9         | sw.        | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | 66.4                         | -2.3                      | 92      | 13   | 41     | 25   | 47                       | 3.85  | +0.24                     | 0.61                 | 0                         | 13                           | 7     | 15                           | 9         | sw.        | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 66.2                         | -1.5                      | 91*     | 13†  | 39*    | 26   | 47                       | 4.55  | +0.25                     | 1.43                 | 0                         | 10                           | 17    | 6                            | 8         | .....      | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 72.1                         | .....                     | 96      | 17†  | 45     | 4†   | 47                       | 4.26  | -0.18                     | 1.03                 | 0                         | 10                           | 12    | 8                            | 11        | sw.        | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 2</                     |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                             |



## Daily Precipitation for July, 1932

| Stations           | Drainage Basin | Day of month |      |     |     |      |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     |      |      |      |     |     |     |      |      |     |     |      | Total |
|--------------------|----------------|--------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|----|----|-----|-----|------|------|------|-----|-----|-----|------|------|-----|-----|------|-------|
|                    |                | 1            | 2    | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13 | 14  | 15  | 16  | 17 | 18 | 19  | 20  | 21   | 22   | 23   | 24  | 25  | 26  | 27   | 28   | 29  | 30  | 31   |       |
| Atlantic Drainage. |                |              |      |     |     |      |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     |      |      |      |     |     |     |      |      |     |     |      |       |
| Allentown          | Lehigh         | .13          |      | T.  | .40 | .03  | .41 |     |     |     |     | T.  |    |    |     |     |     |    |    | *   | .03 | .47  | .03  | .51  |     | T.  |     | .01  | .07  |     |     | 2.09 |       |
| Altoona            | Juniata        | .55          | .04  | T.  | .13 | .14  | .30 |     |     | .03 |     |     |    |    |     | T.  | .41 |    |    |     |     | .23  | .03  |      |     |     |     | 1.35 | .03  | .60 |     | 3.84 |       |
| Ansonia            | W. Br. Susq.   | 1.01         | .46  |     | .05 |      |     |     | .64 |     |     | .06 |    |    |     | .02 |     |    |    |     |     | .18  | .35  | T.   |     |     |     | .04  | .02  |     |     | 2.83 |       |
| Ardmore            | Lower Del.     |              | .18  |     | .08 |      |     |     |     |     |     |     |    |    |     |     |     |    |    |     | .05 | .35  | 1.43 |      |     |     |     | .10  |      |     |     | 2.22 |       |
| Arendtsville       | Lower Susq.    | .38          | .51  |     | .20 | .28  |     |     |     |     |     |     |    |    |     | .21 |     |    |    |     | .45 |      | .12  | 1.25 |     |     |     | .20  |      | .03 |     | 3.63 |       |
| Baker's Summit     | Juniata        | .20          | T.   | .11 | .12 | .13  |     |     |     |     |     |     |    |    |     | .14 |     |    |    |     |     | .63  | .04  | 1.25 |     |     |     | .28  |      | .77 |     | 2.42 |       |
| Bedford            | Juniata        | .33          | .32  | .04 | .10 | .56  | .06 |     |     |     |     |     |    |    |     | .63 |     |    |    |     |     | .42  | 1.54 |      |     |     |     | .40  |      | .27 |     | 4.67 |       |
| Bellefonte         | W. Br. Susq.   | .52          | .05  | .59 | T.  | .18  |     |     |     | .15 |     |     |    |    |     |     |     |    |    |     | .58 | .25  | .02  |      |     |     |     |      | .15  | .01 |     | 3.64 |       |
| Bethlehem          | Lehigh         | .38          | .30  | .07 | .43 |      |     |     |     |     | T.  |     |    |    |     |     |     |    |    |     | .05 | .18  | .07  | .45  |     |     | .05 | 1.09 | .03  |     |     | 2.02 |       |
| Blossville         | Lower Susq.    | .28          |      | .22 | .32 | .35  |     |     |     |     |     |     |    |    |     |     |     |    |    | .31 | .53 | .32  | .80  |      |     |     |     | .10  |      |     |     | 3.23 |       |
| Buffalo Mills      | Juniata        | .09          |      | .22 | .20 | .35  |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     | .27  | .22  |      |     |     |     | .23  | .21  | .44 |     | 2.54 |       |
| Carlisle           | Lower Susq.    | .20          |      | .31 |     | .85  | .28 |     |     |     |     |     |    |    |     |     |     |    |    |     | .35 |      | 1.18 | .42  |     |     |     | .05  | .21  | .04 |     | 3.68 |       |
| Catawissa          | N. Br. Susq.   | .25          | .10  |     | .32 |      | .11 | .08 | T.  |     | T.  |     |    |    |     |     |     |    |    |     | .12 |      | .11  | .68  |     |     |     |      | .16  |     |     | 1.93 |       |
| Center Hill        | Susquehanna    | 1.10         | .22  | .24 |     |      |     |     |     |     | .57 |     |    |    |     |     |     |    |    |     | .68 | .39  | .49  |      |     |     |     |      | 1.10 |     |     | 4.79 |       |
| Chambersburg       | Potomac        |              | .08  | .51 |     | .08  |     | .34 |     |     |     |     |    |    |     | T.  |     |    |    |     | .03 | .78  | .02  |      |     |     | .10 | .06  |      | .10 |     | 2.10 |       |
| Clearfield         | W. Br. Susq.   | .06          | .17  |     | .83 |      |     | .80 |     |     |     | .05 |    |    |     |     |     |    |    |     | .16 | .24  | .06  |      |     |     |     |      | .25  |     |     | 2.62 |       |
| Coatesville        | Lower Del.     | .11          |      | .46 |     | .20  |     |     |     |     |     |     |    |    |     |     |     |    |    |     | .18 | .03  |      | 1.20 |     |     |     | .38  |      |     |     | 2.56 |       |
| Colebrook          | Lower Susq.    | .06          | .03  |     | .59 | .35  | .01 | .08 |     |     |     | T.  | T. |    |     |     |     |    |    |     | .35 | T.   | .15  | .12  |     |     |     | .13  |      | T.  |     | 1.87 |       |
| Conshohocken       | Schuylkill     |              |      |     | .40 |      | .24 |     |     |     |     |     |    | T. |     |     |     |    |    |     |     | .90  | .04  | 2.11 |     |     |     |      | .75  |     | T.  |      | 4.44  |
| Cresson            | Juniata        | .47          |      |     | .50 | .28  |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     | .32  |      |      |     |     |     |      | .84  | .82 | .22 |      | 3.90  |
| Doylestown         | Lower Del.     |              | .11  |     | .32 | .09  | .13 |     |     |     |     | .01 |    |    | T.  |     |     |    |    | .03 |     | .55  | .82  | 1.22 |     |     |     | .62  | T.   | .10 |     | 4.00 |       |
| Emporium           | W. Br. Susq.   | .84          | T.   |     | .83 |      | .32 |     |     |     | .17 |     |    |    |     |     |     |    |    |     |     | .59  | .47  |      |     |     |     | .09  |      |     |     | 3.89 |       |
| Ephrata            | Lower Susq.    |              | .28  |     | .56 | .03  | .04 |     |     |     |     | T.  |    |    |     |     |     |    |    |     | .41 | .09  | .04  | .26  |     |     |     | .79  | T.   |     |     | 2.50 |       |
| Forest City        | N. Br. Susq.   | 1.07         | .10  | .16 |     |      |     | .36 |     |     |     | .06 |    |    |     |     |     |    |    |     |     |      |      |      |     |     |     | .42  | T.   | T.  |     | 2.60 |       |
| Freeland           | Lehigh         | .38          | .20  | .30 | .17 | .04  | .03 | .01 |     |     |     |     |    |    |     |     |     |    |    |     | .08 | .22  | .03  | .90  |     |     |     | .02  | .04  |     |     | 2.41 |       |
| Galeton            | W. Br. Susq.   | .82          | .08  | .60 |     | .67  |     |     |     | .07 |     |     |    |    | .03 |     | .04 |    |    |     | .58 | .02  |      |      |     |     |     |      | .08  |     |     | 2.99 |       |
| George School      | Lower Del.     | .10          |      | .20 |     | .18  |     |     |     |     |     |     |    |    |     |     |     |    |    |     | .25 | 1.59 | .37  |      |     |     |     | .17  | .18  | .68 |     | 3.75 |       |
| Gettysburg         | Potomac        | .18          |      | .35 | .02 | .22  |     | .26 |     |     |     |     |    |    |     |     | .12 |    |    |     | .48 | .80  | .16  | .58  |     |     |     | .27  |      | .02 |     | 3.46 |       |
| Girardville        | Lower Susq.    | .46          | .39  |     | .31 | .07  | .10 |     |     |     |     |     |    |    |     |     |     |    |    |     | .08 | .02  | T.   | .71  |     |     |     | .05  | .06  |     |     | 2.25 |       |
| Gordon             | Lower Susq.    | .34          | .02  | .34 | .18 |      |     |     |     |     |     | .08 |    |    |     |     |     |    |    |     | .22 | .03  |      | .45  |     |     |     | .23  |      |     |     | 1.89 |       |
| Gouldsboro         | Lehigh         | .67          |      |     | .55 |      |     |     |     |     |     |     |    |    |     |     |     |    |    | .28 |     |      |      |      |     |     |     | .26  |      | .02 |     | 4.23 |       |
| Graterford         | Schuylkill     | .02          |      | .43 | .11 | .14  |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     | .17  | .02  | 1.68 |     |     |     | .76  |      |     |     | 3.33 |       |
| Hamberg            | Schuylkill     | .10          |      | .33 |     | .32  |     |     |     |     |     |     |    |    |     |     |     |    |    |     | .02 | .12  | .02  | 1.45 |     |     |     | .02  | .10  |     |     | 2.48 |       |
| Hanover            | Lower Susq.    | .13          | .01  |     | .41 | .14  | .23 |     |     |     |     |     |    |    |     |     |     |    |    |     | .31 | .39  | 1.18 | 1.15 |     |     |     | .11  |      | T.  |     | 4.06 |       |
| Harrisburg         | Lower Susq.    | T.           | T.   |     | .33 | .44  | .12 |     |     |     |     | T.  |    |    |     |     |     |    |    |     | .64 | .04  | .79  |      |     |     |     | .09  | T.   | .01 |     | 2.46 |       |
| Hawley             | Upper Del.     | .63          | .06  | .15 | .31 |      |     | .06 | T.  |     |     |     |    |    |     |     |     |    |    | .29 |     |      |      |      | .69 | .01 |     | .35  | .50  |     |     | 3.05 |       |
| Hollisterville     | Upper Del.     | .72          | .21  | .07 | .21 |      |     | .01 |     |     | .02 |     |    |    |     | T.  |     |    |    | .50 |     |      |      | .40  | T.  |     |     | .10  | .05  | .02 | T.  | 2.31 |       |
| Holtwood           | Lower Susq.    | .15          |      | .03 | .20 | .04  | .02 | .10 |     |     |     |     |    |    |     |     |     |    |    |     | .18 | .08  | .35  | .16  | T.  |     |     | .10  | .11  |     |     | 1.52 |       |
| Huntingdon         | Juniata        | .15          | T.   | .16 | .20 | .26  | .03 | .01 |     |     |     |     |    |    |     |     |     |    |    |     | .17 | .46  | T.   |      |     |     |     | .31  | .05  | .42 |     | 2.26 |       |
| Hyndman            | Potomac        | .07          |      | .20 | T.  | .50  | .06 | .02 |     |     |     |     |    |    |     | .28 |     |    |    |     |     |      | .60  |      |     |     |     | .85  |      | .11 |     | 2.89 |       |
| Kylertown          | W. Br. Susq.   | .22          | .66  | .57 | .01 | .02  | .43 |     |     |     | .27 |     |    |    |     |     |     |    |    | .03 | .72 | .02  | 1.62 |      |     |     | .17 |      | .07  |     |     | 4.89 |       |
| Lakeville          | Upper Del.     | .90          | .07  | .33 | .10 | .30  | T.  | .05 |     |     |     |     |    |    |     |     |     |    |    |     | .38 |      |      | .24  |     |     |     | 1.98 |      |     |     | 3.61 |       |
| Lancaster          | Lower Susq.    | .37          |      | .46 |     | .15  | .03 |     |     |     |     |     |    |    |     |     |     |    |    |     | .03 | .40  | .02  | 1.57 |     |     |     | .03  | .03  |     |     | 3.08 |       |
| Lansford           | Lehigh         | .26          | .02  | *   | .47 | .09  | .15 | .01 |     |     |     | T.  |    |    |     |     |     |    |    |     | .32 |      |      | .52  |     |     |     | .12  |      | .40 |     | 4.00 |       |
| Lawrenceville      | N. Br. Susq.   | .75          | .10  | .60 |     | .12  | .55 |     |     |     |     |     |    |    | .12 |     |     |    |    |     |     | .06  | .19  |      |     |     | .13 | .01  |      |     |     | 2.15 |       |
| Lebanon            | Lower Susq.    | .15          | T.   | .11 | .36 | .07  | .12 | .06 |     |     | T.  | .27 |    |    | T.  |     |     |    |    |     | .34 | .14  | .02  | .63  |     |     |     | .55  |      | .03 |     | 2.37 |       |
| Lewisburg          | W. Br. Susq.   | .16          |      | .37 |     |      | .06 |     |     |     |     |     |    |    |     |     |     |    |    |     |     |      |      |      |     |     |     |      |      |     |     |      |       |
| Lloyd              | do.            |              |      |     |     |      |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     |      |      |      |     |     |     |      |      |     |     |      |       |
| Lock Haven         | W. Br. Susq.   | .11          | 1.02 | .08 | .52 |      | .19 |     |     |     | .06 |     |    |    |     |     |     |    |    |     | .29 | .14  | .02  |      |     |     |     | .19  |      | .04 |     | 2.66 |       |
| Lykens             | Susquehanna    | .49          |      | .26 | .10 | .57  | .22 | .19 |     |     | .18 |     |    |    |     |     |     |    |    |     | .56 | T.   | .04  | .31  |     |     |     | .44  |      | .03 |     | 3.39 |       |
| Marcus Hook        | Lower Del.     |              | .12  | .03 |     |      |     |     |     |     |     |     |    |    |     |     |     |    |    | T.  |     |      |      | .61  |     |     |     |      |      |     |     | 1.25 |       |
| Matamoras          | Upper Del.     | .52          |      | .03 | .57 |      | .49 |     |     |     |     |     |    |    |     |     |     |    |    | .05 |     |      |      |      |     |     |     | .04  | 1.09 |     |     | 3.40 |       |
| Mauch Chunk        | Lehigh         | .72          |      | .45 | .62 |      |     |     |     |     |     |     |    |    |     |     |     |    |    |     | .06 | .23  | .84  |      |     |     |     | .02  |      |     |     | 2.94 |       |
| Millintown         | Juniata        | .16          | .13  | .20 | .08 |      | .35 |     |     |     | .14 |     |    |    |     |     |     |    |    |     | .50 | .16  | .25  | .06  |     |     | .29 | .68  |      | .15 |     | 3.15 |       |
| Montrose           | N. Br. Susq.   | 1.05         | .20  | .73 |     | 1.10 |     |     |     |     |     |     |    |    |     |     |     |    |    |     | .05 | .10  | .80  |      |     |     |     | .90  |      | .10 |     | 4.93 |       |
| Morris Run         | N. Br. Susq.   | .65          |      | .7  |     |      |     |     |     |     |     |     |    |    |     |     |     |    |    |     |     |      |      |      |     |     |     |      |      |     |     |      |       |



## Daily Precipitation for July, 1932—Continued from page 33

| Stations        | Drainage Basin | Day of month |      |     |      |      |      |      |      |     |     |     |    |     |     |     |      |     |     |     |     |      |      |     |     |     |     |      |      |      |      |      | Total |
|-----------------|----------------|--------------|------|-----|------|------|------|------|------|-----|-----|-----|----|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|-------|
|                 |                | 1            | 2    | 3   | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12 | 13  | 14  | 15  | 16   | 17  | 18  | 19  | 20  | 21   | 22   | 23  | 24  | 25  | 26  | 27   | 28   | 29   | 30   | 31   |       |
| Ohio Drainage.  |                |              |      |     |      |      |      |      |      |     |     |     |    |     |     |     |      |     |     |     |     |      |      |     |     |     |     |      |      |      |      |      |       |
| Beaver Dam      | Ohio           | .11          | .53  | .01 | .55  |      |      |      | 1.36 | .02 |     | .75 |    |     | .02 |     | .40  |     |     |     |     |      |      | .67 | .10 |     |     |      | .20  | .12  | .02  |      | 4.86  |
| Beaver Falls    | Beaver         |              | .61  | .03 | .31  | .26  |      |      | .95  |     |     | T.  |    |     | .06 |     | .42  |     |     |     |     | T.   | .15  |     |     |     |     |      | .20  | .04  | .23  |      | 3.26  |
| Bradford        | Allegheny      | .60          | .27  |     | .58  |      |      | .48  |      | .04 | .28 |     |    | .02 |     | .02 |      |     |     |     | .50 | T.   | .10  |     |     |     |     | .30  | .61  | .05  |      | 3.85 |       |
| Brookville      | do             |              | .49  | .10 | .15  | 1.05 |      | .42  |      |     |     |     |    |     | .05 |     |      |     |     |     |     | T.   | .34  | .40 |     |     |     |      | .12  | 1.43 | T.   |      | 4.55  |
| Butler          | Ohio           | .79          | .08  |     | .63  |      |      | 1.03 |      |     |     |     |    | .04 |     | .05 |      |     |     |     |     | .12  | .58  |     |     |     |     | .08  |      | .86  |      | 4.26 |       |
| Chambersville   | Allegheny      | .62          | .02  | .01 | .71  |      | .01  | .81  |      |     | .02 |     |    |     | .28 | .49 |      |     |     |     |     | .26  | .01  |     |     |     |     | .03  | .15  | .76  |      | 4.18 |       |
| Clairton        | Monongahela    | .24          | T.   | T.  | .81  |      | .09  | .31  | .08  |     | T.  |     |    |     | .02 | .18 |      |     |     |     |     | .05  | .51  |     |     |     | .30 | .25  | .35  | .15  |      | 3.34 |       |
| Claysville      | Ohio           | .35          |      |     | .71  |      | .44  | .88  |      | .29 |     |     |    |     | .03 | .01 | 1.31 |     |     |     |     | .01  | .03  |     |     |     | T.  | .47  |      | 1.39 |      | 5.92 |       |
| Clymer          | Conemaugh      | .85          |      | .70 |      |      |      | .65  |      |     |     |     |    |     |     |     |      | .55 |     |     |     | .20  |      |     |     |     |     |      |      |      | .70  | 3.65 |       |
| Confluence      | Youghiogheny   | .24          | .37  |     | .37  | .35  | .05  | .43  | .76  | .26 |     |     |    |     |     |     | .80  |     |     |     | .05 | .41  | 2.93 | .05 |     |     |     | .52  | .03  | 1.10 | 1.00 | 9.65 |       |
| Corry           | Allegheny      | .05          | .08  | .31 | .20  |      |      | .75  |      |     | .34 |     |    | .07 |     | .02 |      |     |     |     |     | .14  | .04  |     |     |     |     | .06  | .44  | .03  | .04  | 2.71 |       |
| Coudersport     | Allegheny      | .55          | .14  | .45 | .03  |      |      | .15  | .02  |     | .26 |     |    |     |     |     |      |     |     | .38 | .08 | .08  |      |     |     |     |     |      | 1.18 |      | .51  | 3.63 |       |
| Derry           | Conemaugh      | .34          | .02  |     | .34  |      | .05  | .62  |      | T.  |     |     |    |     |     | .06 | .13  |     |     |     |     | *    | .80  | .01 | T.  |     |     |      | .24  | .12  | 1.53 | 4.20 |       |
| Donora          | Monongahela    |              | .16  | T.  | *    | .34  | .12  | .39  | .01  | T.  |     |     |    |     | .02 | .46 |      |     |     |     |     | *    | .38  |     |     |     |     |      | .55  |      | .76  | 3.79 |       |
| Ebensburg       | Conemaugh      | .27          | .07  |     | .43  |      | .09  | .65  |      | .02 | .03 |     |    |     |     | .03 | .37  |     |     |     |     | .34  | .18  |     |     |     |     |      |      |      |      |      |       |
| Elk Lick        | Youghiogheny   |              |      |     |      |      |      |      |      |     |     |     |    |     |     |     |      |     |     |     |     |      |      |     |     |     |     |      |      |      |      |      |       |
| Falls Creek     | Allegheny      |              |      |     |      |      |      |      |      |     |     |     |    |     |     |     |      |     |     |     |     |      |      |     |     |     |     |      |      |      |      |      |       |
| Franklin        | Allegheny      |              | 1.56 | .29 | .77  | .05  |      | .65  |      |     |     |     |    |     |     |     | .14  |     |     |     |     | .18  | .45  |     |     |     |     | .30  | .10  | .06  |      | 4.55 |       |
| Freeport        | do             | .17          | .73  | .06 | .57  | .17  |      | .91  |      |     | .09 |     |    |     | .04 |     | .07  |     |     |     |     | .06  | .53  | .89 |     |     |     | .05  | 1.06 | .32  |      | 5.72 |       |
| Greensboro      | Monongahela    | .28          | .17  | T.  | .42  | .67  | .05  | .35  | .43  | .28 | T.  |     |    |     | .01 |     | .19  |     |     |     |     | .02  | .30  |     |     |     |     | .14  | .43  | .34  |      | 4.08 |       |
| Greensburg      | Youghiogheny   | .23          | .03  | T.  | .75  |      | .01  | .50  | T.   | .20 | .63 |     |    |     | T.  | T.  | .93  |     |     |     |     | T.   | .69  | .01 |     |     |     | T.   | .65  |      | .25  | 4.88 |       |
| Greenville      | Beaver         | 1.25         | .33  | .08 | .64  |      |      | .40  |      |     |     |     |    |     | T.  | .16 |      |     |     |     |     |      | .06  | .17 |     |     |     | 1.32 |      | .03  | .40  | 4.61 |       |
| Grove City      | do             | 1.08         | .23  | .08 | 1.10 |      |      | .62  |      |     | T.  |     |    |     |     | .12 | .10  |     |     |     |     | .06  | .17  |     |     | .05 |     |      | .11  |      | .29  | 4.01 |       |
| Herrs Isl. Dam  | Ohio           | T.           | .06  | T.  | .41  | .01  |      | .67  | T.   |     | .36 |     |    |     | .05 |     | .25  | T.  |     |     |     | .04  | .28  | .05 |     |     |     |      | .23  | .16  | .20  | 2.71 |       |
| Ingram          | Ohio           | .10          | .01  | T.  | .46  |      |      | .30  | .30  | .01 | .02 |     |    |     | .03 |     | .56  |     |     |     |     | .23  | .35  | .03 |     |     | T.  | .39  |      | .17  |      | 2.96 |       |
| Irwin           | Monongahela    | .12          | .01  | T.  | .70  |      | .08  | .30  | .02  |     | .25 |     |    |     | .02 |     | .31  |     |     |     |     | T.   | .65  |     |     |     |     | T.   | 1.05 |      | .86  |      | 3.51  |
| Johnstown       | Conemaugh      | .44          | .06  | .19 | .26  |      | .20  | .22  | T.   |     |     |     |    |     |     | .04 | .24  |     |     |     |     | .08  | .49  |     |     |     |     |      | .87  |      | .02  | 3.95 |       |
| Kane (near)     | Allegheny      | .34          | .13  | T.  | .59  |      |      | .83  |      |     | T.  | .04 |    |     | T.  |     | .24  |     |     |     |     | .82  | .04  | .50 |     |     |     | T.   | .17  | T.   | .02  | 3.50 |       |
| Kegon           | Youghiogheny   | .24          | .03  | .25 | .62  | T.   | .48  | .33  | .13  |     | .16 |     |    |     |     | .42 |      |     |     |     |     | 1.02 | .02  | T.  |     |     |     | .15  | .27  | .41  |      | 4.53 |       |
| Lake Lynn       | Monongahela    | .12          | .36  | .01 | .47  | .27  | .02  | .26  | .64  | .15 |     |     |    |     | .01 |     | .64  |     |     |     |     |      | .07  |     |     |     |     | .34  | .72  | .30  |      | 4.88 |       |
| Linesville      | Beaver         |              | .50  | .12 | .72  | .01  |      | .58  |      |     | .05 |     |    |     | .03 |     | .30  |     |     |     |     | .60  | .19  |     |     |     |     | .52  |      | .04  |      | 3.66 |       |
| Lock No 2       | Ohio           | .01          | .08  |     | .65  | .32  |      | 1.23 | .07  |     | .02 |     |    |     | .02 |     | 1.05 |     |     |     |     | .21  |      |     |     |     |     | .11  | .09  | .34  |      | 4.20 |       |
| Lock No. 4      | Monongahela    |              | .08  |     | .26  | .36  | .39  | T.   | .41  |     |     |     |    |     | .03 |     | .43  |     |     |     |     | T.   | .15  | .71 |     |     |     | .01  | .26  | 1.60 |      | 4.69 |       |
| Lycippus        | Conemaugh      | .10          | T.   |     | .60  |      | .24  | .23  | .21  | .15 |     | .45 |    |     |     | .33 |      | .33 |     |     |     |      | .97  | T.  |     |     |     |      | .45  |      | .25  |      | 3.98  |
| McKeesport      | Monongahela    |              | .16  |     | .67  | T.   |      | .31  | .11  |     |     |     |    |     | T.  |     | .19  |     |     |     |     |      | .75  |     |     |     |     | .06  | .16  | .20  |      | 2.61 |       |
| Meadville       | Allegheny      | 1.37         | .29  | .06 | .75  |      |      | .43  |      | T.  |     |     |    | .05 |     | .03 |      | .12 |     |     |     | .14  | .21  |     |     |     |     |      | .55  | .05  | .03  | 4.09 |       |
| Mount Lebanon   | Ohio           | .04          | T.   |     | .80  |      | .01  | .44  |      | .06 | T.  |     |    |     | .05 | .01 | .72  |     |     |     |     | T.   | .02  | T.  |     |     | T.  | .55  |      | .45  |      | 3.15 |       |
| Natrona         | Allegheny      | .10          | .28  | .04 | .60  | .20  |      | .68  |      |     |     |     |    |     | .04 |     | .10  |     |     |     |     | .01  | .42  | .05 |     |     |     | .17  | .26  | .06  |      | 3.01 |       |
| New Castle      | Beaver         |              | .84  | .22 | .87  | .02  |      | .41  |      | .01 |     |     |    |     | .03 |     | .77  |     |     |     |     | 1.36 |      |     |     |     |     | .26  |      | .20  |      | 4.99 |       |
| Newell          | Monongahela    |              |      | .03 | .28  |      | .44  |      | .36  |     |     |     |    |     |     |     | .48  |     |     |     |     | .82  |      |     |     |     |     | .70  |      | .28  | .99  | 4.38 |       |
| Parkers Landing | Allegheny      | T.           | .28  | .09 | 1.35 | T.   |      | .48  |      |     | T.  |     |    |     | T.  |     | .02  |     |     |     |     | T.   | .10  | T.  |     |     |     | .22  | .03  | .38  |      | 2.95 |       |
| Pennline        | Beaver         |              | .77  | .01 | .60  | T.   |      | .55  |      | .05 |     |     |    |     | .02 |     | .23  |     |     |     |     | .25  | .22  |     |     |     |     | .59  | .08  | .03  |      | 3.40 |       |
| Pittsburgh      | Ohio           | .10          | T.   | T.  | .36  |      |      | .53  | .03  |     | .04 | T.  |    |     | .01 | .02 | .24  | T.  |     |     |     | .08  | .24  | .03 |     |     |     | .04  | .13  | .16  | T.   | 2.01 |       |
| Punxsutawney    | Allegheny      |              | 1.16 | T.  | .89  | T.   |      | .37  | .09  | .14 |     |     |    |     |     |     | .11  |     |     |     |     | T.   | .55  |     |     |     |     |      | .10  | .34  | .05  |      | 4.80  |
| Ridgway         | do             |              | .66  | .12 | .71  | .16  |      | .51  |      | .01 | .26 |     |    |     |     |     | T.   |     |     |     |     | .25  | .27  | T.  |     |     |     | .35  | T.   |      |      | 3.30 |       |
| Saltsburg       | Conemaugh      |              | .21  | .10 | .41  | .18  | .01  | .47  |      |     |     |     |    |     | T.  |     | .06  |     |     |     |     | .03  | .39  |     |     |     |     | .12  | .04  | .32  |      | 2.34 |       |
| Sharon          | Beaver         | 1.73         | .05  | .96 | .04  |      |      | .59  |      | .01 |     |     |    |     | .02 |     | .90  |     |     |     |     | .41  | .22  |     |     |     |     | .57  | .01  |      | .25  |      | 5.76  |
| Smethport       | Allegheny      |              | .52  | .06 | .55  |      |      | .77  | .02  | .38 |     |     |    |     | T.  |     | T.   |     |     |     |     | .33  | .05  |     |     |     |     | .14  | .38  | T.   |      | 3.20 |       |
| Somerset        | Youghiogheny   | T.           | .22  | .01 | .33  | .04  | .48  | .22  | .02  | .09 |     | T.  |    |     |     | .15 |      |     |     |     |     |      | .55  | .22 |     |     |     | .54  | .28  | 1.00 |      | 4.15 |       |
| Springdale      | Allegheny      | T.           | .34  | .02 | .55  | .07  |      | 1.45 |      |     | .01 |     |    |     | .06 |     | .05  |     |     |     |     | T.   | .84  | .01 |     |     |     |      | .14  |      | .68  | .01  | 4.23  |
| Uniontown       | Monongahela    | .06          | .02  |     | .50  | .09  | .65  | .31  | .03  | .38 | T.  |     |    |     |     | .25 |      | .03 | .14 | .30 |     |      | .03  | .14 | .30 |     |     |      | .73  | .37  | 1.35 |      | 5.21  |
| Unity Reservoir | Youghiogheny   | .42          | T.   |     | .97  |      | .37  | .38  | T.   | .25 |     | .77 |    |     |     | T.  | .37  |     |     |     |     |      | .57  | .03 |     |     |     | T.   | .56  | .37  |      | 5.06 |       |
| Vandergrift     | Conemaugh      | *            | *    | *   | *    |      | 1.24 | 1.73 |      |     |     |     |    |     | .01 | .23 |      |     |     |     |     | .01  | .11  | .26 |     |     |     | .10  | .28  |      |      | 3.97 |       |
| Warren          | Allegheny      |              | 1.06 | .08 | .71  |      |      | .38  | .10  | .01 | .28 |     |    |     |     |     | .52  |     |     |     |     | .08  | .10  | .08 |     |     |     | .25  | .11  |      |      | 3.24 |       |
| Waynesburg      | Monongahela    | .28          |      |     | .66  |      | .52  | .53  |      | .12 |     |     |    |     |     |     | .52  |     |     |     |     |      |      |     |     |     |     | .55  |      | .63  |      | 3.81 |       |
| Westford        | Beaver         | 1.68         | .10  | .60 | .02  |      |      | .54  |      |     |     |     |    |     | .05 |     | .25  |     |     |     |     |      | .73  |     |     |     | .68 |      |      | .14  |      | 4.79 |       |
| West Newton     | Youghiogheny   |              | .31  |     | .17  | .37  | .10  |      | .29  | .02 |     |     |    |     |     |     | .26  |     |     |     |     |      | .90  |     |     |     |     |      | .32  | 1.36 |      | 4.10 |       |
| Lake Drainage.  |                |              |      |     |      |      |      |      |      |     |     |     |    |     |     |     |      |     |     |     |     |      |      |     |     |     |     |      |      |      |      |      |       |
| Erie            | Lake Erie      | .30          | .04  | .06 | .37  |      |      | .24  |      |     | .22 |     |    |     | .07 |     | .04  |     |     |     |     |      | .32  | .03 |     |     |     | .49  | .04  | .03  |      | 2.25 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.



## Daily Temperatures for July, 1932

| Stations           | 1             | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19  | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|--------------------|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum... 91 | 73 | 78 | 79 | 79 | 67 | 85 | 80 | 85 | 88 | 83 | 81 | 91 | 90 | 83 | 86 | 91 | 90 | 92  | 83 | 85 | 84 | 87 | 76 | 83 | 85 | 87 | 87 | 81 | 76 | 84   | 83.5 |      |
|                    | Minimum... 62 | 65 | 56 | 61 | 57 | 59 | 61 | 62 | 61 | 61 | 67 | 63 | 65 | 69 | 55 | 61 | 63 | 64 | 59  | 66 | 69 | 67 | 64 | 57 | 52 | 58 | 63 | 66 | 66 | 55 | 52   | 61.5 |      |
| Altoona.....       | Maximum... 89 | 70 | 73 | 79 | 77 | 82 | 86 | 73 | 81 | 85 | 81 | 82 | 91 | 91 | 83 | 76 | 88 | 83 | 92  | 84 | 89 | 88 | 85 | 76 | 86 | 91 | 82 | 86 | 82 | 75 | 80   | 82.7 |      |
|                    | Minimum... 61 | 57 | 52 | 56 | 47 | 56 | 57 | 60 | 58 | 58 | 65 | 52 | 58 | 69 | 59 | 62 | 62 | 54 | 56  | 68 | 67 | 68 | 62 | 49 | 48 | 54 | 62 | 61 | 61 | 51 | 51   | 57.9 |      |
| Bedford.....       | Maximum... 93 | 87 | 76 | 81 | 83 | 85 | 90 | 75 | 83 | 88 | 87 | 85 | 94 | 94 | 93 | 89 | 91 | 86 | 91  | 91 | 92 | 92 | 85 | 83 | 87 | 92 | 85 | 90 | 88 | 51 | 50   | 59.1 |      |
|                    | Minimum... 66 | 58 | 51 | 60 | 51 | 63 | 55 | 61 | 55 | 55 | 70 | 54 | 73 | 58 | 65 | 64 | 55 | 55 | 69  | 66 | 66 | 61 | 52 | 47 | 54 | 68 | 65 | 61 | 75 | 80 | 81.9 |      |      |
| Bellefonte.....    | Maximum... 89 | 68 | 74 | 79 | 77 | 79 | 86 | 74 | 83 | 86 | 80 | 81 | 90 | 87 | 79 | 80 | 90 | 84 | 92  | 82 | 84 | 87 | 83 | 76 | 84 | 88 | 84 | 84 | 74 | 53 | 47   | 56.4 |      |
|                    | Minimum... 58 | 57 | 51 | 52 | 44 | 58 | 52 | 59 | 57 | 55 | 60 | 54 | 55 | 62 | 56 | 61 | 63 | 55 | 54  | 65 | 68 | 67 | 58 | 51 | 45 | 52 | 64 | 59 | 57 | 74 | 75   | 82.1 |      |
| Brookville.....    | Maximum... 85 | 87 | 64 | 73 | 78 | 85 | 85 | 84 | 77 | 81 | 91 | 88 | 78 | 82 | 86 | 81 | 91 | 84 | 89  | 88 | 79 | 75 | 86 | 88 | 81 | 83 | 81 | 83 | 81 | 83 | 44   | 50.4 |      |
|                    | Minimum... 46 | 55 | 44 | 40 | 48 | 43 | 45 | 47 | 48 | 44 | 46 | 58 | 54 | 59 | 50 | 46 | 47 | 61 | 65  | 58 | 48 | 44 | 39 | 58 | 58 | 54 | 58 | 58 | 54 | 53 | 44   | 50.4 |      |
| Butler.....        | Maximum... 87 | 86 | 72 | 80 | 83 | 88 | 86 | 80 | 82 | 85 | 82 | 84 | 90 | 90 | 88 | 88 | 96 | 96 | 95  | 94 | 95 | 94 | 92 | 92 | 86 | 90 | 87 | 87 | 88 | 80 | 60   | 56.7 |      |
|                    | Minimum... 63 | 54 | 48 | 45 | 49 | 59 | 54 | 58 | 57 | 52 | 66 | 50 | 52 | 68 | 68 | 68 | 62 | 52 | 54  | 62 | 70 | 65 | 60 | 45 | 45 | 52 | 62 | 48 | 60 | 51 | 53   | 59.9 |      |
| Carlisle.....      | Maximum... 95 | 90 | 80 | 77 | 86 | 86 | 90 | 85 | 88 | 88 | 88 | 83 | 97 | 95 | 94 | 87 | 97 | 95 | 100 | 93 | 90 | 92 | 90 | 89 | 91 | 94 | 90 | 89 | 92 | 85 | 61.5 |      |      |
|                    | Minimum... 65 | 60 | 57 | 61 | 51 | 60 | 65 | 60 | 60 | 60 | 60 | 68 | 63 | 65 | 73 | 59 | 65 | 61 | 65  | 58 | 65 | 71 | 67 | 65 | 56 | 54 | 66 | 70 | 60 | 51 | 53   | 61.5 |      |
| Catawissa.....     | Maximum... 97 | 86 | 80 | 85 | 85 | 74 | 92 | 85 | 89 | 92 | 88 | 84 | 97 | 93 | 86 | 86 | 95 | 90 | 94  | 83 | 88 | 93 | 90 | 79 | 92 | 89 | 92 | 91 | 81 | 80 | 86   | 59.1 |      |
|                    | Minimum... 58 | 60 | 53 | 60 | 48 | 57 | 64 | 62 | 57 | 58 | 64 | 57 | 60 | 70 | 55 | 64 | 64 | 58 | 55  | 66 | 69 | 68 | 63 | 53 | 48 | 51 | 53 | 65 | 58 | 65 | 48   | 59.1 |      |
| Chambersburg.....  | Maximum... 96 | 84 | 86 | 87 | 86 | 77 | 90 | 82 | 89 | 93 | 89 | 88 | 98 | 97 | 89 | 84 | 98 | 91 | 99  | 91 | 91 | 95 | 94 | 84 | 90 | 90 | 89 | 94 | 85 | 83 | 87   | 89.5 |      |
|                    | Minimum... 69 | 64 | 59 | 54 | 54 | 63 | 65 | 59 | 58 | 61 | 71 | 59 | 61 | 75 | 64 | 64 | 66 | 63 | 60  | 65 | 68 | 75 | 65 | 56 | 52 | 58 | 59 | 62 | 64 | 51 | 62.0 |      |      |
| Chambersville..... | Maximum... 91 | 75 | 75 | 83 | 79 | 87 | 89 | 77 | 84 | 85 | 80 | 83 | 90 | 87 | 81 | 90 | 84 | 92 | 91  | 91 | 92 | 86 | 77 | 86 | 91 | 84 | 88 | 82 | 81 | 83 | 85.0 |      |      |
|                    | Minimum... 64 | 54 | 48 | 58 | 46 | 59 | 54 | 59 | 56 | 54 | 66 | 48 | 53 | 69 | 59 | 64 | 62 | 51 | 52  | 63 | 67 | 65 | 60 | 46 | 45 | 53 | 64 | 57 | 47 | 48 | 47   | 56.1 |      |
| Claysville.....    | Maximum... 89 | 72 | 77 | 83 | 82 | 89 | 86 | 79 | 85 | 86 | 83 | 87 | 91 | 93 | 90 | 86 | 90 | 86 | 94  | 96 | 97 | 94 | 92 | 82 | 92 | 91 | 86 | 89 | 85 | 82 | 86   | 87.1 |      |
|                    | Minimum... 67 | 57 | 49 | 61 | 49 | 64 | 55 | 61 | 53 | 57 | 67 | 49 | 60 | 67 | 60 | 66 | 63 | 54 | 57  | 70 | 73 | 69 | 65 | 45 | 49 | 54 | 66 | 54 | 58 | 49 | 49   | 58.6 |      |
| Clearfield.....    | Maximum... 88 | 67 | 74 | 77 | 80 | 88 | 87 | 74 | 82 | 85 | 80 | 86 | 91 | 93 | 83 | 80 | 90 | 85 | 93  | 84 | 85 | 88 | 83 | 79 | 85 | 90 | 82 | 84 | 75 | 78 | 82   | 83.2 |      |
|                    | Minimum... 57 | 56 | 46 | 57 | 46 | 56 | 53 | 58 | 55 | 52 | 63 | 58 | 51 | 69 | 59 | 60 | 63 | 54 | 65  | 66 | 68 | 65 | 49 | 46 | 51 | 65 | 57 | 57 | 47 | 48 | 46   | 56.5 |      |
| Coatesville.....   | Maximum... 92 | 77 | 80 | 80 | 81 | 69 | 87 | 84 | 88 | 91 | 87 | 83 | 94 | 93 | 85 | 85 | 92 | 88 | 94  | 86 | 89 | 89 | 91 | 78 | 87 | 86 | 92 | 89 | 85 | 77 | 85   | 85.9 |      |
|                    | Minimum... 68 | 63 | 66 | 59 | 57 | 60 | 64 | 62 | 60 | 63 | 68 | 63 | 67 | 69 | 64 | 68 | 68 | 64 | 59  | 68 | 70 | 72 | 65 | 60 | 52 | 55 | 69 | 69 | 69 | 58 | 52   | 63.6 |      |
| Corry.....         | Maximum... 72 | 68 | 67 | 66 | 78 | 83 | 80 | 78 | 80 | 82 | 74 | 74 | 86 | 92 | 75 | 81 | 82 | 80 | 90  | 81 | 82 | 84 | 89 | 83 | 84 | 87 | 78 | 79 | 81 | 69 | 75   | 81   | 79.4 |
|                    | Minimum... 52 | 41 | 44 | 47 | 45 | 49 | 58 | 52 | 59 | 60 | 56 | 49 | 62 | 69 | 58 | 60 | 59 | 60 | 66  | 69 | 64 | 57 | 49 | 46 | 60 | 65 | 60 | 53 | 48 | 45 | 45   | 55.2 |      |
| Coudersport.....   | Maximum... 84 | 66 | 70 | 74 | 75 | 83 | 83 | 71 | 80 | 82 | 77 | 79 | 89 | 89 | 82 | 79 | 85 | 83 | 88  | 88 | 83 | 87 | 85 | 75 | 84 | 84 | 81 | 81 | 81 | 72 | 79   | 80.6 |      |
|                    | Minimum... 51 | 53 | 39 | 53 | 41 | 50 | 51 | 58 | 52 | 49 | 56 | 46 | 50 | 66 | 50 | 56 | 59 | 50 | 47  | 60 | 65 | 63 | 57 | 51 | 42 | 48 | 64 | 55 | 58 | 61 | 49   | 58.0 |      |
| Emporium.....      | Maximum... 87 | 67 | 72 | 75 | 75 | 83 | 83 | 72 | 80 | 82 | 77 | 79 | 88 | 85 | 76 | 79 | 86 | 80 | 88  | 78 | 85 | 85 | 78 | 75 | 81 | 85 | 81 | 80 | 73 | 72 | 78   | 79.5 |      |
|                    | Minimum... 56 | 58 | 46 | 58 | 46 | 56 | 56 | 52 | 53 | 56 | 61 | 63 | 56 | 61 | 68 | 67 | 78 | 77 | 85  | 84 | 86 | 83 | 70 | 72 | 83 | 83 | 75 | 81 | 69 | 73 | 77.0 |      |      |
| Erie.....          | Maximum... 84 | 66 | 69 | 67 | 69 | 79 | 76 | 71 | 77 | 82 | 72 | 78 | 86 | 79 | 76 | 81 | 78 | 73 | 85  | 84 | 86 | 83 | 70 | 72 | 83 | 83 | 75 | 81 | 69 | 73 | 62   | 63.0 |      |
|                    | Minimum... 64 | 56 | 53 | 57 | 53 | 62 | 64 | 61 | 63 | 66 | 64 | 69 | 69 | 67 | 66 | 67 | 68 | 63 | 68  | 73 | 71 | 70 | 61 | 60 | 59 | 65 | 64 | 58 | 62 | 58 | 86   | 84.5 |      |
| Franklin.....      | Maximum... 35 | 69 | 75 | 77 | 80 | 87 | 84 | 78 | 85 | 88 | 78 | 85 | 95 | 91 | 82 | 85 | 87 | 58 | 57  | 55 | 67 | 64 | 60 | 48 | 47 | 53 | 65 | 53 | 58 | 48 | 48   | 55.2 |      |
|                    | Minimum... 59 | 54 | 45 | 57 | 45 | 50 | 55 | 59 | 55 | 53 | 53 | 51 | 55 | 60 | 57 | 62 | 61 | 58 | 79  | 86 | 80 | 83 | 82 | 82 | 70 | 78 | 82 | 84 | 81 | 75 | 70   | 77.8 |      |
| Freeland.....      | Maximum... 87 | 63 | 70 | 74 | 74 | 68 | 83 | 74 | 80 | 84 | 78 | 75 | 86 | 82 | 76 | 82 | 76 | 59 | 57  | 59 | 63 | 65 | 63 | 62 | 52 | 56 | 56 | 66 | 63 | 61 | 53   | 54   | 58.5 |
|                    | Minimum... 63 | 57 | 48 | 56 | 49 | 56 | 58 | 56 | 62 | 64 | 56 | 62 | 68 | 55 | 64 | 67 | 68 | 55 | 64  | 67 | 63 | 62 | 63 | 68 | 70 | 65 | 56 | 56 | 59 | 71 | 68   | 77.4 |      |
| Gettysburg.....    | Maximum... 93 | 81 | 81 | 81 | 81 | 79 | 87 | 83 | 87 | 89 | 87 | 86 | 94 | 94 | 89 | 83 | 93 | 92 | 97  | 94 | 85 | 92 | 90 | 86 | 85 | 87 | 88 | 90 | 88 | 79 | 84   | 87.3 |      |
|                    | Minimum... 70 | 60 | 56 | 61 | 56 | 65 | 64 | 60 | 61 | 61 | 72 | 62 | 65 | 75 | 65 | 64 | 67 | 63 | 62  | 63 | 68 | 70 | 65 | 56 | 56 | 59 | 71 | 68 | 67 | 56 | 55   | 63.3 |      |
| Greensburg.....    | Maximum... 88 | 78 | 81 | 87 | 79 | 87 | 86 | 76 | 82 | 84 | 81 | 87 | 90 | 91 | 86 | 84 | 89 | 84 | 94  | 94 | 94 | 91 | 91 | 78 | 87 | 91 | 84 | 87 | 81 | 78 | 82   | 85.5 |      |
|                    | Minimum... 68 | 56 | 50 | 61 | 51 | 63 | 59 | 60 | 57 | 59 | 65 | 53 | 58 | 69 | 60 | 66 | 67 | 56 | 58  | 68 | 74 | 66 | 66 | 49 | 51 | 59 | 66 | 61 | 62 | 53 | 52   | 60.1 |      |
| Grove City.....    | Maximum... 86 | 68 | 71 | 72 | 74 | 83 | 81 | 74 | 80 | 79 | 75 | 83 | 88 | 89 | 84 | 84 | 85 | 85 | 89  | 90 | 89 | 89 | 85 | 78 | 88 | 85 | 82 | 84 | 81 | 75 | 82   | 81.7 |      |
|                    | Minimum... 65 | 52 | 51 | 58 | 48 | 60 | 63 | 57 | 62 | 65 | 67 | 60 | 61 | 63 | 65 | 55 | 57 | 59 | 69  | 66 | 62 | 66 | 62 | 66 | 62 | 66 | 62 | 66 | 62 | 62 | 62   | 62   | 59.3 |
| Hamburg.....       | Maximum... 91 | 87 | 80 | 78 | 80 | 80 | 87 | 85 | 85 | 85 | 87 | 87 | 90 | 91 | 88 | 84 | 89 | 92 | 94  | 93 | 86 | 87 | 87 | 87 | 84 | 86 | 85 | 85 | 86 | 83 | 84   | 86.2 |      |
|                    | Minimum... 66 | 58 | 57 | 56 | 52 | 56 | 63 | 61 | 55 | 55 | 58 | 60 | 63 | 70 | 58 | 53 | 54 | 60 | 63  | 67 | 68 | 62 | 62 | 54 | 53 | 59 | 66 | 48 | 62 | 60 | 54   | 58.8 |      |
| Harrisburg.....    | Maximum... 92 | 72 | 77 | 82 | 81 | 71 | 77 | 85 | 88 | 84 | 82 | 82 | 89 | 83 | 84 | 93 | 87 | 95 | 87  | 87 | 88 | 88 | 78 | 87 | 87 | 85 | 91 | 80 | 79 | 84 | 84.6 |      |      |
|                    | Minimum... 68 | 62 | 57 | 62 | 59 | 61 | 65 | 63 | 63 | 64 | 69 | 65 | 68 | 75 | 65 | 67 | 67 | 70 | 66  | 65 | 72 | 70 | 66 | 61 | 59 | 63 | 71 | 71 | 68 | 60 | 59   | 83.1 |      |
| Hawley.....        | Maximum... 88 | 81 | 75 | 76 | 78 | 75 | 87 | 78 | 82 | 88 | 82 | 78 | 92 | 90 | 86 | 83 | 90 | 81 | 85  | 85 | 87 | 84 | 87 | 75 | 86 | 86 | 87 | 86 | 84 | 77 | 52   | 54.7 |      |
|                    | Minimum... 53 | 57 | 49 | 55 | 46 | 49 | 57 | 57 | 52 | 51 | 66 | 55 | 59 | 65 | 45 | 47 | 58 | 56 | 49  | 63 | 65 | 67 | 5  |    |    |    |    |    |    |    |      |      |      |







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# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVII.

AUGUST, 1932.

No. 8.

## GENERAL SUMMARY.

August was hot and dry, and served to further intensify a drought condition that began in the greater portion of the State during April. The excess in temperature increased the harmful effects of the shortage in moisture by hastening the maturity of crops before growth and development reached the proper stages. This drought condition is comparable with that of 1930, and in some parts of the State it is even more intense. Early planted corn, comprising approximately two-thirds of the crop, withstood the drought in July fairly well, and was in condition to develop fairly large ears during the early part of August. That portion of the crop is fully up to the ten-year average. Later plantings were badly stunted, and many fields developed only nubbins. A large portion of these late plantings was used for ensilage, and silo filling was in full swing during the last week. Pastures and meadows suffered severely from the drought. Pastures became very short and weedy, and at the end of the month they gradually had the appearance of late September. The second crop of hay was light in most places, but was mostly cured during favorable weather, and with small losses. Wheat ground was largely prepared for seeding by the end of the month, but the soil was extremely dry, and it was evident that the beginning of seeding would await more favorable conditions. Potatoes were reported in all conditions from poor to good. The drought was not quite so severe in the chief potato growing regions as it was in the greater portion of the State. Truck crops, excepting tomatoes, were only fair, and were deteriorating steadily during the latter part of the month. Tobacco was generally the poorest crop for many years. The drought was becoming well established at the time that plants were set out in the fields, and they were handicapped from the start. There seemed to be fewer local storms of a severe character than usually occur during August. On the 7th there were severe thunderstorms in Lancaster County during which many buildings were struck and fired by lightning. Damage that was reported was estimated to be between \$30,000 and \$40,000. Some damage by lightning was reported from Montgomery County on the same date, a large barn and its contents being burned, value \$3,000.

## TEMPERATURE.

The mean temperature for the State, as deduced from the reports of 88 stations, was 71.6°, which is 1.6° in excess of the normal for August. The highest monthly mean was 78.8° at Marcus Hook, and the lowest was 60.4° at Gouldsboro. Extremes of temperature ranged from a maximum of 103° at Lock Haven on the 31st, to a minimum of 34° at Kane on the 20th. The greatest daily range in temperature was 53° at Wellsboro on the 16th.

## PRECIPITATION.

The average precipitation for the State, as shown by the reports from 143 stations, was 2.82 inches, which is 1.35 inches less than the normal for the month. The greatest amount for the month was 6.81 inches at Reading, while the least, 1.09 inches, occurred at Harrisburg. The greatest amount recorded in any 24 consecutive hours was 3.94 inches at Reading on the 7th.

## COMPARATIVE DATA FOR AUGUST

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 69.8        | 100     | 33     | 7.05          | 11.27    | 3.18  | .....       | .....         | .....  | .....                  |
| 1889.....                | 67.4        | 100     | 37     | 3.24          | 7.07     | 0.83  | .....       | .....         | .....  | .....                  |
| 1890.....                | 68.8        | 98      | 34     | 5.76          | 9.65     | 2.58  | 9           | 14            | 8      | 12                     |
| 1891.....                | 69.6        | 99      | 35     | 5.09          | 11.77    | 1.43  | 8           | 12            | 11     | 12                     |
| 1892.....                | 71.4        | 99      | 42     | 3.77          | 7.64     | 1.07  | 14          | 7             | 10     | 9                      |
| 1893.....                | 70.4        | 99      | 30     | 4.50          | 9.99     | 1.68  | 14          | 10            | 7      | 8                      |
| 1894.....                | 69.4        | 98      | 32     | 1.84          | 5.51     | 0.17  | 13          | 12            | 6      | 6                      |
| 1895.....                | 72.3        | 101     | 32     | 3.23          | 6.03     | 0.59  | 15          | 11            | 5      | 9                      |
| 1896.....                | 71.2        | 101     | 35     | 2.22          | 6.53     | 0.45  | 14          | 11            | 6      | 8                      |
| 1897.....                | 67.9        | 97      | 34     | 3.17          | 8.60     | 0.34  | 14          | 11            | 6      | 9                      |
| 1898.....                | 72.3        | 99      | 37     | 6.60          | 11.32    | 3.72  | 11          | 11            | 9      | 12                     |
| 1899.....                | 71.2        | 101     | 38     | 4.01          | 10.09    | 0.07  | 14          | 10            | 7      | 7                      |
| 1900.....                | 75.0        | 103     | 38     | 3.33          | 5.78     | 0.84  | 14          | 12            | 5      | 9                      |
| 1901.....                | 72.0        | 99      | 42     | 6.81          | 13.65    | 2.48  | 10          | 12            | 9      | 11                     |
| 1902.....                | 67.8        | 100     | 34     | 2.62          | 6.44     | 0.51  | 13          | 13            | 5      | 8                      |
| 1903.....                | 67.2        | 99      | 36     | 5.29          | 8.05     | 2.00  | 9           | 12            | 10     | 14                     |
| 1904.....                | 68.0        | 96      | 34     | 4.36          | 9.64     | 1.66  | 15          | 10            | 6      | 9                      |
| 1905.....                | 69.6        | 95      | 36     | 5.71          | 10.83    | 1.92  | 12          | 12            | 7      | 12                     |
| 1906.....                | 73.2        | 96      | 39     | 5.62          | 11.65    | 1.62  | 10          | 12            | 9      | 12                     |
| 1907.....                | 68.0        | 97      | 32     | 2.94          | 6.19     | 0.77  | 16          | 9             | 9      | 10                     |
| 1908.....                | 69.4        | 102     | 30     | 3.22          | 8.06     | 1.22  | 15          | 10            | 6      | 7                      |
| 1909.....                | 69.4        | 100     | 34     | 2.31          | 7.76     | 0.12  | 16          | 9             | 6      | 7                      |
| 1910.....                | 69.8        | 98      | 35     | 2.61          | 6.46     | 0.55  | 14          | 10            | 7      | 6                      |
| 1911.....                | 71.4        | 102     | 36     | 7.63          | 15.14    | 2.60  | 11          | 8             | 12     | 13                     |
| 1912.....                | 67.1        | 93      | 36     | 5.02          | 9.65     | 1.68  | 9           | 12            | 10     | 14                     |
| 1913.....                | 70.4        | 102     | 38     | 2.69          | 10.93    | 0.70  | 17          | 9             | 5      | 8                      |
| 1914.....                | 71.3        | 100     | 34     | 3.85          | 7.20     | 0.64  | 13          | 11            | 7      | 11                     |
| 1915.....                | 68.0        | 99      | 34     | 6.71          | 14.44    | 1.92  | 10          | 11            | 10     | 15                     |
| 1916.....                | 71.9        | 103     | 32     | 2.57          | 7.08     | 0.21  | 17          | 10            | 4      | 8                      |
| 1917.....                | 71.2        | 101     | 38     | 6.69          | 17.50    | 1.06  | 15          | 10            | 6      | 10                     |
| 1918.....                | 73.6        | 108     | 32     | 4.12          | 8.02     | 1.05  | 16          | 10            | 5      | 11                     |
| 1919.....                | 68.2        | 94      | 35     | 5.43          | 12.03    | 2.35  | 13          | 10            | 8      | 12                     |
| 1920.....                | 70.2        | 95      | 37     | 4.66          | 9.29     | 1.93  | 9           | 12            | 10     | 15                     |
| 1921.....                | 68.4        | 97      | 35     | 3.83          | 6.68     | 1.81  | 17          | 8             | 6      | 9                      |
| 1922.....                | 69.1        | 100     | 31     | 3.14          | 8.16     | 1.15  | 15          | 9             | 7      | 10                     |
| 1923.....                | 69.2        | 96      | 30     | 3.10          | 7.30     | 0.59  | 15          | 11            | 5      | 9                      |
| 1924.....                | 70.1        | 102     | 31     | 3.78          | 7.54     | 1.48  | 16          | 10            | 5      | 9                      |
| 1925.....                | 69.7        | 97      | 26     | 2.28          | 5.14     | 0.65  | 18          | 9             | 4      | 7                      |
| 1926.....                | 71.9        | 103     | 32     | 5.69          | 10.04    | 2.95  | 11          | 8             | 12     | 15                     |
| 1927.....                | 65.5        | 92      | 34     | 4.12          | 11.49    | 1.13  | 12          | 10            | 9      | 12                     |
| 1928.....                | 73.4        | 99      | 35     | 4.60          | 10.87    | 1.32  | 13          | 11            | 7      | 12                     |
| 1929.....                | 67.7        | 98      | 31     | 2.52          | 7.20     | 0.20  | 17          | 8             | 6      | 7                      |
| 1930.....                | 70.3        | 108     | 29     | 1.47          | 4.12     | 0.29  | 15          | 10            | 6      | 7                      |
| 1931.....                | 71.1        | 104     | 40     | 4.01          | 8.78     | 1.30  | 11          | 10            | 10     | 12                     |
| 1932.....                | 71.6        | 103     | 34     | 2.82          | 6.81     | 1.09  | 19          | 8             | 4      | 8                      |
| Normal and Extremes..... | 70.0        | .....   | 26     | 4.17          | 17.50    | 0.07  | 13          | 11            | 7      | 10                     |



## Climatological Data for August, 1932

| Stations              | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                  |       |                 |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|-----------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|------------------|-------|-----------------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                       |                   |                 |                         | Mean                         | Departure from the normal | Highest          | Date  | Lowest          | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage.    |                   |                 |                         |                              |                           |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown.....        | Lehigh.....       | 254             | 20                      | 72.4                         | .....                     | 94               | 31    | 52              | 21    | 33                       | 3.17  | -1.44                     | 1.20                 | 0                         | 7                            | 24    | 1          | 6                            | sw.       | John A. Frick.              |
| Altoona.....          | Blair.....        | 1,615           | 45                      | 70.0                         | +1.0                      | 95               | 31    | 44              | 20    | 38                       | 2.42  | -0.91                     | 0.66                 | 0                         | 8                            | 23    | 7          | 1                            | w.        | F. E. Rooney.               |
| Ardmore.....          | Montgomery.....   | 350             | .....                   | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | H. G. Balderston.           |
| Arendtsville.....     | Adams.....        | 700             | 10                      | 73.1                         | .....                     | 96               | 31    | 52              | 22    | 39                       | 2.30  | .....                     | 0.60                 | 0                         | 7                            | 28    | 0          | 3                            | n.        | Dr. S. W. Frost.            |
| Bedford.....          | Bedford.....      | 1,060           | .....                   | 72.6                         | .....                     | 96               | 16†   | 44              | 21    | 45                       | 2.29  | .....                     | 0.92                 | 0                         | 10                           | 24    | 1          | 6                            | nw.       | Charles C. Lee.             |
| Bellefonte.....       | Center.....       | 1,050           | 24                      | 69.2                         | -1.6                      | 94               | 31    | 44              | 21    | 39                       | 3.85  | +0.01                     | 1.11                 | 0                         | 7                            | 17    | 8          | 6                            | .....     | U. S. Weather Bureau.       |
| Bethlehem.....        | Northampton.....  | 364             | 47                      | 75.1                         | +2.3                      | 97               | 31    | 55              | 21    | 34                       | 2.92  | -1.38                     | 1.22                 | 0                         | 8                            | 19    | 4          | 8                            | w.        | Lehigh University.          |
| Carlisle.....         | Cumberland.....   | 467             | 66                      | 75.2                         | +2.6                      | 100              | 31    | 46              | 21    | 48                       | 1.59  | -2.85                     | 0.94                 | 0                         | 7                            | 25    | 3          | 3                            | s.        | Prof. C. E. Miller.         |
| Catawissa.....        | Columbia.....     | 520             | 36                      | 73.5                         | +3.2                      | 98               | 31    | 46              | 21    | 42                       | 2.04  | -1.72                     | 0.50                 | 0                         | 5                            | 24    | 3          | 4                            | w.        | W. L. Gearhart.             |
| Center Hall.....      | Center.....       | 1,272           | 36                      | 67.4                         | -1.3                      | 89               | 6     | 40              | 13    | 39                       | 4.99  | +1.31                     | 1.68                 | 0                         | 6                            | 23    | 7          | 1                            | .....     | S. W. Smith.                |
| Chambersburg.....     | Franklin.....     | 580             | 33                      | 75.1                         | +3.3                      | 102              | 31    | 49              | 21    | 40                       | 1.82  | -2.14                     | 0.93                 | 0                         | 7                            | 18    | 10         | 3                            | s.        | William B. Spear.           |
| Clearfield.....       | Clearfield.....   | 1,120           | 25                      | 70.3                         | +0.4                      | 97               | 31    | 45              | 13†   | 47                       | 3.06  | -1.05                     | 1.00                 | 0                         | 5                            | 13    | 14         | 4                            | w.        | E. W. Hess.                 |
| Coatesville.....      | Chester.....      | 380             | 45                      | 74.0                         | +1.5                      | 96               | 31    | 57              | 13†   | 34                       | 4.66  | +0.29                     | 2.00                 | 0                         | 9                            | 25    | 3          | 3                            | nw.       | Howard L. Pyle.             |
| Colebrook.....        | Lebanon.....      | 560             | 21                      | 71.2                         | +0.9                      | 93               | 31    | 49              | 21    | 36                       | 3.29  | -1.36                     | 1.01                 | 0                         | 11                           | 22    | 5          | 4                            | sw.       | Wm. A. Rorer.               |
| Emporium.....         | Cameron.....      | 1,050           | 45                      | 68.0                         | +0.6                      | 92               | 31    | 43              | 21    | 35                       | 3.12  | -0.77                     | 1.77                 | 0                         | 9                            | 19    | 10         | 2                            | nw.       | T. B. Lloyd.                |
| Ephrata.....          | Lancaster.....    | 380             | 40                      | 75.8                         | +4.2                      | 98               | 31    | 53              | 21    | 38                       | 4.57  | +0.04                     | 0.88                 | 0                         | 10                           | 21    | 4          | 6                            | s.        | Ira J. Keath.               |
| Freeland.....         | Luzerne.....      | 1,970           | 39                      | 69.9                         | +3.7                      | 88               | 31    | 52              | 13    | 24                       | 2.47  | -2.18                     | 1.42                 | 0                         | 9                            | 14    | 11         | 6                            | nw.       | Theo. Reichmann.            |
| George School.....    | Bucks.....        | 190             | 26                      | 73.6                         | +2.2                      | 96               | 31    | 53              | 27    | 37                       | 2.40  | -2.20                     | 1.13                 | 0                         | 8                            | 22    | 6          | 3                            | s.        | Prof. N. W. Swayne          |
| Gettysburg.....       | Adams.....        | 553             | 59                      | 75.1                         | +3.2                      | 98               | 31    | 54              | 21    | 35                       | 2.70  | -1.22                     | 0.95                 | 0                         | 9                            | 23    | 5          | 3                            | s.        | Dr. Henry Stewart           |
| Gordon.....           | Schuylkill.....   | 840             | 28                      | 70.8                         | +3.0                      | 95               | 31    | 41              | 14    | 46                       | 1.82  | -2.42                     | 0.88                 | 0                         | 8                            | 23    | 6          | 2                            | w.        | Sallie M. Johnson.          |
| Gouldsboro.....       | Wayne.....        | 1,875           | 17                      | 60.4                         | .....                     | 81               | 26    | 42              | 21    | 30                       | 3.58  | -0.76                     | 2.15                 | 0                         | 6                            | 22    | 8          | 1                            | sw.       | Gustav Holtz.               |
| Hamburg.....          | Berks.....        | 535             | 39                      | 71.8                         | +0.6                      | 96               | 6     | 48              | 10    | 44                       | 3.94  | -1.06                     | 1.68                 | 0                         | 6                            | 19    | 8          | 4                            | w.        | State Sanatorium.           |
| Hanover.....          | York.....         | 600             | 28                      | 75.9                         | +2.8                      | 98               | 31    | 54              | 21    | 34                       | 4.08  | -0.18                     | 1.57                 | 0                         | 8                            | 21    | 6          | 4                            | w.        | Thomas Y. Cooper.           |
| Harrisburg.....       | Dauphin.....      | 361             | 63                      | 75.6                         | +3.0                      | 98               | 31    | 55              | 21    | 31                       | 1.09  | -2.95                     | 0.65                 | 0                         | 6                            | 17    | 9          | 5                            | nw.       | U. S. Weather Bureau.       |
| Hawley.....           | Wayne.....        | 900             | 14                      | 68.5                         | -0.7                      | 92               | 31    | 42              | 21    | 41                       | 4.08  | +0.03                     | 1.44                 | 0                         | 8                            | 22    | 7          | 2                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood.....         | Lancaster.....    | 200             | 17                      | 78.5                         | +5.0                      | 96               | 7     | 63              | 15†   | 29                       | 3.43  | -0.32                     | 1.08                 | 0                         | 8                            | 16    | 13         | 2                            | w.        | H. W. Lowy, C. E.           |
| Huntingdon.....       | Huntingdon.....   | 650             | 45                      | 72.4 <sup>b</sup>            | .....                     | 100 <sup>b</sup> | 31    | 46 <sup>b</sup> | 21    | 45 <sup>b</sup>          | 2.85  | -0.93                     | 1.45                 | 0                         | 6                            | 22    | 5          | 4                            | w.        | Prof. Paul R. Yoder.        |
| Hyndman.....          | Bedford.....      | 977             | 20                      | 73.4                         | +2.5                      | 101              | 31    | 44              | 21    | 46                       | 1.96  | -1.82                     | 1.00                 | 0                         | 8                            | 19    | 6          | 6                            | s.        | Horace A. Sheavly.          |
| Lancaster.....        | Lancaster.....    | 255             | 45                      | 72.2                         | +0.2                      | 100              | 31    | 46              | 21    | 41                       | 5.23  | +1.43                     | 2.74                 | 0                         | 9                            | 24    | 4          | 3                            | s.        | Supt. of Water Works.       |
| Lawrenceville.....    | Tioga.....        | 1,000           | 35                      | 70.2                         | +2.3                      | 98               | 31    | 44              | 21    | 47                       | 1.44  | -2.11                     | 0.55                 | 0                         | 5                            | 21    | 8          | 2                            | .....     | C. P. Darling.              |
| Lebanon.....          | Lebanon.....      | 469             | 48                      | 74.4                         | +2.6                      | 98               | 31    | 50              | 21    | 35                       | 2.22  | -2.08                     | 0.68                 | 0                         | 9                            | 20    | 8          | 3                            | w.        | S. B. Benzing.              |
| Lewisburg.....        | Union.....        | 450             | 56                      | 76.2                         | +5.4                      | 102              | 31    | 48              | 21    | 44                       | 1.24  | -3.14                     | 0.42                 | 0                         | 6                            | 23    | 3          | 5                            | w.        | Prof. W. G. Owens.          |
| Lock Haven.....       | Clinton.....      | 560             | 42                      | 74.2                         | +3.1                      | 103              | 31    | 49              | 22    | 43                       | 2.70  | -1.37                     | 1.35                 | 0                         | 8                            | 16    | 13         | 2                            | sw.       | Joseph Beaver.              |
| Lykens.....           | Dauphin.....      | 680             | 17                      | 73.0                         | +3.0                      | 99               | 31    | 45              | 21    | 48                       | 2.59  | -1.12                     | 0.66                 | 0                         | 10                           | 26    | 4          | 1                            | sw.       | Susquehanna Collieries Co.  |
| Marcus Hook.....      | Delaware.....     | 50              | 5                       | 78.8 <sup>a</sup>            | .....                     | 99 <sup>c</sup>  | 31    | 60 <sup>c</sup> | 22    | 31 <sup>c</sup>          | 1.36  | .....                     | 0.46                 | 0                         | 5                            | 27    | 1          | 3                            | ne.       | Sun Oil Co.                 |
| Mauch Chunk.....      | Carbon.....       | 600             | 43                      | 71.0                         | +1.0                      | 98               | 31    | 46              | 21    | 43                       | 3.49  | -1.27                     | 1.53                 | 0                         | 6                            | 20    | 5          | 6                            | w.        | R. K. Wintermute.           |
| Millintown.....       | Juniata.....      | 445             | 28                      | 72.8                         | +2.3                      | 97               | 31    | 46              | 21    | 42                       | 1.96  | -1.97                     | 0.65                 | 0                         | 8                            | 20    | 3          | 8                            | w.        | Wellington Smith.           |
| Montrose.....         | Susquehanna.....  | 1,720           | 28                      | 67.0                         | +0.7                      | 90               | 31    | 48              | 20    | 30                       | 2.94  | -1.28                     | 1.69                 | 0                         | 7                            | 24    | 4          | 3                            | w.        | Silas Jagger.               |
| Mt. Pocono.....       | Monroe.....       | 1,658           | 26                      | 62.6                         | +1.2                      | 84               | 31    | 42              | 12    | 33                       | 3.24  | -1.00                     | 1.50                 | 0                         | 9                            | 25    | 2          | 4                            | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley.....     | Sullivan.....     | 1,045           | 20                      | 68.6 <sup>a</sup>            | +1.0                      | 97 <sup>a</sup>  | 31    | 45 <sup>a</sup> | 14†   | 43                       | 2.70  | -1.90                     | 0.84                 | 0                         | 8                            | 20    | 8          | 3                            | w.        | H. O. Hacker.               |
| Neshaminy Falls†..... | Bucks.....        | 60              | 43                      | 73.4                         | +1.7                      | 93               | 31    | 56              | 21    | 32                       | 6.34  | +1.52                     | 2.85                 | 0                         | 7                            | 15    | 12         | 4                            | w.        | Philadelphia Sub. Water Co. |
| Palmerton.....        | Carbon.....       | 398             | 14                      | 71.8                         | .....                     | 94               | 31    | 49              | 21    | 33                       | 3.12  | -0.59                     | 1.42                 | 0                         | 7                            | 19    | 8          | 4                            | nw.       | New Jersey Zinc Co.         |
| Philadelphia.....     | Philadelphia..... | 114             | 61                      | 77.7                         | +2.9                      | 95               | 31    | 65              | 13    | 23                       | 3.07  | -1.55                     | 1.35                 | 0                         | 10                           | 14    | 12         | 5                            | s.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn..... | Philadelphia..... | 113             | 8                       | 77.6                         | .....                     | 97               | 31    | 62              | 13†   | 27                       | 4.06  | .....                     | 2.11                 | 0                         | 11                           | 10    | 17         | 4                            | .....     | Julius Bernstein.           |
| Phila. Navy Yard..... | Philadelphia..... | 12              | 16                      | 75.8                         | +1.6                      | 94               | 31    | 61              | 22    | 25                       | 3.10  | -1.44                     | 1.05                 | 0                         | 7                            | ..... | .....      | .....                        | .....     | Commandant, Navy Yard.      |
| Phoenixville.....     | Chester.....      | 100             | 22                      | 76.1                         | +3.0                      | 101              | 6     | 53              | 22    | 41                       | 4.52  | -0.14                     | 1.47                 | 0                         | 6                            | 18    | 12         | 1                            | w.        | Philadelphia Sub. Water Co. |
| Quakertown.....       | Bucks.....        | 496             | 47                      | 71.1                         | +0.9                      | 94               | 31    | 48              | 21    | 40                       | 2.99  | -1.38                     | 0.75                 | 0                         | 10                           | 15    | 14         | 2                            | nw.       | John E. Benner.             |
| Reading.....          | Berks.....        | 325             | 60                      | 75.5                         | +3.1                      | 97               | 31    | 57              | 21    | 29                       | 6.81  | +2.60                     | 3.94                 | 0                         | 6                            | 14    | 10         | 7                            | sw.       | U. S. Weather Bureau.       |
| Seranton.....         | Lackawanna.....   | 805             | 38                      | 71.6                         | +1.8                      | 95               | 31    | 50              | 21    | 34                       | 2.60  | -1.09                     | 0.98                 | 0                         | 6                            | 12    | 16         | 3                            | n.        | U. S. Weather Bureau.       |
| Selinsgrove.....      | Snyder.....       | 455             | 42                      | 74.2                         | +3.0                      | 98               | 31    | 47              | 21    | 43                       | 1.74  | -2.32                     | 0.70                 | 0                         | 7                            | 15    | 13         | 3                            | w.        | Dr. George E. Fisher.       |
| Shawmont†.....        | Philadelphia..... | 51              | 36                      | 75.5                         | +2.3                      | 93               | 31    | 57              | 22    | 30                       | 2.79  | -2.24                     | 1.32                 | 0                         | 7                            | 19    | 10         | 2                            | nw.       | W. S. Guiles.               |
| State College.....    | Center.....       | 1,217           | 48                      | 70.6                         | +2.1                      | 95               | 31    | 47              | 20†   | 35                       | 2.72  | -0.79                     | 0.77                 | 0                         | 6                            | 22    | 7          | 2                            | w.        | C. A. Kern.                 |
| Stroudsburg.....      | Monroe.....       | 500             | 18                      | 70.8                         | +1.8                      | 95               | 31    | 45              | 21    | 41                       | 2.50  | -2.47                     | 1.50                 | 0                         | 7                            | 23    | 5          | 3                            | w.        | State Normal School.        |
| Towanda.....          | Bradford.....     | 754             | 38                      | 69.6                         | +1.4                      | 96               | 31    | 46              | 21    | 39                       | 1.72  | -1.71                     | 0.70                 | 0                         | 7                            | 8     | 19         | 4                            | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro.....        | Tioga.....        | 1,419           | 62                      | 69.4                         | +3.3                      | 100              | 31    | 40              | 20    | 53                       | 1.20  | -2.31                     | 0.34                 | 0                         | 6                            | 19    | 8          | 4                            | w.        | George W. Hill.             |
| West Chester.....     | Chester.....      | 455             | 83                      | 74.0                         | +2.1                      | 93               | 31    | 59              | 13†   | 25                       | 2.99  | -1.64                     | 0.77                 | 0                         | 7                            | 18    | 10         | 3                            | s.        | Joseph W. Belt.             |
| Williamsport.....     | Lycoming.....     | 521             | 46                      | 73.6                         | +2.9                      | 101              | 31    | 48              | 21    | 39                       | 1.70  | -2.28                     | 0.60                 | 0                         | 11                           | 17    | 7          | 7                            | nw.       | Miss Veronica E. April.     |
| York.....             | York.....         | 400             | 44                      | 74.2                         | +2.0                      | 100              | 31    | 48              | 21    | 40                       | 1.84  | -2.11                     | 0.58                 | 0                         | 8                            | 21    | 7          | 3                            | w.        | York Water Co.              |
| Ohio Drainage.        |                   |                 |                         |                              |                           |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam†.....      | Beaver.....       | 700             | 40                      | 70.6                         | -1.3                      | 93               | 30†   | 46              | 20    | 36                       | 1.85  | -1.67                     | 0.64                 | 0                         | 8                            | 10    | 13         | 8                            | sw.       | U. S. Engineer.             |
| Bradford.....         | McKean.....       | 1,460           | 13                      | 66.1                         | -0.8                      | 91               | 31    | 36              | 21    | 44                       | 1.78  | -1.47                     | 0.48                 | 0                         | 8                            | 14    | 10         | 7                            | sw.       | Supt. Timber Pres. Plant.   |
| Brookville.....       | Jefferson.....    | 1,173           | 42                      | 65.0 <sup>b</sup>            | -0.6                      | 94 <sup>b</sup>  | 31    | 36 <sup>b</sup> | 1     | 48 <sup>b</sup>          | 1.66  | -2.21                     | 0.60                 | 0                         | 7                            | 21    | 3          | 7                            | .....     | John Fawcett.               |
| Butler.....           | Butler.....       | 1,077           | 19                      | 69.6                         | .....                     |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



Daily Precipitation for August, 1932

| Stations           | Drainage Basin | Day of month |     |     |      |     |     |      |      |     |      |      |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      |      |     |      | Total |      |      |
|--------------------|----------------|--------------|-----|-----|------|-----|-----|------|------|-----|------|------|----|----|----|----|----|----|------|------|-----|----|----|----|----|----|----|-----|------|------|-----|------|-------|------|------|
|                    |                | 1            | 2   | 3   | 4    | 5   | 6   | 7    | 8    | 9   | 10   | 11   | 12 | 13 | 14 | 15 | 16 | 17 | 18   | 19   | 20  | 21 | 22 | 23 | 24 | 25 | 26 | 27  | 28   | 29   | 30  | 31   |       |      |      |
| Atlantic Drainage. |                |              |     |     |      |     |     |      |      |     |      |      |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      |      |     |      |       |      |      |
| Allentown          | Lehigh         | T.           | .01 | .06 | .05  |     |     |      | 1.20 |     |      | .46  |    |    |    |    |    |    |      | .79  |     |    |    |    |    |    |    |     | .60  |      |     |      | 3.17  |      |      |
| Altoona            | Juniata        |              | .06 | .03 | .02  |     |     |      |      |     | .66  | T.   |    |    |    |    |    |    | .45  |      |     |    |    |    |    |    |    |     | .50  | .17  | .53 |      | 2.42  |      |      |
| Ansonia            | W. Br. Susq.   | .01          |     | .03 | .33  |     |     | T.   |      |     | .16  |      |    |    |    |    |    |    | .90  | .20  |     |    |    |    |    |    |    | .02 |      |      | .03 | .08  | 1.98  |      |      |
| Ardmore            | Lower Del.     |              |     |     |      |     |     |      |      |     |      |      |    |    |    |    |    |    |      | .27  | .27 |    |    |    |    |    |    |     |      | .60  | .25 |      | 2.30  |      |      |
| Arendtsville       | Lower Susq.    |              |     | .21 | .39  |     |     |      |      |     | .31  |      |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      | .03  | .19 |      | 2.51  |      |      |
| Baker's Summit     | Juniata        |              |     | .03 | .18  |     |     | .63  | .17  |     | .04  | .20  |    |    |    |    |    |    | 1.04 |      |     |    |    |    |    |    |    |     | .02  | .18  | .20 |      | 2.29  |      |      |
| Bedford            | Juniata        |              |     | .27 | .22  |     |     | .01  | .06  |     | .21  | .20  |    |    |    |    |    |    | .92  |      |     |    |    |    |    |    |    |     | .20  | 1.05 | .06 |      | 3.85  |      |      |
| Bellefonte         | W. Br. Susq.   | T.           | .65 |     |      |     |     | T.   | .03  |     | .99  |      |    |    |    |    |    | T. | .87  |      |     |    |    |    |    |    |    |     | .49  |      |     |      | 2.92  |      |      |
| Bethlehem          | Lehigh         |              |     | .13 | .01  |     |     | .51  | .71  |     |      | .38  |    |    |    |    |    |    | .66  | .03  |     |    |    |    |    |    |    |     |      |      | .40 |      | 1.46  |      |      |
| Blosserville       | Lower Susq.    |              |     | .32 |      |     |     |      |      |     | .24  |      |    |    |    |    |    |    | .50  |      |     |    |    |    |    |    |    |     |      |      | .24 |      | 1.63  |      |      |
| Blosserville II    | Lower Susq.    |              | .09 |     | .80  |     |     |      |      |     |      |      |    |    |    |    |    |    | .60  | .40  |     |    |    |    |    |    |    |     |      |      | .24 |      | 1.63  |      |      |
| Buffalo Mills      | Juniata        |              |     |     |      |     |     |      |      |     |      |      |    |    |    |    |    |    | .60  | .40  |     |    |    |    |    |    |    |     | .03  |      | .94 |      | 1.59  |      |      |
| Carlisle           | Lower Susq.    |              | .01 | .19 | .20  |     |     |      |      |     |      | .02  |    |    |    |    |    |    | .20  |      |     |    |    |    |    |    |    |     |      |      |     |      |       |      |      |
| Catawissa          | N. Br. Susq.   |              |     | .38 |      |     | T.  | .50  |      |     | .30  |      |    |    |    |    |    |    | .48  |      |     |    |    |    |    |    |    |     | T.   |      |     | .38  | 2.04  |      |      |
| Center Hill        | Susquehanna    |              |     | .88 |      |     |     |      |      |     | .82  |      |    |    |    |    |    |    | 1.68 |      |     |    |    |    |    |    |    |     | .24  |      | .01 | 1.36 | 4.99  |      |      |
| Chambersburg       | Potomac        | T.           | .18 |     |      |     |     | T.   |      |     | .20  | .22  |    |    |    |    |    |    | .93  |      |     |    |    |    |    |    |    |     | .01  |      | .24 | .04  | 1.82  |      |      |
| Clearfield         | W. Br. Susq.   |              | .48 | .72 | .15  |     |     |      |      | T.  |      |      |    |    |    |    |    |    | .67  |      |     |    |    |    |    |    |    |     | 1.00 |      | T.  | .04  | 3.06  |      |      |
| Coatesville        | Lower Del.     |              |     | .52 |      |     | .73 | .08  |      |     | .68  | .36  |    |    |    |    |    |    | 2.00 | .06  |     |    |    |    |    |    |    |     | .20  |      | .03 |      | 4.66  |      |      |
| Colebrook          | Lower Susq.    | T.           | .20 | .41 |      | .01 | .53 |      |      |     | .03  | .17  |    |    |    |    |    |    | 1.01 | .02  |     |    |    |    |    |    |    |     | .16  |      | .57 | .18  | 3.29  |      |      |
| Conshohocken       | Schuylkill     |              |     |     |      |     |     |      |      |     | .24  |      |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      | .32  |     | .40  |       | 2.32 |      |
| Cresskill          | Juniata        |              |     | .55 |      |     |     |      |      |     |      |      |    |    |    |    |    |    | .20  | .61  |     |    |    |    |    |    |    |     |      | .32  |     |      |       | 2.90 |      |
| Doylestown         | Lower Del.     | T.           | .34 | .19 | .01  |     |     | .20  | .14  |     | .43  |      |    |    |    |    |    |    | 1.04 | .09  |     |    |    |    |    |    |    |     | .09  | .37  |     |      |       | 3.12 |      |
| Emporium           | W. Br. Susq.   |              |     | .28 |      |     | .03 | T.   |      | .02 | .28  |      |    |    |    |    |    |    | .60  |      |     |    |    |    |    |    |    |     |      | .12  |     | .76  | 1.01  | .02  | 4.57 |
| Ephrata            | Lower Susq.    |              |     | .45 | .55  |     |     | .17  | .75  |     | .40  | .22  |    |    |    |    |    |    | .77  | .88  |     |    |    |    |    |    |    |     | .03  |      |     | .35  |       | 3.33 |      |
| Forest City        | N. Br. Susq.   |              |     | .11 | 1.20 |     |     | .12  |      |     | .40  |      |    |    |    |    |    |    | 1.50 |      |     |    |    |    |    |    |    |     |      |      |     |      |       |      |      |
| Freeland           | Lehigh         |              |     | .07 | .12  |     |     |      | .37  |     |      | .42  |    |    |    |    |    |    | .32  | 1.10 |     |    |    |    |    |    |    |     |      | .03  | .03 |      | T.    | .01  | 2.47 |
| Galeton            | W. Br. Susq.   |              |     | .32 |      |     |     |      | .21  | .30 |      | .24  |    |    |    |    |    |    | .73  |      |     |    |    |    |    |    |    |     |      | .13  |     | .20  |       | 1.89 |      |
| George School      | Lower Del.     |              | .01 | .46 |      |     | .05 | .32  |      |     | .24  |      |    |    |    |    |    |    | .80  | .33  |     |    |    |    |    |    |    |     |      | .19  |     |      |       | 2.40 |      |
| Gettysburg         | Potomac        | .03          |     | .24 |      |     |     | .01  |      |     | .18  | .37  |    |    |    |    |    |    | .34  | .61  |     |    |    |    |    |    |    |     |      |      |     | .76  |       | 2.70 |      |
| Girardville        | Lower Susq.    |              |     | .31 |      |     |     | .31  |      | T.  | .22  |      |    |    |    |    |    |    | .95  |      |     |    |    |    |    |    |    |     |      |      |     |      | .67   | 2.46 |      |
| Gordon             | Lower Susq.    |              |     | .08 | .63  |     |     |      | .04  |     | .10  | .02  |    |    |    |    |    |    | .88  |      |     |    |    |    |    |    |    |     |      | .06  |     | .01  |       | 1.82 |      |
| Gouldsboro         | Lehigh         |              | .56 | .15 | .55  |     |     |      |      |     |      |      |    |    |    |    |    |    | 2.15 |      |     |    |    |    |    |    |    |     |      | .15  |     |      |       | 3.58 |      |
| Graterford         | Schuylkill     |              |     | .47 |      |     |     | .14  | .63  |     | .39  |      |    |    |    |    |    |    | 1.54 | .08  |     |    |    |    |    |    |    |     |      | .43  |     |      |       | 3.68 |      |
| Hamburg            | Schuylkill     |              |     | .21 |      |     |     | 1.68 |      |     |      |      |    |    |    |    |    |    | .95  | .05  |     |    |    |    |    |    |    |     |      | .55  |     |      | .50   | 3.94 |      |
| Hanover            | Lower Susq.    |              |     | .23 | .09  |     |     | T.   |      |     | .45  | .47  |    |    |    |    |    |    | .67  | .53  |     |    |    |    |    |    |    |     |      | .07  |     | 1.57 |       | 4.08 |      |
| Harrisburg         | Lower Susq.    | T.           | .12 |     |      |     | .04 | .02  |      |     | T.   |      |    |    |    |    |    |    | .26  |      |     |    |    |    |    |    |    |     |      | T.   |     | .48  | .17   | 1.09 |      |
| Hawley             | Upper Del.     | .01          |     | .02 | .54  |     |     | .10  | .59  |     | .95  |      |    |    |    |    |    |    | .43  |      |     |    |    |    |    |    |    |     |      | 1.44 |     |      |       | 4.08 |      |
| Hollisterville     | Upper Del.     |              | .22 |     | .02  | .34 |     |      | .40  | .18 |      | 1.10 |    |    |    |    |    |    |      | .74  |     |    |    |    |    |    |    |     |      | 1.53 |     |      |       | 4.53 |      |
| Holtwood           | Lower Susq.    |              |     | .04 | .09  |     |     |      | .10  |     |      | .95  |    |    |    |    |    |    | 1.45 |      |     |    |    |    |    |    |    |     |      | .05  |     | 1.08 |       | 3.43 |      |
| Huntingdon         | Juniata        |              |     | .22 |      |     |     | .26  |      |     | T.   | .75  |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      |      | .07 | .10  |       | 2.85 |      |
| Hyndman            | Potomac        | T.           | .23 |     |      |     | T.  | .33  | .14  |     | .10  | .10  |    |    |    |    |    |    | 1.00 |      |     |    |    |    |    |    |    |     |      |      | .05 | .01  |       | 1.96 |      |
| Kylertown          | W. B. Susq.    |              |     | .54 |      |     |     |      |      |     | .45  | .20  |    |    |    |    |    |    | 1.55 |      |     |    |    |    |    |    |    |     |      | .25  |     | .03  | .63   | 3.65 |      |
| Lakeville          | Upper Del.     |              | .23 | .07 | .36  | T.  |     | .52  | .34  |     | 1.46 |      |    |    |    |    |    |    | .70  |      |     |    |    |    |    |    |    |     |      | 1.15 |     |      |       | 4.83 |      |
| Lancaster          | Lower Susq.    |              |     | .14 |      |     |     | 2.74 | .28  |     | .22  | .32  |    |    |    |    |    |    | .88  |      |     |    |    |    |    |    |    |     |      | .09  | .11 | *    | .45   | 5.23 |      |
| Lansford           | Lehigh         |              |     | .10 | .08  |     |     | 2.06 |      |     | T.   | .16  |    |    |    |    |    |    | 1.4  | 1.47 |     |    |    |    |    |    |    |     |      |      | .18 |      |       | 4.19 |      |
| Lansford           | N. Br. Susq.   |              |     | .36 |      |     |     |      |      |     | .32  |      |    |    |    |    |    |    | .55  |      |     |    |    |    |    |    |    |     |      | .06  |     | .15  |       | 1.44 |      |
| Lawrenceville      | N. Br. Susq.   |              |     | .06 | .26  |     |     | T.   | .25  |     | .18  |      |    |    |    |    |    |    | .09  | .68  |     |    |    |    |    |    |    |     |      | .33  |     | .35  | .02   | 2.22 |      |
| Lebanon            | Lower Susq.    |              |     | .24 | .03  |     |     |      |      |     | .42  |      |    |    |    |    |    |    | .38  |      |     |    |    |    |    |    |    |     |      |      | .01 | .16  |       | 1.24 |      |
| Lewisburg          | W. Br. Susq.   |              |     |     |      |     |     |      |      |     |      |      |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      |      |     |      |       |      |      |
| Lloyd              | do             |              |     |     |      |     |     |      |      |     |      |      |    |    |    |    |    |    |      |      |     |    |    |    |    |    |    |     |      |      |     |      |       |      |      |
| Lock Haven         | W. Br. Susq.   |              |     | .23 |      |     |     |      |      |     | .10  | .04  |    |    |    |    |    |    | 1.35 |      |     |    |    |    |    |    |    |     |      | .02  | .01 | .02  | .93   |      | 2.70 |
| Lykens             | Susquehanna    | T.           | .35 | .22 |      |     | .58 |      |      |     | .04  | .01  |    |    |    |    |    |    | .63  | .03  |     |    |    |    |    |    |    |     |      | .14  |     | T.   | .36   | .23  | 2.59 |
| Marcus Hook        | Lower Del.     |              | .25 |     |      |     |     |      |      |     | .44  |      |    |    |    |    |    |    | .15  | .46  |     |    |    |    |    |    |    |     |      |      |     | .06  |       |      | 1.36 |
| Matamoras          | Upper Del.     | T.           | .02 |     | .38  |     |     | .26  | .46  |     |      | 1.03 |    |    |    |    |    |    |      | .77  |     |    |    |    |    |    |    |     |      |      | .43 |      |       | 3.35 |      |
| Mauch Chunk        | Lehigh         |              |     | .20 |      |     |     | 1.50 |      |     | .18  |      |    |    |    |    |    |    | 1.53 |      |     |    |    |    |    |    |    |     |      | .06  |     |      |       | 3.49 |      |
| Millintown         | Juniata        |              |     | .17 | .21  |     |     | .03  |      |     | .14  | .06  |    |    |    |    |    |    | .65  |      |     |    |    |    |    |    |    |     |      |      |     |      |       |      |      |



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| Stations           | Drainage Basin    | Day of month |      |      |     |     |     |     |     |     |      |      |     |    |    |    |    |     |      |     |     |    |    |    |    |     |     |     |     |     |      |     |  |
|--------------------|-------------------|--------------|------|------|-----|-----|-----|-----|-----|-----|------|------|-----|----|----|----|----|-----|------|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|------|-----|--|
|                    |                   | 1            | 2    | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11   | 12  | 13 | 14 | 15 | 16 | 17  | 18   | 19  | 20  | 21 | 22 | 23 | 24 | 25  | 26  | 27  | 28  | 29  | 30   | 31  |  |
| Ohio Drainage.     |                   |              |      |      |     |     |     |     |     |     |      |      |     |    |    |    |    |     |      |     |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Beaver Dam\|\|\| | Ohio.....         |              |      | .01  | .03 |     |     |     |     | .04 |      | .42  |     |    |    |    |    |     | .49  |     |     |    |    |    |    |     |     | .22 |     |     | .12  | .52 |  |
| Beaver Falls\|\|\| | Beaver.....       |              |      | .07  | .44 |     |     |     | T.  | .03 |      | 1.02 |     |    |    |    |    |     | .39  | T.  |     |    |    |    |    |     |     | .48 | .03 | T.  | .70  |     |  |
| Bradford.....      | Allegheny.....    |              |      | .34  |     |     |     |     |     | .05 | .18  |      |     |    |    |    |    |     | .08  | .48 |     |    |    |    |    |     |     | .21 |     | .10 | .04  | .40 |  |
| Brookville.....    | do.....           |              |      | .60  | .10 |     |     |     | T.  |     |      |      |     |    |    |    |    |     | .20  | .31 |     |    |    |    |    |     |     | .11 | .20 |     | .15  |     |  |
| Butler.....        | Ohio.....         |              |      | .63  |     | .26 |     |     |     |     |      | .34  |     |    |    |    |    |     | .32  |     |     |    |    |    |    |     | .11 |     |     | .81 |      |     |  |
| Chambersville..... | Allegheny.....    |              | .03  | .31  |     |     |     | T.  |     |     | 1.32 | .03  |     |    |    |    |    |     | .64  |     |     |    |    |    |    |     | .01 | .60 |     |     | 1.22 |     |  |
| Clairton\|\|\| | Monongahela.....  |              |      | .06  |     |     |     | T.  | T.  |     | .25  |      |     |    |    |    |    |     | 1.26 |     |     |    |    |    |    |     | .02 | .16 |     | .62 | T.   |     |  |
| Claysville.....    | Ohio.....         |              |      | .09  | .11 |     |     |     |     |     | .61  |      |     |    |    |    |    |     | 1.94 |     |     |    |    |    |    |     |     | .32 |     | .13 |      |     |  |
| Clymer\|\|\| | Conemaugh.....    |              | .50  |      |     |     |     |     |     |     |      |      | .75 |    |    |    |    |     | .65  |     |     |    |    |    |    |     |     | .22 | .95 | .12 |      |     |  |
| Confluence\|\|\| | Youghiogheny..... |              |      | .12  | .63 |     |     |     | .48 |     |      | .33  |     |    |    |    |    |     | .93  | .83 |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Corry.....         | Allegheny.....    |              |      | .43  |     |     |     | .15 |     |     |      | .38  |     |    |    |    |    |     | .17  | .55 |     |    |    |    |    |     |     | .24 |     | .05 |      |     |  |
| Coudersport.....   | Allegheny.....    |              | .04  | *    |     |     |     | .13 |     | .15 |      |      |     |    |    |    |    |     | 1.04 | .13 |     |    |    |    |    | .32 | .10 | .24 |     |     |      |     |  |
| Derry.....         | Conemaugh.....    |              |      | .53  |     |     |     | .09 |     |     | .16  |      |     |    |    |    |    |     | .88  |     |     |    |    |    |    |     | .09 |     | .33 | .92 |      |     |  |
| Donora\|\|\| | Monongahela.....  |              |      | .06  |     |     |     |     |     |     | .20  | T.   | T.  |    |    |    |    |     | 1.20 | .11 | .01 |    |    |    |    |     | .07 | .15 |     | .01 |      |     |  |
| Ebensburg.....     | Conemaugh.....    |              | .14  | .38  |     |     |     |     |     | .09 | .09  |      |     |    |    |    |    |     | 1.03 |     |     |    |    |    |    |     |     | .03 |     | .10 | .54  |     |  |
| Elk Lick.....      | Youghiogheny..... |              |      |      |     |     |     |     |     |     |      |      |     |    |    |    |    |     |      |     |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Falls Creek.....   | Allegheny.....    |              |      |      |     |     |     |     |     |     | .18  |      | .48 |    |    |    |    |     | .55  |     |     |    |    |    |    |     |     | .18 | .04 |     | .82  |     |  |
| Franklin\|\|\| | Allegheny.....    |              |      | .03  | .36 |     |     |     |     |     | .18  |      | .48 |    |    |    |    |     | .55  |     |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Freeport\|\|\| | do.....           |              |      | .13  | .05 |     |     |     | .06 | .01 |      | .36  |     |    |    |    |    |     | .47  | .11 |     |    |    |    |    |     |     | .07 |     | .09 | .07  | .11 |  |
| Greensboro.....    | Monongahela.....  |              |      | .08  | .19 |     |     |     |     | .01 | .01  |      | .35 |    |    |    |    |     | 1.17 | .10 |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Greensburg.....    | Youghiogheny..... |              | T.   | .08  |     |     |     | .03 |     | T.  | .12  | .13  |     |    |    |    |    |     | 1.40 |     |     |    |    |    |    |     |     | .07 | T.  | .61 | .18  |     |  |
| Greenville.....    | Beaver.....       |              | T.   | 1.50 |     |     |     | T.  |     |     | .33  |      |     |    |    |    |    |     | .05  | .10 |     |    |    |    |    |     | .10 | T.  | .83 | .09 |      |     |  |
| Grove City.....    | do.....           |              |      | 1.32 |     |     |     |     |     | .03 | .19  |      |     |    |    |    |    |     | .01  | .62 |     |    |    |    |    |     |     | .34 |     | .37 | .38  |     |  |
| Herrs Isl. Dam\|\|\| | Ohio.....         |              |      |      | .06 |     |     |     |     |     | T.   | .17  |     |    |    |    |    |     | .63  | .25 |     |    |    |    |    |     |     | .08 | .04 | .14 | .37  |     |  |
| Ingram.....        | Ohio.....         |              |      | .05  |     |     |     | T.  |     |     | .28  |      |     |    |    |    |    |     | .78  | T.  |     |    |    |    |    |     |     | T.  | .03 | T.  | .58  |     |  |
| Irwin.....         | Monongahela.....  |              |      | .18  |     |     |     |     | T.  | T.  | .15  | .07  |     |    |    |    |    |     | 1.41 |     |     |    |    |    |    |     |     | .10 |     | .65 | .03  |     |  |
| Johnstown.....     | Conemaugh.....    |              | .53  | .18  |     |     |     | .04 | T.  | T.  | .72  |      |     |    |    |    |    |     | 1.11 |     |     |    |    |    |    |     |     | .07 |     | .11 | .23  |     |  |
| Kane (near) \|\|\| | Allegheny.....    |              |      | .26  |     |     |     | .10 |     | .19 | .34  | T.   |     |    |    |    |    |     | *    |     |     |    |    |    |    |     |     | .56 |     | .11 | .08  |     |  |
| Kregar\|\|\| | Youghiogheny..... |              |      | .30  |     |     |     |     |     |     | .25  |      |     |    |    |    |    |     | .85  | .51 |     |    |    |    |    |     |     | .15 | T.  | .61 |      |     |  |
| Lake Lynn\|\|\| | Monongahela.....  |              |      | .02  | .24 |     |     |     | .35 | .35 |      | 1.02 |     |    |    |    |    |     | 1.37 | .25 |     |    |    |    |    |     |     | .03 |     | .02 | .13  |     |  |
| Linesville\|\|\| | Beaver.....       |              |      | .23  | .19 |     |     |     |     |     | .05  | .47  |     |    |    |    |    |     | .14  |     |     |    |    |    |    |     |     | .13 |     | .91 |      |     |  |
| Lock No. 2\|\|\| | Ohio.....         |              |      |      | .04 |     |     |     |     | T.  |      |      |     |    |    |    |    |     | .55  | T.  |     |    |    |    |    |     |     | .02 |     | .19 | .43  |     |  |
| Lock No. 4\|\|\| | Monongahela.....  |              |      | T.   | .09 |     |     |     |     |     | .48  |      |     |    |    |    |    |     | 1.42 | .54 |     |    |    |    |    |     |     | .11 | .07 | T.  |      |     |  |
| Lycippus.....      | Conemaugh.....    |              | .22  | .10  |     |     |     |     |     |     |      |      |     |    |    |    |    |     | 1.64 |     |     |    |    |    |    |     |     | .20 |     | .52 | .22  |     |  |
| McKeesport\|\|\| | Monongahela.....  |              |      | T.   | T.  |     |     |     |     |     | .02  |      |     |    |    |    |    |     | .92  |     |     |    |    |    |    |     |     | T.  | .26 | .29 | T.   |     |  |
| Meadville.....     | Allegheny.....    |              |      | .68  |     |     |     |     |     |     | .41  |      |     |    |    |    |    |     | .14  | .22 |     |    |    |    |    |     |     | T.  | .12 |     | .28  | .10 |  |
| Mount Lebanon..... | Ohio.....         |              | T.   | .05  |     |     |     | T.  |     | T.  | .14  |      |     |    |    |    |    |     | 1.32 |     |     |    |    |    |    |     |     | T.  | .28 | T.  | .33  | T.  |  |
| Natrona\|\|\| | Allegheny.....    |              |      | .03  | .22 |     |     |     | .08 |     | .48  |      |     |    |    |    |    |     | .39  | .02 |     |    |    |    |    |     |     | .18 |     |     | .93  | .02 |  |
| New Castle\|\|\| | Beaver.....       |              |      | .42  | .39 |     |     |     |     | .01 | .16  |      |     |    |    |    |    | .01 | .75  | .01 |     |    |    |    |    |     |     | .18 | .13 |     | .91  |     |  |
| Newell.....        | Monongahela.....  |              |      |      |     |     |     |     |     | .07 | .49  |      |     |    |    |    |    |     | 1.83 |     |     |    |    |    |    |     |     | .04 | .01 | .01 |      |     |  |
| Parkers Landing\|\|\| | Allegheny.....    |              |      | 1.15 |     |     |     |     |     |     |      |      |     |    |    |    |    |     | .38  | .13 |     |    |    |    |    |     |     | .23 | .25 |     | .52  | .12 |  |
| Pennline\|\|\| | Beaver.....       |              |      | .48  | .15 |     |     |     | T.  | T.  | .19  |      |     |    |    |    |    |     | .15  |     |     |    |    |    |    |     |     | .17 | .10 |     | .90  |     |  |
| Pittsburgh***      | Ohio.....         |              | T.   | .03  |     |     |     | T.  |     | T.  | .22  | T.   |     |    |    |    |    |     | .73  | T.  |     |    |    |    |    |     |     | .06 | .06 | T.  | .62  |     |  |
| Punxsutawney\|\|\| | Allegheny.....    |              |      |      |     |     |     |     |     |     |      |      |     |    |    |    |    |     |      |     |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Ridgway.....       | do.....           |              |      | .20  | .09 |     |     |     | .05 |     |      | .25  |     |    |    |    |    |     | .07  | .53 |     |    |    |    |    |     |     | .18 | .04 |     | .23  |     |  |
| Saltsburg\|\|\| | Conemaugh.....    |              |      | .05  | .15 |     |     |     |     |     | .55  |      |     |    |    |    |    |     | .65  | .01 |     |    |    |    |    |     |     | .01 | .08 |     | 1.02 | .35 |  |
| Sharon\|\|\| | Beaver.....       |              | .55  | .05  | T.  |     |     |     | .01 |     | .24  |      |     |    |    |    |    |     | .25  |     |     |    |    |    |    |     |     | .16 |     | .75 |      |     |  |
| Smethport.....     | Allegheny.....    |              |      | .02  | .36 |     |     |     |     | .02 | .16  | .07  |     |    |    |    |    |     | .68  | .12 |     |    |    |    |    |     |     | .45 | .75 |     | .40  |     |  |
| Somerset.....      | Youghiogheny..... |              |      | .25  | .05 |     |     | .10 | T.  |     | T.   | .02  |     |    |    |    |    |     | 1.28 |     |     |    |    |    |    |     |     | .01 |     | .24 | .22  |     |  |
| Springdale\|\|\| | Allegheny.....    |              |      | .08  | .20 |     |     |     | .03 | .01 | .72  |      |     |    |    |    |    |     | .54  | .08 |     |    |    |    |    |     |     | .13 |     |     | .49  |     |  |
| Uniontown.....     | Monongahela.....  |              |      | .89  | .84 |     |     |     | .07 |     | .38  | .27  |     |    |    |    |    |     | 1.73 |     |     |    |    |    |    |     |     | .03 |     | T.  |      |     |  |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |      | .08  |     |     |     |     |     |     | .08  |      |     |    |    |    |    |     | 1.50 |     |     |    |    |    |    |     |     | .12 |     | .58 | .18  |     |  |
| Vandergrift\|\|\| | Conemaugh.....    |              |      | .40  |     |     |     |     | .02 | .89 | .02  |      |     |    |    |    |    |     | .70  |     |     |    |    |    |    |     |     | .12 |     | .51 | 1.20 |     |  |
| Warren.....        | Allegheny.....    |              |      | .43  |     | .20 |     |     |     | .27 |      |      |     |    |    |    |    |     | 1.63 | .04 |     |    |    |    |    |     |     | .18 |     | .05 | .05  |     |  |
| Waynesburg.....    | Monongahela.....  |              |      | .05  | .20 | .72 |     |     |     | .33 | .11  |      |     |    |    |    |    |     | 2.32 |     |     |    |    |    |    |     |     | .17 | .24 |     | .16  |     |  |
| Westford\|\|\| | Beaver.....       |              | 1.33 | .95  |     |     |     | .12 |     |     |      | T.   |     |    |    |    |    |     | .32  |     |     |    |    |    |    |     |     | .21 |     | .80 |      |     |  |
| West Newton\|\|\| | Youghiogheny..... |              |      | T.   | .21 |     |     |     |     |     | .12  |      |     |    |    |    |    |     | 1.31 | .06 |     |    |    |    |    |     |     | .07 | .14 |     | .11  |     |  |
| Lake Drainage.     |                   |              |      |      |     |     |     |     |     |     |      |      |     |    |    |    |    |     |      |     |     |    |    |    |    |     |     |     |     |     |      |     |  |
| Erie***            | Lake Erie.....    |              | .11  | .41  |     |     | .16 | T.  | .01 |     | .48  |      |     |    |    |    |    |     | .32  | .45 | .01 |    |    |    |    |     |     | .09 |     | .12 | .02  |     |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

\* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, New York; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox. † Mdt. to m.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                      |         |           |           |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|-----------------------------|---------|-----------|-----------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Velocity, in miles per hour |         |           |           |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. | Total movement, in miles    | Average | * Highest | Direction |
| Erie.....         | 274.2                   | 428.7                    | 64                     | 73               | 64       | 68      | 7,657                       | 10.3    | 35        | sw.       |
| Harrisburg.....   | 350.9                   | 425.1                    | 83                     | 72               | 45       | 51      | 4,661                       | 6.3     | 24        | sw.       |
| Philadelphia..... | 315.5                   | 425.1                    | 74                     | 70               | 49       | 58      | 8,068                       | 10.8    | 31        | ne.       |
| Pittsburgh.....   | 331.0                   | 426.9                    | 78                     | 75               | 43       | 48      | 5,661                       | 7.6     | 28        | nw.       |
| Reading.....      | 315.0                   | 425.1                    | 74                     | 72               | 50       | 59      | 4,298                       | 5.8     | 24        | nw.       |
| Scranton.....     | 307.7                   | 426.9                    | 72                     | 76               | 46       | 57      | 4,233                       | 5.7     | 25        | nw.       |

\* For any five-minute period.



Daily Temperatures for August, 1932

| Stations           | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31  | Mean |      |      |
|--------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|------|
| Allentown.....     | Maximum... | 88 | 82 | 77 | 87 | 91 | 92 | 87 | 85 | 84 | 88 | 82 | 79 | 81 | 86 | 88 | 88 | 86 | 74 | 79 | 81 | 80 | 86 | 86 | 83 | 88 | 88 | 88 | 83 | 82 | 85  | 94   | 84.8 |      |
|                    | Minimum... | 55 | 59 | 65 | 61 | 59 | 63 | 68 | 66 | 62 | 59 | 63 | 57 | 56 | 56 | 56 | 61 | 65 | 68 | 59 | 56 | 52 | 54 | 57 | 59 | 59 | 59 | 63 | 62 | 59 | 60  | 65   | 60.1 |      |
| Altoona.....       | Maximum... | 85 | 79 | 82 | 83 | 87 | 90 | 89 | 84 | 82 | 87 | 79 | 77 | 80 | 85 | 89 | 90 | 89 | 82 | 74 | 76 | 81 | 87 | 87 | 89 | 91 | 88 | 84 | 76 | 79 | 90  | 85   | 84.4 |      |
|                    | Minimum... | 51 | 60 | 63 | 59 | 53 | 60 | 58 | 57 | 55 | 59 | 61 | 50 | 47 | 50 | 51 | 55 | 58 | 64 | 48 | 44 | 46 | 50 | 52 | 54 | 55 | 55 | 65 | 60 | 51 | 63  | 68   | 55.5 |      |
| Bedford.....       | Maximum... | 91 | 91 | 85 | 86 | 91 | 92 | 92 | 87 | 84 | 89 | 83 | 84 | 90 | 91 | 94 | 96 | 94 | 88 | 79 | 81 | 87 | 91 | 92 | 93 | 94 | 96 | 90 | 87 | 85 | 91  | 96   | 89.4 |      |
|                    | Minimum... | 52 | 66 | 65 | 59 | 55 | 62 | 60 | 61 | 53 | 59 | 61 | 47 | 48 | 47 | 49 | 55 | 60 | 66 | 50 | 46 | 44 | 46 | 50 | 56 | 54 | 53 | 63 | 58 | 55 | 65  | 61   | 55.7 |      |
| Bellefonte.....    | Maximum... | 85 | 80 | 82 | 84 | 87 | 89 | 88 | 82 | 80 | 85 | 79 | 77 | 79 | 83 | 88 | 89 | 87 | 78 | 73 | 76 | 80 | 84 | 86 | 87 | 88 | 90 | 85 | 77 | 77 | 89  | 94   | 83.5 |      |
|                    | Minimum... | 48 | 60 | 65 | 59 | 52 | 61 | 59 | 55 | 54 | 58 | 54 | 49 | 47 | 48 | 49 | 55 | 67 | 58 | 52 | 45 | 44 | 47 | 50 | 54 | 55 | 56 | 64 | 58 | 51 | 62  | 66   | 54.9 |      |
| Brookville.....    | Maximum... | 80 | 85 | 86 | 81 | 83 | 88 | 87 | 87 | 81 | 87 | 74 | 79 | 76 | 79 | 88 | 90 | 92 | 80 | 73 | 74 | 82 | 85 | 92 | 92 | 92 | 91 | 85 | 88 | 86 | 93  | 95   | 86.0 |      |
|                    | Minimum... | 36 | 42 | 52 | 55 | 58 | 45 | 45 | 45 | 51 | 47 | 54 | 45 | 42 | 39 | 40 | 47 | 50 | 48 | 42 | 39 | 37 | 41 | 46 | 47 | 47 | 48 | 53 | 48 | 50 | 61  | 46.4 |      |      |
| Butler.....        | Maximum... | 86 | 85 | 84 | 85 | 91 | 91 | 90 | 88 | 84 | 81 | 81 | 76 | 80 | 86 | 88 | 90 | 92 | 80 | 73 | 74 | 82 | 85 | 92 | 92 | 92 | 91 | 85 | 88 | 86 | 93  | 95   | 86.0 |      |
|                    | Minimum... | 47 | 69 | 70 | 52 | 49 | 61 | 52 | 50 | 51 | 59 | 56 | 47 | 44 | 45 | 44 | 60 | 54 | 65 | 54 | 40 | 41 | 43 | 47 | 50 | 52 | 56 | 67 | 53 | 50 | 60  | 65   | 53.3 |      |
| Carlisle.....      | Maximum... | 91 | 89 | 87 | 84 | 94 | 97 | 92 | 91 | 96 | 85 | 85 | 85 | 89 | 89 | 95 | 95 | 94 | 90 | 80 | 86 | 89 | 95 | 95 | 93 | 96 | 95 | 93 | 90 | 89 | 95  | 100  | 91.5 |      |
|                    | Minimum... | 53 | 65 | 67 | 64 | 57 | 68 | 63 | 65 | 58 | 58 | 66 | 55 | 51 | 56 | 50 | 57 | 65 | 68 | 53 | 55 | 46 | 47 | 52 | 61 | 55 | 63 | 64 | 63 | 58 | 66  | 68   | 58.9 |      |
| Catawissa.....     | Maximum... | 91 | 81 | 84 | 92 | 94 | 97 | 93 | 90 | 87 | 85 | 87 | 82 | 86 | 90 | 92 | 94 | 91 | 80 | 81 | 83 | 88 | 90 | 94 | 91 | 96 | 91 | 86 | 81 | 90 | 98  | 89.1 |      |      |
|                    | Minimum... | 52 | 64 | 66 | 59 | 56 | 65 | 64 | 64 | 58 | 54 | 62 | 53 | 50 | 51 | 53 | 57 | 69 | 69 | 53 | 52 | 46 | 49 | 53 | 58 | 60 | 59 | 68 | 57 | 55 | 60  | 65   | 57.9 |      |
| Chambersburg.....  | Maximum... | 93 | 83 | 87 | 89 | 94 | 98 | 99 | 91 | 90 | 95 | 85 | 84 | 86 | 91 | 94 | 94 | 94 | 85 | 85 | 83 | 86 | 91 | 92 | 91 | 94 | 95 | 94 | 85 | 92 | 102 | 90.8 |      |      |
|                    | Minimum... | 54 | 68 | 66 | 65 | 57 | 65 | 67 | 67 | 67 | 67 | 62 | 64 | 52 | 50 | 51 | 54 | 60 | 62 | 67 | 53 | 49 | 51 | 54 | 60 | 58 | 56 | 63 | 58 | 60 | 64  | 69   | 59.4 |      |
| Chambersville..... | Maximum... | 87 | 88 | 87 | 87 | 90 | 91 | 91 | 88 | 87 | 90 | 85 | 80 | 86 | 85 | 88 | 90 | 91 | 81 | 78 | 76 | 82 | 87 | 90 | 91 | 91 | 93 | 89 | 78 | 82 | 93  | 95   | 87.0 |      |
|                    | Minimum... | 46 | 61 | 68 | 54 | 50 | 61 | 58 | 53 | 52 | 65 | 59 | 46 | 45 | 43 | 42 | 50 | 56 | 64 | 48 | 40 | 44 | 45 | 50 | 54 | 54 | 55 | 54 | 55 | 50 | 63  | 66   | 53.3 |      |
| Claysville.....    | Maximum... | 89 | 88 | 87 | 90 | 92 | 91 | 90 | 88 | 87 | 90 | 81 | 81 | 83 | 88 | 92 | 93 | 92 | 86 | 78 | 77 | 84 | 88 | 91 | 91 | 92 | 92 | 85 | 79 | 87 | 96  | 97   | 87.9 |      |
|                    | Minimum... | 52 | 65 | 71 | 53 | 54 | 61 | 60 | 55 | 50 | 68 | 59 | 50 | 46 | 47 | 60 | 52 | 62 | 65 | 60 | 41 | 45 | 47 | 50 | 56 | 57 | 62 | 68 | 54 | 62 | 70  | 66   | 57.0 |      |
| Clearfield.....    | Maximum... | 88 | 80 | 84 | 80 | 88 | 90 | 89 | 81 | 85 | 80 | 82 | 80 | 84 | 85 | 92 | 94 | 90 | 85 | 76 | 82 | 81 | 79 | 86 | 92 | 82 | 83 | 89 | 78 | 79 | 93  | 97   | 85.6 |      |
|                    | Minimum... | 46 | 60 | 65 | 61 | 52 | 60 | 57 | 58 | 52 | 50 | 48 | 50 | 45 | 48 | 48 | 50 | 56 | 65 | 48 | 53 | 59 | 58 | 64 | 45 | 52 | 52 | 65 | 53 | 50 | 61  | 65   | 55.0 |      |
| Coatesville.....   | Maximum... | 88 | 84 | 79 | 87 | 91 | 90 | 89 | 88 | 87 | 90 | 84 | 82 | 82 | 86 | 91 | 89 | 87 | 77 | 81 | 84 | 81 | 86 | 85 | 85 | 88 | 88 | 91 | 83 | 84 | 89  | 96   | 86.2 |      |
|                    | Minimum... | 48 | 64 | 65 | 71 | 61 | 61 | 60 | 67 | 66 | 60 | 65 | 59 | 57 | 57 | 59 | 64 | 68 | 63 | 67 | 63 | 57 | 58 | 57 | 59 | 59 | 57 | 57 | 62 | 65 | 61  | 65   | 69   | 61.8 |
| Corry.....         | Maximum... | 82 | 86 | 82 | 85 | 89 | 86 | 82 | 84 | 83 | 79 | 78 | 80 | 82 | 84 | 88 | 91 | 77 | 76 | 69 | 85 | 81 | 83 | 85 | 87 | 92 | 85 | 83 | 77 | 75 | 95  | 97   | 83.5 |      |
|                    | Minimum... | 52 | 58 | 57 | 52 | 58 | 60 | 57 | 50 | 52 | 57 | 52 | 47 | 51 | 44 | 46 | 54 | 58 | 54 | 47 | 39 | 42 | 48 | 57 | 61 | 64 | 70 | 69 | 64 | 70 | 62  | 65   | 55.1 |      |
| Coudersport.....   | Maximum... | 83 | 84 | 81 | 84 | 86 | 86 | 86 | 81 | 81 | 79 | 77 | 76 | 78 | 83 | 87 | 89 | 88 | 85 | 75 | 73 | 80 | 82 | 84 | 87 | 88 | 87 | 87 | 87 | 75 | 72  | 89   | 93   | 82.8 |
|                    | Minimum... | 44 | 49 | 68 | 56 | 47 | 56 | 49 | 54 | 49 | 49 | 56 | 44 | 44 | 42 | 41 | 47 | 55 | 64 | 47 | 43 | 38 | 43 | 49 | 47 | 48 | 48 | 64 | 48 | 48 | 58  | 60   | 50.2 |      |
| Emporium.....      | Maximum... | 80 | 83 | 79 | 83 | 84 | 85 | 86 | 82 | 79 | 67 | 77 | 73 | 77 | 81 | 84 | 87 | 87 | 79 | 74 | 73 | 78 | 81 | 84 | 86 | 87 | 86 | 82 | 76 | 77 | 87  | 92   | 81.2 |      |
|                    | Minimum... | 50 | 52 | 67 | 60 | 52 | 63 | 52 | 60 | 55 | 53 | 59 | 50 | 48 | 50 | 53 | 55 | 55 | 62 | 52 | 48 | 43 | 48 | 52 | 53 | 55 | 53 | 68 | 53 | 52 | 62  | 68   | 54.8 |      |
| Erie.....          | Maximum... | 78 | 80 | 75 | 81 | 89 | 83 | 76 | 78 | 79 | 76 | 74 | 73 | 76 | 77 | 79 | 81 | 88 | 72 | 68 | 72 | 77 | 80 | 82 | 85 | 88 | 88 | 77 | 71 | 72 | 87  | 88   | 79.0 |      |
|                    | Minimum... | 58 | 65 | 64 | 63 | 64 | 67 | 66 | 62 | 59 | 63 | 65 | 62 | 58 | 59 | 59 | 60 | 68 | 62 | 56 | 52 | 54 | 58 | 62 | 66 | 73 | 70 | 68 | 62 | 60 | 68  | 77   | 62.9 |      |
| Franklin.....      | Maximum... | 91 | 90 | 85 | 88 | 92 | 88 | 83 | 87 | 86 | 74 | 81 | 80 | 82 | 89 | 95 | 96 | 90 | 78 | 75 | 81 | 88 | 90 | 96 | 93 | 95 | 94 | 87 | 81 | 76 | 96  | 100  | 87.3 |      |
|                    | Minimum... | 43 | 55 | 55 | 54 | 51 | 57 | 51 | 55 | 50 | 54 | 58 | 54 | 54 | 50 | 52 | 55 | 65 | 44 | 42 | 42 | 50 | 51 | 52 | 52 | 55 | 58 | 55 | 50 | 53 | 64  | 72   | 52.5 |      |
| Freeland.....      | Maximum... | 82 | 80 | 71 | 80 | 85 | 87 | 84 | 80 | 79 | 82 | 76 | 74 | 75 | 79 | 84 | 84 | 82 | 74 | 72 | 73 | 75 | 80 | 81 | 80 | 84 | 84 | 82 | 77 | 78 | 80  | 88   | 79.7 |      |
|                    | Minimum... | 58 | 62 | 61 | 61 | 64 | 64 | 67 | 62 | 60 | 61 | 58 | 56 | 52 | 56 | 60 | 62 | 63 | 63 | 54 | 55 | 54 | 63 | 60 | 59 | 61 | 62 | 62 | 59 | 55 | 58  | 70   | 60.1 |      |
| Gettysburg.....    | Maximum... | 90 | 80 | 80 | 87 | 90 | 93 | 96 | 93 | 90 | 92 | 84 | 83 | 84 | 88 | 92 | 91 | 9  | 85 | 80 | 81 | 84 | 88 | 90 | 88 | 91 | 92 | 91 | 82 | 88 | 91  | 98   | 88.2 |      |
|                    | Minimum... | 58 | 68 | 65 | 67 | 61 | 69 | 62 | 69 | 60 | 61 | 65 | 59 | 56 | 57 | 57 | 61 | 67 | 67 | 56 | 60 | 54 | 54 | 58 | 66 | 59 | 58 | 67 | 65 | 61 | 64  | 70   | 62.0 |      |
| Greensburg.....    | Maximum... | 90 | 87 | 85 | 88 | 92 | 91 | 85 | 88 | 85 | 90 | 82 | 80 | 84 | 85 | 92 | 93 | 91 | 83 | 76 | 77 | 83 | 87 | 91 | 90 | 91 | 92 | 84 | 80 | 81 | 89  | 96   | 86.7 |      |
|                    | Minimum... | 50 | 65 | 70 | 57 | 57 | 64 | 62 | 59 | 55 | 61 | 62 | 51 | 49 | 50 | 53 | 54 | 62 | 64 | 52 | 45 | 49 | 50 | 54 | 58 | 60 | 59 | 59 | 58 | 60 | 68  | 68   | 57.2 |      |
| Grove City.....    | Maximum... | 87 | 85 | 80 | 84 | 85 | 88 | 83 | 81 | 79 | 78 | 79 | 76 | 80 | 86 | 90 | 89 | 85 | 79 | 71 | 78 | 84 | 85 | 91 | 88 | 90 | 89 | 80 | 75 | 72 | 92  | 90   | 83.2 |      |
|                    | Minimum... | 67 | 68 | 70 | 55 | 56 | 64 | 63 | 56 | 54 | 63 | 58 | 53 | 49 | 49 | 55 | 55 | 62 | 65 | 55 | 43 | 48 | 55 | 57 | 64 | 62 | 64 | 67 | 59 | 54 | 66  | 70   | 58.7 |      |
| Hamburg.....       | Maximum... | 87 | 87 | 81 | 87 | 90 | 96 | 93 | 86 | 88 | 89 | 84 | 81 | 81 | 86 | 87 | 86 | 85 | 78 | 80 | 82 | 82 | 84 | 86 | 86 | 90 | 89 | 83 | 80 | 80 | 88  | 93   | 85.6 |      |
|                    | Minimum... | 56 | 62 | 65 | 56 | 57 | 52 | 62 | 59 | 57 | 48 | 56 | 54 | 57 | 54 | 59 | 62 | 63 | 64 | 57 | 55 | 49 | 56 | 59 | 60 | 60 | 63 | 60 | 58 | 58 | 60  | 60   | 58.0 |      |
| Harrisburg.....    | Maximum... | 87 | 77 | 82 | 88 | 89 | 94 | 88 | 85 | 90 | 85 | 80 | 83 | 88 | 89 | 92 | 90 | 77 | 81 | 80 | 84 | 88 | 87 | 86 | 90 | 90 | 89 | 81 | 83 | 89 | 88  | 86.3 |      |      |
|                    | Minimum... | 59 | 68 | 68 | 68 | 63 | 69 | 70 | 70 | 65 | 66 | 69 | 61 | 61 | 60 | 59 | 65 | 70 | 68 | 62 | 63 | 55 | 57 | 62 | 67 | 65 | 64 | 67 | 69 | 65 | 65  | 72   | 64.9 |      |
| Hawley.....        | Maximum... | 83 | 84 | 75 | 84 | 91 | 90 | 78 | 85 | 83 | 84 | 81 | 76 | 79 | 83 | 88 | 88 | 84 | 79 | 81 | 79 | 83 | 85 | 85 | 85 | 91 | 90 | 86 | 80 | 79 | 83  | 92   | 83.7 |      |
|                    | Minimum... | 47 | 54 | 64 | 61 | 50 | 56 | 63 | 59 | 55 | 50 | 60 | 48 | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |      |      |      |







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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVII.

SEPTEMBER, 1932.

No. 9.

## GENERAL SUMMARY.

September was moderately warm and extremely dry. The first date was very hot, and established a new September maximum of 105°, the previous high record being 104°. The temperature continued much above the normal for six days, and accumulated a large excess which was later reduced to an average of 1.1° for the month. This was the second driest September of record, and prolonged a drought condition that began in June. The drought was most severe, generally, in the eastern half of the State, where it was more intense than the drought of 1930. There were several counties in the southwestern portion where it was equally severe, but the condition was not quite so general. For the State as a whole, the accumulated deficiency of rainfall from June to September inclusive was 5.29 inches, while for the same period in 1930 it was 5.91 inches. However, this shortage does not tell the whole story of cause and effect. In June of 1930 the rainfall averaged slightly above the normal, and the very large deficiency accumulated after that period. In June of this year the average deficiency was a little more than an inch, this shortage occurring at a critical time in the crop growing season. As a result, the winter grains and all of the early crops in 1930 matured under favorable conditions, while this year many crops were suffering from a lack of moisture as early as the middle of July. September of this year closed a crop season that was the most unfavorable in many respects that has occurred in many years. It seems that there has been a shortage of deep soil water since the drought of 1930, and this condition quickly sapped the moisture from the top soil after each rain. During September many reports were received to the effect that the ground was dusty dry to a depth of five or six feet. The observer at Mount Pocono reported that forest fires burned the roots of trees down to a depth of three feet underground in some places. The dry condition seemed to favor a rapid multiplication of insect pests that did a large amount of damage. Potato beetles were more numerous and destructive than for many years, and the Japanese beetle season was prolonged from two to three weeks later than usual. The seeding of winter wheat, which ordinarily is mostly done during the last half of September, was delayed and was mostly carried over into October. Pastures dried up so rapidly that there was little feed during the month. Late corn did not develop ears, and was mostly cut for ensilage. Tobacco was set out in the fields at the

beginning of the drought, and was the poorest crop for many years.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 88 stations, was 65.2°, an excess of 1.1° as compared with the September normal. The highest monthly mean was 72.4° at Holtwood, and the lowest, 54.9° at Gouldsboro. Extremes for the month ranged from a maximum of 105° at Hyndman and Lewisburg on the 1st, to a minimum of 23°, at Wellsboro on the 26th and 30th and at Somerset on the 30th. The greatest daily range of temperature was 58°, at Butler on the 19th.

## PRECIPITATION.

The average precipitation for the State, as determined by the reports of 145 well-distributed stations, was 1.45 inches, which is 2.01 inches less than the September normal. The greatest monthly amount was 3.43 inches, at Pleasant Mount, while the lowest, 0.48 inch, was reported from Selinsgrove. The greatest amount recorded in any 24 consecutive hours was 2.03 inches, at Chambersburg on the 4-5th.

## COMPARATIVE DATA FOR SEPTEMBER

| Year          | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|---------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|               | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....     | 59.6        | .....   | .....  | 4.84          | .....    | ..... | .....       | .....         | .....  | .....                  |
| 1889.....     | 61.9        | .....   | .....  | 5.05          | .....    | ..... | .....       | .....         | .....  | .....                  |
| 1890.....     | 62.2        | 91      | 25     | 4.57          | 8.54     | 2.05  | 10          | 9             | 11     | 11                     |
| 1891.....     | 66.6        | 94      | 32     | 2.39          | 5.00     | 1.05  | 17          | 8             | 5      | .....                  |
| 1892.....     | 62.4        | 90      | 29     | 2.81          | 4.85     | 1.18  | 16          | 7             | 7      | 7                      |
| 1893.....     | 61.2        | 90      | 26     | 2.67          | 5.59     | 0.72  | 9           | 12            | 9      | 8                      |
| 1894.....     | 66.6        | 95      | 24     | 6.30          | 12.36    | 2.82  | 10          | 10            | 10     | 10                     |
| 1895.....     | 67.8        | 100     | 24     | 1.71          | 5.41     | 0.37  | 16          | 9             | 5      | 6                      |
| 1896.....     | 63.6        | 98      | 26     | 4.82          | 8.57     | 1.73  | 13          | 8             | 9      | 10                     |
| 1897.....     | 63.8        | 100     | 24     | 2.18          | 4.21     | 0.25  | 18          | 7             | 5      | 5                      |
| 1898.....     | 66.0        | 100     | 25     | 1.70          | 3.95     | 0.38  | 16          | 8             | 6      | 6                      |
| 1899.....     | 61.8        | 93      | 23     | 4.70          | 9.31     | 2.03  | 12          | 9             | 9      | 10                     |
| 1900.....     | 68.4        | 100     | 27     | 1.77          | 6.90     | 0.48  | 13          | 10            | 7      | 6                      |
| 1901.....     | 63.6        | 95      | 29     | 3.39          | 6.61     | 1.64  | 14          | 7             | 9      | 9                      |
| 1902.....     | 62.7        | 99      | 28     | 4.66          | 11.95    | 1.50  | 12          | 8             | 10     | 11                     |
| 1903.....     | 63.2        | 94      | 27     | 2.09          | 3.88     | 0.91  | 17          | 8             | 5      | 6                      |
| 1904.....     | 63.7        | 95      | 21     | 3.37          | 7.40     | 0.82  | 13          | 10            | 7      | 9                      |
| 1905.....     | 64.0        | 95      | 27     | 3.41          | 7.30     | 1.70  | 15          | 9             | 6      | 7                      |
| 1906.....     | 67.0        | 99      | 30     | 2.46          | 6.57     | 0.36  | 15          | 9             | 6      | 7                      |
| 1907.....     | 64.8        | 95      | 29     | 6.37          | 11.86    | 2.18  | 8           | 10            | 12     | 14                     |
| 1908.....     | 65.6        | 99      | 26     | 1.60          | 4.06     | 0.51  | 17          | 9             | 4      | 3                      |
| 1909.....     | 62.8        | 96      | 26     | 2.27          | 4.90     | 0.64  | 16          | 9             | 6      | 6                      |
| 1910.....     | 65.5        | 95      | 32     | 4.49          | 8.45     | 2.26  | 13          | 8             | 9      | 10                     |
| 1911.....     | 64.9        | 92      | 26     | 5.29          | 10.13    | 1.85  | 13          | 9             | 8      | 10                     |
| 1912.....     | 65.5        | 95      | 25     | 5.57          | 11.43    | 2.47  | 12          | 7             | 11     | 12                     |
| 1913.....     | 62.4        | 97      | 24     | 3.28          | 8.43     | 1.24  | 13          | 7             | 10     | 8                      |
| 1914.....     | 61.5        | 98      | 21     | 0.99          | 2.67     | 0.03  | 18          | 7             | 5      | 5                      |
| 1915.....     | 66.5        | 96      | 25     | 2.56          | 6.96     | 0.45  | 16          | 9             | 5      | 8                      |
| 1916.....     | 62.5        | 98      | 23     | 3.77          | 8.13     | 0.91  | 17          | 8             | 5      | 8                      |
| 1917.....     | 59.0        | 91      | 25     | 2.31          | 6.34     | 0.00  | 16          | 9             | 5      | 6                      |
| 1918.....     | 58.7        | 88      | 28     | 3.97          | 7.52     | 1.82  | 12          | 8             | 10     | 10                     |
| 1919.....     | 64.4        | 96      | 28     | 2.07          | 4.09     | 0.46  | 16          | 8             | 6      | 8                      |
| 1920.....     | 64.5        | 91      | 24     | 3.99          | 9.40     | 0.97  | 16          | 8             | 8      | 9                      |
| 1921.....     | 63.9        | 98      | 31     | 4.63          | 11.48    | 1.47  | 13          | 9             | 8      | 11                     |
| 1922.....     | 66.3        | 100     | 22     | 1.48          | 3.73     | 0.17  | 19          | 7             | 4      | 4                      |
| 1923.....     | 64.8        | 92      | 22     | 3.55          | 8.68     | 1.54  | 13          | 10            | 7      | 10                     |
| 1924.....     | 59.8        | 99      | 26     | 6.44          | 11.72    | 3.46  | 11          | 7             | 12     | 11                     |
| 1925.....     | 67.5        | 99      | 24     | 2.80          | 7.63     | 0.86  | 11          | 12            | 7      | 8                      |
| 1926.....     | 64.2        | 99      | 26     | 5.81          | 13.90    | 2.23  | 11          | 7             | 12     | 12                     |
| 1927.....     | 64.9        | 97      | 27     | 2.08          | 7.00     | 0.20  | 18          | 7             | 5      | 6                      |
| 1928.....     | 60.4        | 94      | 25     | 2.33          | 5.73     | 0.71  | 12          | 9             | 9      | 9                      |
| 1929.....     | 65.7        | 101     | 24     | 3.71          | 8.72     | 1.05  | 14          | 8             | 8      | 9                      |
| 1930.....     | 67.8        | 101     | 27     | 2.45          | 7.01     | 0.64  | 15          | 10            | 5      | 9                      |
| 1931.....     | 69.1        | 104     | 29     | 3.15          | 6.65     | 0.74  | 16          | 8             | 6      | 9                      |
| 1932.....     | 65.2        | 105     | 23     | 1.45          | 3.43     | 0.48  | 16          | 9             | 5      | 6                      |
| Normal and..  | 64.1        | .....   | .....  | 3.46          | .....    | ..... | 14          | 9             | 7      | 9                      |
| Extremes..... | .....       | 105     | 21     | .....         | 13.90    | 0.00  | .....       | .....         | .....  | .....                  |



## Climatological Data for September, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |      |                 |      | Precipitation, in inches |       |                           |                      | No. of days               |                             |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|------|-----------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|-----------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date | Lowest          | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                             |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 20                      | 65.4                         | .....                     | 97              | 1    | 34              | 30   | 39                       | 0.95  | -2.40                     | 0.22                 | 0                         | 7                           | 21    | 6          | 3                            | ne.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 63.7                         | +0.6                      | 96              | 1    | 32              | 30   | 52                       | 0.85  | -2.02                     | 0.68                 | 0                         | 3                           | 27    | 2          | 1                            | w.        | F. E. Rooney.               |
| Ardenmore          | Montgomery   | 350             | ...                     | 66.8                         | -0.5                      | 95              | 1    | 41              | 30   | 31                       | 1.63  | -2.32                     | 0.80                 | 0                         | 6                           | ...   | ...        | ...                          | ...       | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 65.6                         | .....                     | 97              | 1    | 33              | 30   | 40                       | 1.59  | .....                     | 0.52                 | 0                         | 4                           | 17    | 8          | 5                            | ...       | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | ...                     | 65.4                         | -3.3                      | 101             | 1    | 31              | 26   | 45                       | 2.08  | .....                     | 1.45                 | 0                         | 5                           | 19    | 6          | 5                            | nw.       | Charles C. Lea.             |
| Bellefonte         | Center       | 1,050           | 24                      | 61.6                         | -3.3                      | 96              | 1    | 30              | 26   | 43                       | 0.62  | -2.49                     | 0.44                 | 0                         | 4                           | 12    | 11         | 7                            | ...       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 68.5                         | +1.8                      | 101             | 1    | 38              | 30   | 39                       | 0.89  | -2.45                     | 0.31                 | 0                         | 6                           | 18    | 4          | 8                            | sw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 67.2                         | +2.0                      | 102             | 1    | 30              | 26   | 43                       | 0.89  | -2.59                     | 0.44                 | 0                         | 3                           | 21    | 6          | 3                            | se.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 65.2                         | +1.2                      | 101             | 1    | 31              | 30   | 47                       | 1.59  | -1.83                     | 0.53                 | 0                         | 5                           | 17    | 9          | 4                            | ...       | W. L. Gearhart.             |
| Center Hill        | Center       | 1,272           | 36                      | 62.0                         | -0.2                      | 95              | 1    | 35              | 26   | 32                       | 0.96  | -2.11                     | 0.86                 | 0                         | 2                           | 25    | 3          | 2                            | ...       | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 67.4                         | +1.3                      | 101             | 1    | 34              | 30   | 40                       | 2.85  | -0.07                     | 2.03                 | 0                         | 5                           | 13    | 12         | 5                            | ne.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | 64.0                         | +0.1                      | 100             | 1    | 29              | 26   | 49                       | 1.13  | -2.35                     | 0.70                 | 0                         | 3                           | 14    | 14         | 2                            | nw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 45                      | 67.1                         | +0.9                      | 96              | 1    | 37              | 26   | 38                       | 1.09  | -2.75                     | 0.57                 | 0                         | 5                           | 19    | 2          | 9                            | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 64.6                         | +0.4                      | 95              | 1    | 30              | 30   | 38                       | 1.34  | -2.23                     | 0.64                 | 0                         | 5                           | 19    | 7          | 4                            | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 61.6                         | +0.2                      | 92              | 1    | 30              | 26   | 43                       | 2.94  | -0.55                     | 1.95                 | 0                         | 9                           | 15    | 11         | 4                            | n.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 68.4                         | +2.6                      | 100             | 1    | 36              | 30   | 43                       | 1.62  | -1.85                     | 0.61                 | 0                         | 5                           | 14    | 10         | 6                            | n.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 62.9                         | +3.3                      | 91              | 1    | 32              | 30   | 29                       | 1.80  | -1.98                     | 0.75                 | 0                         | 3                           | 10    | 13         | 7                            | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 67.4                         | +1.4                      | 95              | 1    | 35              | 30   | 41                       | 2.94  | -0.33                     | 1.72                 | 0                         | 8                           | 21    | 7          | 2                            | s.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 59                      | 67.8                         | +2.2                      | 97              | 1    | 36              | 30   | 35                       | 1.80  | -1.64                     | 0.62                 | 0                         | 8                           | 18    | 6          | 6                            | s.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 28                      | 63.4                         | +1.1                      | 97              | 1    | 27              | 30   | 46                       | 1.34  | -2.89                     | 0.48                 | 0                         | 6                           | 13    | 12         | 5                            | s.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 54.9                         | .....                     | 82              | 1    | 26              | 26   | 30                       | 2.65  | -0.99                     | 0.80                 | 0                         | 7                           | 16    | 9          | 5                            | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 39                      | 64.7                         | -0.6                      | 96              | 1    | 33              | 26   | 41                       | 1.69  | -2.36                     | 0.72                 | 0                         | 3                           | 23    | 1          | 6                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 69.1                         | +1.5                      | 97              | 1    | 37              | 30   | 36                       | 0.88  | -2.20                     | 0.56                 | 0                         | 5                           | 17    | 6          | 7                            | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 68.3                         | +2.5                      | 98              | 1    | 41              | 30   | 33                       | 1.08  | -1.97                     | 0.67                 | 0                         | 4                           | 11    | 13         | 6                            | n.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 60.8                         | -0.9                      | 97              | 1    | 27              | 26   | 49                       | 1.58  | -1.78                     | 1.18                 | 0                         | 10                          | 17    | 11         | 2                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 72.4                         | +3.4                      | 100             | 1    | 27              | 30   | 32                       | 2.60  | +0.09                     | 0.87                 | 0                         | 5                           | 13    | 11         | 6                            | nw.       | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 65.2                         | +0.6                      | 100             | 1    | 29              | 26   | 47                       | 1.16  | -2.15                     | 1.06                 | 0                         | 3                           | 18    | 9          | 3                            | nw.       | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 66.2                         | +0.8                      | 105             | 1    | 30              | 30   | 47                       | 0.90  | -2.07                     | 0.56                 | 0                         | 6                           | 14    | 8          | 8                            | s.        | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 63.8                         | -1.7                      | 99              | 2    | 32              | 26   | 45                       | 1.67  | -1.69                     | 0.80                 | 0                         | 4                           | 22    | 7          | 1                            | s.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 62.6                         | +1.1                      | 100             | 1    | 26              | 30   | 55                       | 1.52  | -1.49                     | 0.75                 | 0                         | 6                           | 13    | 13         | 4                            | n.        | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 67.7                         | +2.1                      | 99              | 1    | 36              | 30   | 41                       | 1.38  | -1.95                     | 0.61                 | 0                         | 5                           | 18    | 11         | 1                            | ne.       | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 56                      | 67.6                         | +1.2                      | 105             | 1    | 32              | 26   | 47                       | 1.11  | -2.38                     | 0.53                 | 0                         | 5                           | 14    | 10         | 6                            | sw.       | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 66.8                         | +2.0                      | 102             | 1    | 32              | 30   | 49                       | 0.86  | -2.55                     | 0.38                 | 0                         | 5                           | 13    | 16         | 1                            | nw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 65.7                         | +1.3                      | 102             | 1    | 28              | 30   | 53                       | 1.64  | -2.66                     | 1.25                 | 0                         | 3                           | 18    | 9          | 3                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 71.5                         | .....                     | 101             | 1    | 42              | 30   | 35                       | 1.44  | .....                     | 0.92                 | 0                         | 5                           | 25    | 4          | 1                            | no.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 65.2                         | +1.0                      | 103             | 1    | 29              | 30   | 54                       | 1.30  | -2.70                     | 0.39                 | 0                         | 4                           | 16    | 7          | 7                            | w.        | R. K. Wintermute.           |
| Midlinton          | Juniata      | 445             | 28                      | 65.8                         | +1.3                      | 99              | 1    | 32              | 26   | 44                       | 0.91  | -2.57                     | 0.36                 | 0                         | 4                           | 12    | 6          | 12                           | w.        | Wellington Smith.           |
| Montrose           | Susquehanna  | 1,720           | 28                      | 61.0                         | +0.5                      | 94              | 1    | 28              | 30   | 31                       | 2.47  | -1.42                     | 1.10                 | 0                         | 7                           | 16    | 9          | 5                            | s.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 55.8                         | -2.6                      | 86              | 1    | 25              | 26   | 36                       | 0.79  | -4.17                     | 0.35                 | 0                         | 3                           | 15    | 6          | 9                            | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 61.8                         | +0.3                      | 96              | 1    | 26              | 30   | 47                       | 2.50  | -1.35                     | 0.77                 | 0                         | 8                           | 19    | 7          | 4                            | nw.       | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 43                      | 65.4                         | 0.0                       | 93              | 1    | 40              | 29   | 39                       | 1.23  | -2.17                     | 0.53                 | 0                         | 7                           | 18    | 7          | 5                            | e.        | Philadelphia Sub. Water Co. |
| Neshaminy          | Carbon       | 398             | 14                      | 64.4                         | .....                     | 96              | 1    | 31              | 26   | 45                       | 0.87  | -2.60                     | 0.63                 | 0                         | 3                           | 14    | 9          | 7                            | ne.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 70.8                         | +2.8                      | 97              | 1    | 45              | 30   | 23                       | 1.05  | -2.09                     | 0.36                 | 0                         | 6                           | 11    | 11         | 8                            | n.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 8                       | 70.6                         | .....                     | 98              | 1    | 42              | 30   | 27                       | 1.20  | .....                     | 0.44                 | 0                         | 6                           | 11    | 17         | 2                            | n.        | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 69.2                         | +1.0                      | 91              | 2    | 43              | 30   | 27                       | 1.84  | -1.31                     | 0.89                 | 0                         | 9                           | ...   | ...        | ...                          | ...       | Commandant Navy Yard.       |
| Phoenixville       | Chester      | 100             | 22                      | 70.0                         | +3.3                      | 100             | 1    | 38              | 26   | 46                       | 1.25  | -2.00                     | 0.37                 | 0                         | 6                           | 19    | 10         | 1                            | sw.       | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 64.4                         | +0.4                      | 93              | 1    | 29              | 30   | 45                       | 1.55  | -2.08                     | 0.57                 | 0                         | 4                           | 17    | 7          | 6                            | nw.       | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 68.0                         | +1.7                      | 96              | 1    | 41              | 26   | 35                       | 0.66  | -2.55                     | 0.44                 | 0                         | 3                           | 11    | 9          | 10                           | sw.       | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 64.0                         | +1.1                      | 97              | 1    | 32              | 30   | 41                       | 1.33  | -1.84                     | 0.65                 | 0                         | 8                           | 9     | 18         | 3                            | n.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 66.0                         | +1.2                      | 100             | 1    | 31              | 26   | 44                       | 0.48  | -3.04                     | 0.32                 | 0                         | 3                           | 17    | 8          | 5                            | sw.       | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 36                      | 69.2                         | +1.1                      | 96              | 2    | 38              | 30   | 34                       | 0.91  | -2.37                     | 0.43                 | 0                         | 5                           | 14    | 10         | 6                            | nw.       | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 64.1                         | +1.5                      | 97              | 1    | 35              | 26   | 40                       | 0.59  | -2.47                     | 0.35                 | 0                         | 4                           | 15    | 12         | 3                            | ne.       | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 18                      | 63.2                         | +0.8                      | 95              | 1    | 27              | 26   | 52                       | 0.54  | -2.35                     | 0.48                 | 0                         | 2                           | 20    | 5          | 5                            | w.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 62.2                         | -0.1                      | 97              | 1    | 28              | 26   | 48                       | 2.18  | -0.97                     | 0.73                 | 0                         | 7                           | 9     | 15         | 6                            | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 61.2                         | +1.5                      | 103             | 1    | 23              | 26   | 57                       | 0.68  | -2.48                     | 0.42                 | 0                         | 4                           | 21    | 5          | 4                            | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 67.2                         | +1.7                      | 93              | 1    | 41              | 30   | 28                       | 2.09  | -1.80                     | 1.23                 | 0                         | 5                           | 15    | 12         | 3                            | n.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 66.2                         | +1.8                      | 100             | 1    | 31              | 30   | 45                       | 1.82  | -1.45                     | 1.11                 | 0                         | 5                           | 9     | 11         | 10                           | nw.       | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 67.2                         | +1.0                      | 101             | 1    | 32              | 30   | 43                       | 1.80  | -2.01                     | 0.62                 | 0                         | 5                           | 20    | 8          | 2                            | n.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                             |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 40                      | 66.6                         | +0.4                      | 98              | 1    | 35              | 30   | 40                       | 5.75  | -2.31                     | 0.30                 | 0                         | 7                           | 12    | 9          | 9                            | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | 59.4                         | -1.0                      | 92              | 1    | 29              | 30   | 46                       | 1.86  | -2.55                     | 0.44                 | 0                         | 11                          | 18    | 6          | 6                            | sw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 61.6 <sup>b</sup>            | +1.5                      | 98 <sup>b</sup> | 2    | 27 <sup>b</sup> | 27   | 51 <sup>b</sup>          | 1.84  | -1.49                     | 0.80                 | 0                         | 6                           | 22    | 5          | 3                            | ...       | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 65.3                         | .....                     | 98              | 1    | 31              | 25   | 58                       | 1.87  | -1.06                     | 0.76                 | 0                         | 5                           | 15    | 14         | 1                            | w.        | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 2                       | 65.0                         | +0.2                      | 96              | 1    | 29              | 30   | 43                       | 1.45  | -2.40                     | 0.54</               |                           |                             |       |            |                              |           |                             |



## Daily Precipitation for September, 1932

| Stations           | Drainage Basin | Day of month |      |     |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |      |     |    |      | Total |
|--------------------|----------------|--------------|------|-----|------|-----|-----|---|----|---|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|------|-----|----|------|-------|
|                    |                | 1            | 2    | 3   | 4    | 5   | 6   | 7 | 8  | 9 | 10  | 11 | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25 | 26  | 27  | 28   | 29  | 30 | 31   |       |
| Atlantic Drainage. |                |              |      |     |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |      |     |    |      |       |
| Allentown          | Lehigh         | .13          |      |     |      | .18 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     | .18 |    | .22 | .13 | .11  |     |    | 0.95 |       |
| Altoona            | Juniata        |              |      | .05 |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .12 | .68  |     |    | 0.85 |       |
| Ansonia            | W. Br. Susq.   | .09          |      | .17 |      |     |     |   |    |   |     |    |    |     | .04 | T.  |     |     |     |     | .03 |     |     | .01 | .18 | T. |     | .01 | 1.06 |     |    | 1.58 |       |
| Ardmore            | Lower Del.     |              |      | .66 | .14  |     |     |   |    |   | .06 |    |    |     |     |     |     |     |     |     |     |     |     | .11 |     |    |     | .52 | .14  |     |    | 1.63 |       |
| Arendtsville       | Lower Susq.    |              |      | .40 |      | .51 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .52 | .16  |     |    | 1.59 |       |
| Baker's Summit     | Juniata        | .35          |      | .10 | .03  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     | .04 |     |     |     |    |     | .16 | .33  |     |    | 1.01 |       |
| Bedford            | Juniata        | 1.45         |      | .04 |      |     |     |   |    |   |     |    |    |     | .03 |     |     |     |     |     |     |     |     |     |     |    |     | .10 | .46  |     |    | 2.08 |       |
| Bellefonte         | W. Br. Susq.   |              | T.   | .03 |      |     |     |   |    |   |     |    |    |     | T.  |     |     | T.  |     |     |     |     |     |     |     |    | .04 | .44 | .11  |     |    | 0.62 |       |
| Bethlehem          | Lehigh         | T.           |      | .08 | .12  | .04 |     |   |    |   |     |    |    |     | .20 |     |     |     |     |     |     |     |     |     |     |    |     | .24 | .31  |     |    | 0.89 |       |
| Blossville         | Lower Susq.    |              |      |     |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .22 | .32  |     |    | 0.74 |       |
| Buffalo Mills      | Juniata        |              |      |     |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |      |     |    |      |       |
| Carlisle           | Lower Susq.    |              |      | T.  | .14  | T.  |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     | .31  | .44 |    |      | 0.89  |
| Catawissa          | N. Br. Susq.   |              |      | .32 | .53  | .02 |     |   |    |   |     |    |    |     | T.  |     |     |     |     |     |     |     |     |     |     |    |     | .49 | .23  |     |    | 1.59 |       |
| Center Hall        | Susquehanna    |              |      |     |      |     |     |   |    |   |     |    |    |     | .10 |     |     |     |     |     |     |     |     |     |     |    |     |     | .86  |     |    | 0.96 |       |
| Chambersburg       | Potomac        |              |      | .26 | 2.03 | .21 |     |   |    |   |     |    |    |     | T.  |     |     |     |     |     |     |     |     |     |     |    |     | .25 | .10  |     |    | 2.85 |       |
| Clearfield         | W. Br. Susq.   |              |      |     |      |     |     |   |    |   |     |    |    |     | .18 |     |     | T.  |     |     |     |     |     |     |     |    |     | .25 | .70  |     |    | 1.13 |       |
| Coatesville        | Lower Del.     | .02          |      | T.  |      | .10 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .57 | .25  |     |    | 1.09 |       |
| Colebrook          | Lower Susq.    |              | .04  | T.  | .32  | .01 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .64 | .33  |     |    | 1.34 |       |
| Conshohocken       | Schuylkill     |              |      |     |      | .16 |     |   |    |   |     |    |    |     |     |     | .41 |     |     |     |     |     |     |     |     |    |     | .33 | T.   |     |    | 0.90 |       |
| Cresson            | Juniata        |              |      |     |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .50 | .39  |     |    | 0.89 |       |
| Doylestown         | Lower Del.     | .16          |      | T.  | .02  | .04 |     |   |    |   |     |    |    |     |     |     | T.  |     |     |     |     |     |     |     |     |    |     | .23 | .37  |     |    | 0.86 |       |
| Emporium           | W. Br. Susq.   |              |      | .04 | .12  |     |     |   |    |   |     |    |    | .05 | .24 |     |     | T.  |     |     | .23 | .25 |     |     |     |    |     | .04 | .06  | T.  |    | 2.94 |       |
| Ephrata            | Lower Susq.    | .39          |      | T.  | .06  | .26 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     | .61  | .30 |    |      | 1.62  |
| Forest City        | N. Br. Susq.   |              | .35  | T.  |      |     |     |   |    |   |     |    |    |     | T.  |     |     |     |     |     |     |     |     |     |     |    |     | .25 | .35  | T.  |    | 1.04 |       |
| Freeland           | Lehigh         | .48          |      |     | .02  | .46 | .02 |   |    |   |     |    |    |     |     | .01 |     |     |     |     |     |     |     |     |     |    |     | .43 | .32  | .06 |    | 1.80 |       |
| Galeton            | W. Br. Susq.   | T.           |      | .12 |      |     |     |   |    |   |     |    |    |     | .20 |     |     |     |     |     |     |     |     |     |     |    |     | .48 | 1.07 | T.  |    | 2.27 |       |
| George School      | Lower Del.     | 1.72         | .03  |     | .01  | .10 |     |   |    |   |     |    |    |     |     | .54 |     |     |     |     |     |     |     |     |     |    |     | .29 | .16  |     |    | 2.94 |       |
| Gettysburg         | Potomac        |              | .29  | .01 | .17  | .01 | .31 |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .62 | .38  |     |    | 1.80 |       |
| Girardville        | Lower Susq.    |              |      | .35 | .03  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .27 | .06  |     |    | 0.93 |       |
| Gordon             | Lower Susq.    | .48          |      |     | .26  | .07 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .26 | .22  |     |    | 1.34 |       |
| Gouldsboro         | Lehigh         |              |      |     | .19  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .32 | .62  |     |    | 2.65 |       |
| Graterford         | Schuylkill     | .67          |      |     |      |     |     |   |    |   |     |    |    |     |     |     | .18 | .03 |     |     |     |     |     |     |     |    |     | .22 | .34  |     |    | 1.37 |       |
| Hamburg            | Schuylkill     |              |      | .72 |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .37 | .60  |     |    | 1.69 |       |
| Hanover            | Lower Susq.    | .01          |      | .03 |      | T.  |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .56 | .25  |     |    | 0.88 |       |
| Harrisburg         | Lower Susq.    |              |      | T.  | .20  |     |     |   |    |   |     |    |    |     | T.  |     |     |     |     |     |     |     |     |     |     |    |     | .64 | .21  |     |    | 1.08 |       |
| Hawley             | Upper Del.     | .02          | 1.16 |     | .01  | .07 |     |   |    |   |     |    |    |     | .05 |     |     |     | .01 |     | .02 |     |     |     |     |    |     | .17 |      | .06 |    | 1.58 |       |
| Hollisterville     | Upper Del.     | .40          |      | .02 | .06  |     |     |   |    |   |     |    |    |     | .04 |     |     |     |     | T.  |     | .05 |     |     |     |    |     | .10 | .35  | .02 |    | 1.04 |       |
| Holtwood           | Lower Susq.    |              | .56  | .54 |      | .87 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .52 | .11  |     |    | 2.60 |       |
| Huntingdon         | Juniata        | .03          |      | .07 |      |     |     |   |    |   |     |    |    |     |     | T.  |     |     |     |     |     |     |     |     |     |    |     | T.  | 1.06 |     |    | 1.16 |       |
| Hyndman            | Potomac        | .01          |      | .03 |      |     |     |   |    |   |     |    |    |     | .08 | .08 |     |     |     |     |     |     |     |     |     |    |     | .14 | .56  |     |    | 0.90 |       |
| Kylertown          | W. Br. Susq.   |              |      |     |      |     |     |   |    |   |     |    |    |     | .08 | .06 |     |     |     |     |     |     | .01 |     |     |    |     | .13 | .42  |     |    | 0.70 |       |
| Lakeville          | Upper Del.     | .30          |      | .06 |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .26 | .23  | .15 |    | 1.00 |       |
| Lancaster          | Lower Susq.    |              | .07  |     | .80  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .65 | .15  |     |    | 1.67 |       |
| Lansford           | Lehigh         | .08          |      |     | .37  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .34 | .25  | .05 |    | 1.09 |       |
| Lawrenceville      | N. Br. Susq.   |              |      | .10 |      |     |     |   |    |   |     |    |    |     | .05 |     |     | T.  |     | .10 |     |     |     |     |     |    |     | .20 | .75  |     |    | 1.52 |       |
| Lebanon            | Lower Susq.    |              |      | .14 | .10  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .61 | .18  | .35 |    | 1.38 |       |
| Lebanon            | W. Br. Susq.   |              | .12  | .23 |      |     |     |   |    |   |     |    |    |     | .10 |     |     |     |     |     |     |     |     |     |     |    |     |     | .13  | .53 |    |      | 1.11  |
| Lewisburg          | do.            |              |      | .08 |      |     |     |   |    |   |     |    |    |     | .04 |     |     |     |     |     |     |     |     |     |     |    |     | .76 | 1.00 |     |    | 2.06 |       |
| Lock Haven         | W. Br. Susq.   |              |      | .03 | .07  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .19 | .38  |     |    | 0.86 |       |
| Lykens             | Susquehanna    |              |      |     | 1.25 |     |     |   | T. |   |     |    |    |     |     | T.  |     |     |     |     |     |     |     |     |     |    |     | .23 | .16  |     |    | 1.64 |       |
| Marcus Hook        | Lower Del.     | .02          | .34  | .58 |      |     |     |   |    |   |     |    |    |     | .10 |     |     |     |     |     |     |     |     |     |     |    |     |     | .40  |     |    | 1.44 |       |
| Matamoras          | Upper Del.     | .11          | .99  |     |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .35 | .23  | .04 |    | 1.72 |       |
| Mauch Chunk        | Lehigh         |              |      | .37 | .15  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .39 | .39  |     |    | 1.30 |       |
| Millintown         | Juniata        |              |      | .16 | .18  |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     | .21 | .36  |     |    | 0.91 |       |
| Montrose           | N. Br. Susq.   |              | .52  | .05 |      |     |     |   |    |   |     |    |    |     | .10 |     |     | T.  |     | .30 |     |     |     |     |     |    |     | .30 | 1.10 |     |    | 2.47 |       |
| Morris Run         | N. Br. Susq.   |              |      | .05 |      |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     | .35  | .16 |    |      | 0.79  |
| Mount Pocono       | Upper Del.     |              |      | .28 |      |     |     |   |    |   |     |    |    |     | .05 |     |     |     |     |     |     |     |     |     |     |    |     | .38 | .62  |     |    | 2.50 |       |
| Muncy Valley       | W. Br. Susq.   | .77          | .08  | .24 | .31  |     |     |   |    |   |     |    |    |     | .05 |     |     |     |     |     |     |     |     |     |     |    |     | .01 | .15  | .01 |    | 1.23 |       |
| Neshaminy          | Lower Del.     |              |      |     | .06  |     |     |   |    |   |     |    |    |     | .12 | .53 |     |     |     |     |     |     |     |     |     |    |     | .77 |      |     |    | 2.03 |       |
| New Park           | Lower Susq.    | T.           | .16  |     | 1.10 |     |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |      |     |    |      |       |
| Newport            | Juniata        |              |      |     |      | .88 |     |   |    |   |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |      |     |    |      |       |



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| Stations        | Drainage Basin | Day of month |     |     |     |     |   |   |   |    |     |    |    |     |      |     |    |     |     |     |     |     |     |      |     |     |     |     |      |     |     |    | Total |  |
|-----------------|----------------|--------------|-----|-----|-----|-----|---|---|---|----|-----|----|----|-----|------|-----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|----|-------|--|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6 | 7 | 8 | 9  | 10  | 11 | 12 | 13  | 14   | 15  | 16 | 17  | 18  | 19  | 20  | 21  | 22  | 23   | 24  | 25  | 26  | 27  | 28   | 29  | 30  | 31 |       |  |
| Ohio Drainage.  |                |              |     |     |     |     |   |   |   |    |     |    |    |     |      |     |    |     |     |     |     |     |     |      |     |     |     |     |      |     |     |    |       |  |
| Beaver Dam      | Ohio           |              |     |     | .15 | .02 |   |   |   |    |     |    |    |     | .14  | .01 |    |     |     |     |     | .05 |     |      |     |     |     | .08 | .30  |     |     |    | 0.75  |  |
| Beaver Falls    | Beaver         |              |     |     | .10 | .02 |   |   |   |    |     |    |    |     | .01  | T.  |    |     |     |     |     | .09 |     |      |     |     |     | .08 | .27  |     |     |    | 0.57  |  |
| Bradford        | Allegheny      |              |     |     | .14 | .10 |   |   |   |    |     |    |    |     | .18  |     |    | .18 |     | .25 |     | .09 |     |      | .23 | .03 | .02 | .27 | .44  | .02 |     |    | 1.86  |  |
| Brookville      | do             |              |     | .12 | .05 | .12 |   |   |   |    |     |    |    |     | .55  |     |    |     |     |     |     |     |     |      |     |     |     | .20 | .80  |     |     |    | 1.84  |  |
| Butler          | Ohio           |              | .59 |     | .13 |     |   |   |   |    |     |    |    |     | .76  |     |    |     |     |     | .02 |     |     |      |     |     |     | .37 | .40  |     |     |    | 1.87  |  |
| Chambersville   | Allegheny      |              |     |     |     |     |   |   |   |    |     |    |    | T.  | .54  |     |    |     |     |     |     | .05 | .04 |      | .05 |     |     | .37 | .40  |     |     |    | 1.45  |  |
| Clairton        | Monongahela    | .09          | .50 |     | .02 |     |   |   |   |    |     |    |    |     | .40  |     |    |     |     |     |     | .02 | T.  | T.   |     |     |     | .12 | .21  | .36 |     |    | 1.72  |  |
| Claysville      | Ohio           |              | .91 |     | .02 |     |   |   |   |    |     |    |    |     | .44  |     |    |     |     |     |     | .14 | .01 | .01  | .39 |     | T.  | .20 | .21  |     |     |    | 2.33  |  |
| Clymer          | Conemaugh      |              |     |     | .04 |     |   |   |   |    |     |    |    | .30 | .45  |     |    |     |     |     |     |     |     |      |     |     | .20 | .60 |      |     |     |    | 1.59  |  |
| Confluence      | Youghiogheny   |              |     |     | .05 |     |   |   |   |    |     |    |    |     | .17  |     |    |     |     |     |     |     |     |      |     |     |     | .17 | .59  |     |     |    | 0.98  |  |
| Corry           | Allegheny      |              |     |     | .63 | .28 |   |   |   |    |     |    |    | .54 |      |     |    | .17 |     |     | .26 |     |     |      |     | .13 | .02 | .37 | .06  | .03 | .04 |    | 2.53  |  |
| Coudersport     | Allegheny      | .05          |     | .04 | .03 |     |   |   |   |    |     |    |    | .19 | .08  |     |    | .03 |     | .22 |     |     |     |      | .11 |     |     | .06 | .33  |     |     |    | 1.74  |  |
| Derry           | Conemaugh      |              | .15 |     | T.  |     |   |   |   |    |     |    |    | .28 | .02  |     |    |     |     |     |     |     |     |      |     |     |     | .22 | .26  | .21 |     |    | 1.14  |  |
| Donora          | Monongahela    |              | .24 |     | T.  |     |   |   |   |    |     |    |    | .06 |      |     |    |     |     | T.  |     |     |     |      | .08 | .01 |     | .09 | .62  |     |     |    | 1.10  |  |
| Ebensburg       | Conemaugh      |              |     |     | .07 |     |   |   |   |    |     |    |    | T.  | .11  |     |    |     |     |     |     | T.  |     |      |     |     |     | .09 | .51  |     |     |    | 0.78  |  |
| Elk Lick        | Youghiogheny   |              |     |     |     |     |   |   |   |    |     |    |    |     |      |     |    |     |     |     |     |     |     |      |     |     |     |     |      |     |     |    |       |  |
| Falls Creek     | Allegheny      |              |     |     |     |     |   |   |   |    |     |    |    |     |      |     |    |     |     |     |     |     |     |      |     |     |     |     |      |     |     |    |       |  |
| Franklin        | Allegheny      |              |     |     | .14 | .04 |   |   |   |    |     |    |    |     | .39  | .04 |    |     |     | T.  |     | .05 |     | .16  |     |     |     | .26 | .82  |     | .09 |    | 1.99  |  |
| Freeport        | do             |              |     |     |     | .09 |   |   |   |    | .02 |    |    |     | .30  |     |    |     |     |     |     | .01 |     | .17  |     |     |     | .07 | .16  |     |     |    | 0.82  |  |
| Greensboro      | Monongahela    |              | T.  | .15 | .01 | T.  |   |   |   |    |     |    |    |     | .01  |     |    |     |     |     |     |     |     |      | .20 |     |     | .08 | .78  |     |     |    | 1.23  |  |
| Greensburg      | Youghiogheny   |              | .07 |     | .02 |     |   |   |   |    |     |    |    |     | .13  |     |    |     |     |     | T.  | T.  |     |      | .02 |     |     | T.  | .41  | .29 |     |    | 0.94  |  |
| Greenville      | Beaver         |              |     |     | .40 |     |   |   |   |    |     |    |    |     | .40  |     |    | .03 |     |     |     |     |     |      |     |     |     | T.  | 1.05 |     | .43 |    | 2.31  |  |
| Grove City      | do             |              | .45 |     | .13 | .33 |   |   |   |    |     |    |    |     | .10  |     |    |     |     |     | T.  |     |     | .37  |     |     |     | T.  | .76  | .48 |     |    | 2.62  |  |
| Herrs Isl. Dam  | Ohio           |              | .04 |     | T.  |     |   |   |   |    |     |    |    |     | .38  |     |    |     |     |     |     |     | .01 |      | .01 | T.  |     | .04 | .35  |     |     |    | 0.83  |  |
| Ingram          | Ohio           | .01          | .14 |     | T.  |     |   |   |   |    |     |    |    |     | .47  |     |    |     |     |     | T.  | .04 | .08 | .02  |     |     |     | T.  | .15  | .28 |     |    | 1.19  |  |
| Irwin           | Monongahela    |              |     |     | .02 |     |   |   |   |    |     |    |    |     | .27  |     |    |     |     |     |     | T.  |     |      |     |     |     | .47 | .46  |     |     |    | 1.22  |  |
| Johnstown       | Conemaugh      |              | .02 |     | T.  |     |   |   |   |    |     |    |    | .07 |      |     |    | T.  |     |     | T.  | .04 | T.  | T.   |     |     |     | .51 | .30  |     |     |    | 0.94  |  |
| Kane (near)     | Allegheny      |              |     |     | .03 | .02 |   |   |   |    |     |    |    |     | .22  |     |    | .11 |     | .38 |     |     | .01 |      | .11 |     |     | .65 | .48  |     |     |    | 2.01  |  |
| Kregar          | Youghiogheny   |              | .01 | .03 | T.  | T.  |   |   |   |    |     |    |    |     | T.   |     |    |     |     |     |     | .08 |     | 1.64 | .06 |     | .12 | .70 |      |     |     |    | 2.64  |  |
| Lake Lynn       | Monongahela    |              | .11 | .02 |     |     |   |   |   |    |     |    |    |     | .10  |     |    |     |     |     |     |     |     |      | .15 |     |     | .67 |      |     |     |    | 1.05  |  |
| Linesville      | Beaver         |              |     |     | .30 | .31 |   |   |   |    |     |    |    |     | .02  |     |    |     | .10 |     |     |     | .04 |      | .07 |     |     | .39 | .27  | .02 | .10 |    | 1.62  |  |
| Lock No. 2      | Ohio           |              | .06 | T.  | .03 |     |   |   |   |    |     |    |    |     | .36  |     |    |     |     |     |     |     | .01 |      |     |     |     | .12 | .22  |     |     |    | 0.80  |  |
| Lock No. 4      | Monongahela    |              | .43 | .04 |     |     |   |   |   |    |     |    |    |     | .06  |     |    |     |     |     |     | T.  |     | 1.33 | .02 |     |     | .08 | .57  |     |     |    | 2.53  |  |
| Lycippus        | Conemaugh      | .05          |     |     | .02 |     |   |   |   |    |     |    |    |     | .05  |     |    |     |     |     |     |     |     |      |     |     |     | .06 |      |     |     |    | 0.83  |  |
| McKeesport      | Monongahela    |              | .10 | T.  |     |     |   |   |   |    |     |    |    |     | .11  |     |    |     |     |     |     |     |     | .20  |     |     |     | .20 | .44  |     |     |    | 1.05  |  |
| Meadville       | Allegheny      |              |     |     | .54 | .32 |   |   |   |    |     |    |    |     | .44  |     |    | .09 |     |     |     | .05 |     | .08  |     |     |     | .34 | .16  |     |     |    | 2.02  |  |
| Mount Lebanon   | Ohio           | T.           | .24 |     | .02 |     |   |   |   |    | T.  |    |    |     | .30  |     |    |     |     |     |     | T.  | T.  | .10  | .04 |     |     | .13 | .28  |     |     |    | 1.11  |  |
| Natrona         | Allegheny      |              |     |     | .04 |     |   |   |   |    |     |    |    |     | .19  |     |    |     |     |     |     |     | .01 |      |     |     |     | .08 | .41  |     |     |    | 0.73  |  |
| New Castle      | Beaver         |              |     | .21 | .36 | .01 |   |   |   |    |     |    |    |     | .02  |     |    |     |     |     |     |     | .18 | .01  | T.  |     | .01 | .17 | 1.04 | .01 | .01 |    | 2.03  |  |
| Newell          | Monongahela    |              | .07 |     | T.  |     |   |   |   |    |     |    |    |     | .01  |     |    |     |     |     |     |     | .01 |      | .01 |     |     | .06 | .52  | T.  |     |    | 0.67  |  |
| Parkers Landing | Allegheny      |              | .44 | .18 | .02 | .30 |   |   |   |    |     |    |    |     | .12  | .04 |    |     |     |     | T.  | T.  |     |      |     |     |     | .88 | 1.48 |     |     |    | 2.66  |  |
| Pennline        | Beaver         |              |     | .40 | .03 |     |   |   |   |    |     |    |    |     | .06  |     |    |     | .02 |     |     |     | .03 |      | .32 |     |     | .38 | .59  |     | .10 |    | 1.93  |  |
| Pittsburgh      | Ohio           |              | .07 |     | T.  |     |   |   |   |    |     |    |    |     | .02  | .17 |    |     |     |     |     | .01 |     |      |     |     | .02 | .09 | .20  |     |     |    | 0.59  |  |
| Punxsutawney    | Allegheny      |              |     |     | T.  |     |   |   |   |    |     |    |    |     | 1.24 |     |    |     |     |     |     |     |     |      |     |     |     | .04 | .46  |     |     |    | 1.74  |  |
| Ridgway         | do             |              | .01 |     | .07 |     |   |   |   |    |     |    |    |     | .28  | .12 |    |     |     |     |     |     | .02 |      | .02 |     |     | .09 | 1.78 |     |     |    | 2.39  |  |
| Saltsburg       | Conemaugh      |              |     | .04 | .02 |     |   |   |   |    |     |    |    |     | .21  |     |    |     |     |     |     | .02 |     | .02  |     | .08 | .02 | .23 | .36  |     |     |    | 0.98  |  |
| Sharon          | Beaver         |              | .20 | .28 |     |     |   |   |   |    |     |    |    |     | .38  |     |    |     |     |     |     | .02 |     | .02  |     | .17 |     | .40 | .80  |     |     |    | 2.25  |  |
| Smethport       | Allegheny      |              |     |     | .10 |     |   |   |   |    |     |    |    |     | .10  |     |    |     | .01 | .40 |     |     |     | .06  |     | .06 |     | .05 | .90  |     |     |    | 1.68  |  |
| Somerset        | Youghiogheny   |              | .85 |     | .06 |     |   |   |   |    |     |    |    |     | .02  | .01 |    |     |     |     |     |     |     |      | .02 |     |     | .19 | .46  |     |     |    | 1.61  |  |
| Springdale      | Allegheny      |              |     |     | .01 | .01 |   |   |   |    |     |    |    |     | .34  |     |    |     |     |     |     | .05 |     | .05  | .01 |     |     | .07 | .35  |     |     |    | 0.89  |  |
| Uniontown       | Monongahela    |              | .06 |     | .02 |     |   |   |   |    |     |    |    |     | .01  |     |    |     |     |     |     | T.  | .01 |      | .09 |     |     | .52 | .53  |     |     |    | 1.24  |  |
| Unity Reservoir | Youghiogheny   |              | .13 |     | T.  |     |   |   |   |    |     |    |    |     | T.   |     |    |     |     |     |     |     |     |      | .07 |     |     | .40 | .38  |     |     |    | 0.98  |  |
| Vandergrift     | Conemaugh      |              |     |     | .01 |     |   |   |   | T. |     |    |    |     | .04  |     |    |     |     |     | .41 | .02 |     |      |     |     |     | .28 | .26  |     |     |    | 1.02  |  |
| Warren          | Allegheny      | .30          | .62 |     | .20 |     |   |   |   |    |     |    |    |     | .02  |     |    | .06 | .06 | .78 |     |     |     |      | .04 |     | .04 | .30 | .54  | .02 |     |    | 2.98  |  |
| Waynesburg      | Monongahela    |              | .36 |     |     |     |   |   |   |    |     |    |    |     | .06  |     |    | .10 |     |     |     |     |     |      | .14 |     |     | .52 | .16  |     |     |    | 1.18  |  |
| Westford        | Beaver         |              |     | .28 |     |     |   |   |   |    |     |    |    |     | .06  |     |    | .10 |     |     |     |     |     | .16  |     |     |     | .34 | .26  |     |     |    | 1.20  |  |
| West Newton     | Youghiogheny   |              | .10 | T.  |     |     |   |   |   |    |     |    |    |     | .16  |     |    |     |     |     |     |     |     |      | .18 |     |     | .08 | .78  |     |     |    | 1.25  |  |
| Lake Drainage.  |                |              |     |     |     |     |   |   |   |    |     |    |    |     |      |     |    |     |     |     |     |     |     |      |     |     |     |     |      |     |     |    |       |  |
| Erie            | Lake Erie      |              |     | .16 | .08 |     |   |   |   |    |     |    |    |     | .20  | .13 |    |     | .36 |     | .05 | .01 |     | .01  | .11 | .46 |     | .06 | .42  | .24 | T.  |    | 2.29  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Bloersville, Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox. † Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                        |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|-------------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total move-<br>ment, in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a m            | 12 noon. | 8 p. m. |                               | Average                     | *Highest | Direction | Date |
| Erie.....         | 190.6                   | 374.3                    | 51                     | 74               | 67       | 74      | 8,805                         | 12.2                        | 36       | sw.       | 4    |
| Harrisburg.....   | 271.9                   | 373.5                    | 73                     | 74               | 48       | 51      | 4,977                         | 6.9                         | 26       | nw.       | 28   |
| Philadelphia..... | 257.9                   | 373.5                    | 69                     | 74               | 47       | 54      | 8,665                         | 12.0                        | 40       | n.        | 5    |
| Pittsburgh.....   | 261.9                   | 374.0                    | 70                     | 76               | 42       | 47      | 6,234                         | 8.7                         | 25       | sw.       | 4    |
| Reading.....      | 243.4                   | 373.5                    | 65                     | 72               | 48       | 54      | 4,397                         | 6.1                         | 21       | nw.       | 28   |
| Scranton.....     | 227.7                   | 374.0                    | 61                     | 77               | 44       | 52      | 4,619                         | 6.4                         | 22       | n.        |      |



Daily Temperatures for September, 1932

| Stations           | 1            | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21    | 22    | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | Mean  |                   |      |
|--------------------|--------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|----|----|----|----|----|----|----|----|-------|-------|-------------------|------|
| Allentown.....     | Maximum..... | 97  | 94 | 86 | 81 | 82 | 79 | 71 | 76 | 79 | 76 | 80 | 83 | 84 | 77 | 80 | 75 | 73 | 73 | 76 | 86    | 86    | 81 | 84 | 72 | 68 | 71 | 68 | 73 | 66 | 61    | ..... | 77.9              |      |
|                    | Minimum..... | 69  | 70 | 69 | 71 | 70 | 68 | 49 | 53 | 55 | 44 | 41 | 44 | 46 | 50 | 54 | 59 | 50 | 45 | 43 | 50    | 55    | 59 | 60 | 49 | 48 | 35 | 46 | 55 | 44 | ..... | 52.8  |                   |      |
| Altoona.....       | Maximum..... | 96  | 85 | 80 | 80 | 83 | 75 | 93 | 76 | 82 | 76 | 78 | 82 | 84 | 77 | 80 | 82 | 72 | 74 | 82 | 86    | 82    | 82 | 72 | 69 | 66 | 70 | 70 | 66 | 63 | 65    | ..... | 77.6              |      |
|                    | Minimum..... | 67  | 65 | 61 | 68 | 60 | 58 | 41 | 38 | 50 | 46 | 48 | 46 | 49 | 54 | 50 | 51 | 45 | 39 | 44 | 55    | 59    | 55 | 57 | 42 | 38 | 33 | 50 | 51 | 41 | 32    | ..... | 49.8              |      |
| Bedford.....       | Maximum..... | 101 | 96 | 90 | 86 | 86 | 79 | 73 | 77 | 84 | 84 | 83 | 86 | 90 | 83 | 85 | 83 | 78 | 81 | 85 | 89    | 87    | 85 | 77 | 72 | 71 | 75 | 75 | 71 | 64 | 67    | ..... | 81.4              |      |
|                    | Minimum..... | 64  | 65 | 61 | 60 | 61 | 55 | 43 | 44 | 53 | 43 | 38 | 46 | 48 | 54 | 55 | 50 | 42 | 41 | 41 | 53    | 60    | 59 | 57 | 42 | 38 | 31 | 52 | 58 | 38 | 31    | ..... | 49.4              |      |
| Bellefonte.....    | Maximum..... | 96  | 87 | 80 | 83 | 82 | 72 | 64 | 77 | 80 | 74 | 77 | 79 | 84 | 77 | 79 | 80 | 72 | 72 | 72 | 78    | 89    | 85 | 85 | 74 | 68 | 65 | 70 | 69 | 67 | 63    | 64    | .....             | 76.4 |
|                    | Minimum..... | 64  | 65 | 62 | 64 | 59 | 49 | 41 | 37 | 52 | 38 | 34 | 37 | 46 | 62 | 58 | 50 | 43 | 33 | 41 | 51    | 59    | 49 | 47 | 37 | 36 | 30 | 51 | 46 | 37 | 30    | ..... | 46.9              |      |
| Brookville.....    | Maximum..... | 96  | 98 | 87 | 91 | 83 | 83 | 71 | 67 | 76 | 81 | 79 | 82 | 85 | 90 | 84 | 85 | 83 | 71 | 73 | ..... | ..... | 42 | 50 | 45 | 30 | 28 | 27 | 54 | 39 | 31    | ..... | 42.9 <sup>b</sup> |      |
|                    | Minimum..... | 60  | 59 | 60 | 68 | 62 | 53 | 40 | 34 | 30 | 44 | 36 | 31 | 35 | 39 | 51 | 47 | 43 | 33 | 30 | ..... | ..... | 89 | 89 | 75 | 74 | 77 | 76 | 73 | 65 | 63    | ..... | 82.0              |      |
| Butler.....        | Maximum..... | 98  | 91 | 91 | 85 | 90 | 88 | 70 | 75 | 84 | 80 | 84 | 88 | 89 | 84 | 85 | 83 | 76 | 88 | 92 | 91    | 88    | 89 | 85 | 74 | 76 | 74 | 69 | 66 | 62 | 66    | ..... | 82.0              |      |
|                    | Minimum..... | 65  | 66 | 70 | 56 | 60 | 54 | 44 | 35 | 48 | 48 | 40 | 36 | 43 | 60 | 53 | 50 | 45 | 40 | 34 | 56    | 56    | 55 | 62 | 37 | 31 | 40 | 57 | 45 | 42 | 31    | ..... | 48.6              |      |
| Carlisle.....      | Maximum..... | 102 | 99 | 87 | 84 | 89 | 81 | 70 | 84 | 85 | 85 | 80 | 83 | 88 | 82 | 83 | 88 | 82 | 76 | 85 | 92    | 84    | 87 | 82 | 75 | 70 | 71 | 70 | 69 | 64 | 64    | ..... | 81.4              |      |
|                    | Minimum..... | 71  | 72 | 68 | 72 | 65 | 61 | 48 | 51 | 63 | 43 | 37 | 40 | 49 | 58 | 60 | 58 | 50 | 44 | 43 | 56    | 61    | 56 | 56 | 43 | 41 | 30 | 56 | 63 | 46 | 31    | ..... | 53.0              |      |
| Catawissa.....     | Maximum..... | 101 | 97 | 87 | 88 | 89 | 79 | 71 | 81 | 82 | 84 | 81 | 86 | 87 | 80 | 86 | 79 | 75 | 77 | 81 | 92    | 86    | 89 | 82 | 75 | 70 | 71 | 73 | 65 | 68 | 67    | ..... | 80.8              |      |
|                    | Minimum..... | 67  | 65 | 64 | 62 | 63 | 58 | 45 | 44 | 44 | 39 | 38 | 39 | 46 | 62 | 57 | 58 | 45 | 39 | 43 | 53    | 56    | 56 | 55 | 42 | 40 | 32 | 54 | 47 | 42 | 31    | ..... | 49.5              |      |
| Chambersburg.....  | Maximum..... | 101 | 97 | 90 | 86 | 90 | 80 | 71 | 77 | 82 | 79 | 82 | 84 | 87 | 85 | 83 | 85 | 76 | 78 | 83 | 90    | 79    | 79 | 83 | 75 | 71 | 67 | 77 | 68 | 62 | 63    | ..... | 53.7              |      |
|                    | Minimum..... | 68  | 72 | 65 | 71 | 63 | 61 | 47 | 50 | 58 | 50 | 42 | 46 | 52 | 55 | 53 | 59 | 49 | 44 | 49 | 56    | 62    | 59 | 57 | 49 | 46 | 36 | 52 | 63 | 42 | 34    | ..... | 50.6              |      |
| Chambersville..... | Maximum..... | 96  | 91 | 90 | 85 | 85 | 78 | 69 | 77 | 84 | 78 | 79 | 87 | 90 | 89 | 85 | 83 | 75 | 74 | 89 | 88    | 87    | 89 | 75 | 71 | 67 | 77 | 68 | 68 | 66 | 71    | ..... | 49.4              |      |
|                    | Minimum..... | 64  | 65 | 63 | 68 | 61 | 54 | 41 | 34 | 46 | 49 | 43 | 47 | 47 | 59 | 54 | 50 | 41 | 34 | 51 | 59    | 58    | 58 | 57 | 35 | 35 | 39 | 54 | 46 | 40 | 29    | ..... | 49.4              |      |
| Claysville.....    | Maximum..... | 101 | 96 | 94 | 90 | 84 | 77 | 72 | 78 | 87 | 84 | 85 | 89 | 91 | 89 | 89 | 87 | 78 | 81 | 94 | 87    | 86    | 90 | 78 | 71 | 67 | 75 | 70 | 70 | 67 | 70    | ..... | 51.8              |      |
|                    | Minimum..... | 66  | 67 | 68 | 68 | 63 | 57 | 41 | 37 | 45 | 52 | 40 | 42 | 50 | 59 | 60 | 60 | 42 | 40 | 57 | 64    | 61    | 59 | 61 | 36 | 34 | 41 | 58 | 55 | 40 | 31    | ..... | 51.1              |      |
| Clearfield.....    | Maximum..... | 100 | 93 | 90 | 82 | 83 | 78 | 69 | 78 | 86 | 80 | 83 | 87 | 91 | 85 | 87 | 86 | 84 | 76 | 88 | 86    | 90    | 91 | 77 | 72 | 71 | 75 | 65 | 67 | 67 | 65    | ..... | 46.9              |      |
|                    | Minimum..... | 64  | 65 | 60 | 71 | 52 | 64 | 40 | 35 | 42 | 38 | 34 | 38 | 44 | 57 | 50 | 46 | 40 | 36 | 40 | 68    | 41    | 52 | 50 | 40 | 35 | 29 | 52 | 54 | 38 | 32    | ..... | 79.2              |      |
| Coatesville.....   | Maximum..... | 96  | 92 | 88 | 86 | 92 | 83 | 70 | 75 | 79 | 75 | 80 | 83 | 84 | 79 | 81 | 75 | 75 | 75 | 79 | 88    | 85    | 84 | 87 | 74 | 69 | 73 | 64 | 74 | 69 | 62    | ..... | 55.0              |      |
|                    | Minimum..... | 70  | 73 | 70 | 72 | 73 | 64 | 50 | 53 | 60 | 46 | 42 | 47 | 48 | 53 | 60 | 64 | 52 | 47 | 43 | 53    | 59    | 58 | 61 | 53 | 47 | 37 | 54 | 61 | 44 | 37    | ..... | 77.3              |      |
| Corry.....         | Maximum..... | 96  | 86 | 89 | 85 | 80 | 80 | 64 | 78 | 85 | 77 | 83 | 89 | 87 | 85 | 83 | 78 | 68 | 64 | 74 | 86    | 82    | 86 | 77 | 68 | 60 | 70 | 65 | 64 | 65 | 64    | ..... | 48.2              |      |
|                    | Minimum..... | 62  | 60 | 64 | 66 | 63 | 64 | 50 | 35 | 50 | 44 | 32 | 39 | 45 | 53 | 57 | 54 | 37 | 32 | 45 | 54    | 55    | 59 | 52 | 38 | 36 | 32 | 54 | 42 | 38 | 35    | ..... | 76.0              |      |
| Coudersport.....   | Maximum..... | 94  | 93 | 86 | 80 | 81 | 79 | 64 | 74 | 77 | 75 | 79 | 81 | 84 | 82 | 80 | 79 | 72 | 68 | 77 | 84    | 85    | 86 | 74 | 69 | 64 | 67 | 65 | 65 | 58 | 58    | ..... | 44.3              |      |
|                    | Minimum..... | 61  | 63 | 57 | 68 | 61 | 48 | 39 | 31 | 46 | 34 | 29 | 30 | 40 | 58 | 52 | 46 | 35 | 32 | 34 | 48    | 57    | 54 | 53 | 37 | 33 | 24 | 50 | 50 | 34 | 24    | ..... | 74.2              |      |
| Emporium.....      | Maximum..... | 92  | 85 | 85 | 82 | 81 | 70 | 62 | 74 | 77 | 74 | 75 | 78 | 82 | 78 | 80 | 75 | 68 | 67 | 75 | 82    | 82    | 84 | 73 | 65 | 62 | 67 | 65 | 65 | 59 | 61    | ..... | 49.0              |      |
|                    | Minimum..... | 67  | 67 | 60 | 69 | 65 | 53 | 45 | 37 | 51 | 42 | 34 | 35 | 48 | 60 | 53 | 52 | 42 | 40 | 40 | 52    | 61    | 57 | 55 | 42 | 38 | 30 | 54 | 48 | 40 | 33    | ..... | 72.6              |      |
| Erie.....          | Maximum..... | 71  | 68 | 72 | 69 | 77 | 70 | 65 | 71 | 74 | 70 | 70 | 78 | 86 | 78 | 81 | 71 | 65 | 64 | 86 | 80    | 73    | 74 | 68 | 63 | 60 | 74 | 69 | 64 | 58 | 64    | ..... | 58.2              |      |
|                    | Minimum..... | 65  | 64 | 64 | 67 | 63 | 52 | 44 | 37 | 39 | 46 | 38 | 40 | 42 | 47 | 53 | 52 | 44 | 36 | 40 | 54    | 58    | 56 | 52 | 42 | 39 | 32 | 36 | 52 | 42 | 34    | ..... | 47.7              |      |
| Franklin.....      | Maximum..... | 100 | 98 | 90 | 85 | 85 | 72 | 68 | 76 | 85 | 82 | 89 | 90 | 91 | 86 | 85 | 77 | 71 | 80 | 92 | 86    | 92    | 96 | 75 | 69 | 72 | 77 | 68 | 68 | 62 | 72    | ..... | 72.4              |      |
|                    | Minimum..... | 65  | 64 | 64 | 67 | 63 | 52 | 44 | 37 | 39 | 46 | 38 | 40 | 42 | 47 | 53 | 52 | 44 | 36 | 40 | 54    | 58    | 56 | 52 | 42 | 39 | 32 | 36 | 52 | 42 | 34    | ..... | 53.4              |      |
| Freeland.....      | Maximum..... | 91  | 84 | 81 | 75 | 82 | 75 | 66 | 67 | 72 | 70 | 71 | 80 | 79 | 71 | 76 | 68 | 68 | 68 | 71 | 85    | 81    | 82 | 74 | 68 | 60 | 68 | 57 | 67 | 59 | 56    | ..... | 80.3              |      |
|                    | Minimum..... | 71  | 68 | 65 | 68 | 65 | 61 | 45 | 44 | 53 | 45 | 48 | 54 | 57 | 54 | 58 | 57 | 45 | 45 | 48 | 56    | 66    | 66 | 62 | 47 | 43 | 43 | 49 | 54 | 43 | 32    | ..... | 55.3              |      |
| Gettysburg.....    | Maximum..... | 97  | 95 | 85 | 85 | 88 | 80 | 74 | 77 | 82 | 79 | 80 | 82 | 85 | 83 | 82 | 84 | 81 | 77 | 83 | 88    | 80    | 83 | 84 | 75 | 71 | 73 | 67 | 72 | 69 | 67    | ..... | 81.2              |      |
|                    | Minimum..... | 70  | 71 | 63 | 70 | 68 | 62 | 50 | 51 | 59 | 50 | 45 | 47 | 52 | 57 | 62 | 62 | 61 | 47 | 48 | 50    | 58    | 62 | 59 | 60 | 48 | 46 | 38 | 55 | 62 | 46    | 36    | .....             | 55.3 |
| Greensburg.....    | Maximum..... | 98  | 90 | 94 | 90 | 85 | 81 | 68 | 78 | 82 | 80 | 84 | 87 | 85 | 81 | 72 | 77 | 94 | 85 | 87 | 89    | 74    | 70 | 69 | 80 | 73 | 66 | 65 | 68 | 65 | 68    | ..... | 77.3              |      |
|                    | Minimum..... | 67  | 67 | 69 | 62 | 64 | 55 | 45 | 38 | 48 | 53 | 45 | 48 | 53 | 49 | 79 | 67 | 73 | 89 | 87 | 77    | 80    | 78 | 68 | 67 | 70 | 70 | 66 | 59 | 61 | ..... | 54.0  |                   |      |
| Grove City.....    | Maximum..... | 95  | 93 | 85 | 85 | 79 | 76 | 64 | 75 | 83 | 79 | 76 | 85 | 86 | 80 | 84 | 78 | 67 | 73 | 89 | 87    | 77    | 80 | 78 | 68 | 67 | 70 | 70 | 66 | 59 | 61    | ..... | 79.7              |      |
|                    | Minimum..... | 69  | 68 | 67 | 67 | 63 | 57 | 47 | 43 | 52 | 53 | 40 | 81 | 82 | 82 | 78 | 75 | 74 | 78 | 89 | 86    | 83    | 83 | 80 | 78 | 73 | 71 | 68 | 64 | 62 | ..... | 49.7  |                   |      |
| Hamburg.....       | Maximum..... | 96  | 93 | 92 | 87 | 86 | 76 | 77 | 75 | 82 | 80 | 81 | 82 | 82 | 82 | 78 | 75 | 74 | 78 | 89 | 86    | 83    | 83 | 80 | 78 | 73 | 71 | 68 | 64 | 62 | ..... | 78.3  |                   |      |
|                    | Minimum..... | 69  | 70 | 70 | 65 | 64 | 63 | 50 | 46 | 43 | 39 | 41 | 43 | 44 | 48 | 40 | 49 | 48 | 42 | 43 | 52    | 58    | 56 | 42 | 40 | 39 | 33 | 52 | 48 | 40 | 34    | ..... | 49.7              |      |
| Harrisburg.....    | Maximum..... | 98  | 93 | 84 | 84 | 85 | 76 | 67 | 78 | 81 | 77 | 80 | 81 | 82 | 80 | 79 | 80 | 74 | 76 | 81 | 86    | 83    | 83 | 82 | 73 | 68 | 70 | 66 | 71 | 66 | 66    | ..... | 78.3              |      |
|                    | Minimum..... | 74  | 75 | 71 | 71 | 68 | 66 | 58 | 54 | 65 | 52 | 47 | 49 | 57 | 59 | 63 | 58 | 52 | 52 | 60 | 65    | 61    | 61 | 56 | 48 | 43 | 55 | 57 | 50 | 41 | ..... | 58.3  |                   |      |
| Hawley.....        | Maximum..... | 97  | 87 | 82 | 80 | 87 | 81 | 70 | 70 | 78 | 73 | 76 | 84 | 83 | 75 | 79 | 72 | 69 | 69 | 68 | 81    | 85    | 82 | 79 | 70 | 66 | 68 | 65 | 68 | 65 | 57    |       |                   |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.  
CLIMATOLOGICAL DATA.

32 PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.  
Vol. XXXVII. OCTOBER, 1932. No. 10.

GENERAL SUMMARY.

Temperatures in October were seasonable, and the extremes for the month were moderate. There was a slight excess in the mean temperature, and yet the maximum for the month was not as high as usual. Frosts did little damage as crops matured rapidly in September and were mostly out of danger before freezing occurred. The rainfall excess in October was just enough to balance the deficiency of September. The first heavy rains occurred near the end of the first week. They averaged about four inches in the central and eastern portions of the State, and, though generally moderate, they were the heaviest for the month at most places in the western part of the State. Ponds, reservoirs, and small streams were quickly filled to overflowing, and good stages were re-established in the larger rivers. The top soil was drenched, and the summer drought condition was ended. However, the run-off was fairly rapid in such heavy rains, and on well drained lands the moisture did not penetrate below a depth of ten or twelve inches. In flats and valley lands the water continued to seep down for several days, and generally put the deep soil in good condition. A second period of fairly heavy rains occurred in the central and eastern counties during the middle of the third week. These rains came at a slower rate and generally extended over a period of about 48 hours. The percentage of run-off was less than for the first rains, and the moisture penetrated to a depth of two feet or more. In the Ohio drainage area the rainfall averaged near the October normal with little of the excessive order. There were more rainy days with light to moderate rainfall, and the soil retained nearly as much moisture as it did in the Susquehanna and Delaware basins. Grass started to grow after the first rains, and near the end of the month it was furnishing some feed. The seeding of winter grains was in progress when the first rains occurred, and was finished thereafter as rapidly as the condition of the fields would permit. Corn husking was well advanced at the close of the month, being from two to three weeks ahead of usual conditions on account of its early maturity. Strong winds on the night of the 26th did some damage to wires, especially in the Susquehanna Valley from Williamsport to Lock Haven. At the end of the month the early sown winter grains were generally looking good, while late sown fields were rather short, but otherwise in a healthy condition.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 53.8°, an excess of 1.4° as compared with the October normal. The highest monthly mean was 60.3°, at Marcus Hook, and the lowest 44.2°, at Mt. Pocono. Extremes

for the month ranged from a maximum of 86°, at Hyndman on the 3d, to a minimum of 20°, at Gouldsboro on the 14th, and at Kylertown and Somerset on the 31st. The greatest daily range in temperature was 47°, occurring at Clearfield on the 2d, Hyndman and Greenville on the 8th, Wellsboro on the 9th, and Franklin on the 15th.

PRECIPITATION.

The average precipitation for the State, as determined by the reports of 146 well-distributed stations, was 5.31 inches, which is 2.05 inches more than the monthly normal. The greatest monthly amount was 11.90 inches, at Newport, while the least, 1.78 inches, was reported from Sharon. The greatest amount reported in 24 consecutive hours was 5.82 inches, at Gordon on the 5-6th. The average snowfall for the State was a trace which is 0.3 inch less than the normal for October. The greatest amount of snow reported was 1.0 inch, which fell on the 13th at Kylertown. Several places reported traces of snow on the 12th and 13th.

COMPARATIVE DATA FOR OCTOBER

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 46.3        | 74      | 19     | 4.02          | 9.18     | 2.04  | 9           | 6             | 16     | 16                     |
| 1889.....                | 47.3        | 83      | 13     | 3.85          | 8.61     | 1.88  | 8           | 9             | 14     | 10                     |
| 1890.....                | 50.9        | 81      | 21     | 5.87          | 8.41     | 4.03  | 6           | 8             | 17     | 15                     |
| 1891.....                | 50.6        | 91      | 15     | 3.06          | 4.46     | 0.84  | 11          | 9             | 11     | 8                      |
| 1892.....                | 50.8        | 83      | 16     | 0.72          | 2.93     | 0.00  | 13          | 11            | 7      | 6                      |
| 1893.....                | 53.0        | 91      | 17     | 3.26          | 6.58     | 1.18  | 14          | 8             | 9      | 8                      |
| 1894.....                | 53.6        | 88      | 24     | 4.26          | 7.66     | 0.65  | 12          | 8             | 11     | 9                      |
| 1895.....                | 47.3        | 76      | 17     | 1.99          | 4.63     | 0.45  | 17          | 8             | 6      | 5                      |
| 1896.....                | 48.9        | 86      | 18     | 3.19          | 5.70     | 0.94  | 11          | 8             | 12     | 9                      |
| 1897.....                | 54.2        | 95      | 16     | 1.32          | 5.93     | T.    | 14          | 8             | 9      | 5                      |
| 1898.....                | 53.8        | 92      | 20     | 5.20          | 8.62     | 2.36  | 11          | 7             | 13     | 12                     |
| 1899.....                | 54.6        | 94      | 15     | 1.55          | 3.81     | 0.53  | 13          | 8             | 10     | 6                      |
| 1900.....                | 58.6        | 95      | 19     | 2.74          | 5.10     | 0.80  | 11          | 9             | 11     | 8                      |
| 1901.....                | 52.2        | 83      | 20     | 1.23          | 3.35     | 0.23  | 16          | 10            | 5      | 5                      |
| 1902.....                | 53.1        | 89      | 19     | 4.64          | 8.12     | 1.65  | 12          | 9             | 10     | 9                      |
| 1903.....                | 53.4        | 91      | 20     | 4.64          | 10.53    | 2.07  | 12          | 8             | 11     | 9                      |
| 1904.....                | 50.6        | 91      | 12     | 2.87          | 7.11     | 1.26  | 15          | 8             | 8      | 7                      |
| 1905.....                | 53.2        | 90      | 16     | 4.23          | 7.06     | 2.18  | 14          | 7             | 10     | 9                      |
| 1906.....                | 52.0        | 87      | 14     | 4.46          | 8.39     | 1.97  | 7           | 7             | 17     | 14                     |
| 1907.....                | 48.2        | 87      | 13     | 3.16          | 5.64     | 1.01  | 16          | 8             | 7      | 7                      |
| 1908.....                | 54.6        | 93      | 19     | 1.95          | 5.48     | 0.08  | 16          | 7             | 8      | 6                      |
| 1909.....                | 48.4        | 87      | 15     | 2.27          | 4.60     | 0.70  | 13          | 7             | 11     | 7                      |
| 1910.....                | 55.6        | 91      | 14     | 1.91          | 5.23     | 0.62  | 16          | 8             | 7      | 7                      |
| 1911.....                | 52.3        | 83      | 18     | 4.83          | 9.23     | 2.59  | 11          | 7             | 13     | 11                     |
| 1912.....                | 54.2        | 90      | 23     | 2.74          | 5.27     | 0.90  | 15          | 7             | 9      | 6                      |
| 1913.....                | 54.9        | 88      | 16     | 5.44          | 9.62     | 3.15  | 10          | 6             | 15     | 13                     |
| 1914.....                | 56.4        | 91      | 11     | 2.35          | 4.37     | 0.89  | 11          | 9             | 11     | 8                      |
| 1915.....                | 54.2        | 85      | 17     | 2.65          | 5.33     | 1.00  | 15          | 7             | 9      | 9                      |
| 1916.....                | 52.1        | 92      | 16     | 2.25          | 4.45     | 0.76  | 18          | 7             | 6      | 6                      |
| 1917.....                | 47.2        | 84      | 12     | 6.38          | 9.80     | 3.33  | 10          | 10            | 11     | 13                     |
| 1918.....                | 55.5        | 85      | 19     | 3.17          | 2.20     | 0.24  | 15          | 8             | 8      | 10                     |
| 1919.....                | 57.5        | 92      | 21     | 4.77          | 8.04     | 2.28  | 9           | 8             | 14     | 17                     |
| 1920.....                | 57.5        | 88      | 22     | 1.67          | 4.67     | 0.50  | 19          | 7             | 5      | 5                      |
| 1921.....                | 52.6        | 84      | 18     | 2.16          | 6.55     | 0.40  | 17          | 7             | 7      | 7                      |
| 1922.....                | 54.8        | 94      | 12     | 2.51          | 5.60     | 0.65  | 18          | 6             | 7      | 7                      |
| 1923.....                | 51.0        | 87      | 12     | 2.38          | 6.01     | 0.90  | 15          | 8             | 8      | 8                      |
| 1924.....                | 52.9        | 87      | 14     | 0.28          | 2.30     | 0.00  | 21          | 7             | 3      | 2                      |
| 1925.....                | 46.1        | 83      | 9      | 4.83          | 8.90     | 2.02  | 6           | 8             | 17     | 15                     |
| 1926.....                | 51.9        | 90      | 16     | 4.51          | 7.98     | 2.56  | 10          | 9             | 12     | 14                     |
| 1927.....                | 55.6        | 99      | 21     | 6.40          | 11.91    | 1.58  | 17          | 5             | 9      | 9                      |
| 1928.....                | 55.1        | 91      | 15     | 1.78          | 5.24     | 0.43  | 14          | 8             | 9      | 8                      |
| 1929.....                | 50.6        | 85      | 14     | 5.59          | 10.40    | 1.65  | 12          | 8             | 11     | 9                      |
| 1930.....                | 50.8        | 93      | 9      | 0.99          | 3.33     | 0.11  | 15          | 7             | 9      | 6                      |
| 1931.....                | 55.7        | 93      | 20     | 1.83          | 4.30     | 0.20  | 15          | 8             | 8      | 9                      |
| 1932.....                | 53.8        | 86      | 20     | 5.31          | 11.90    | 1.78  | 10          | 7             | 14     | 11                     |
| Normal and Extremes..... | 52.4        | 99      | 9      | 3.26          | 11.91    | 0.00  | 13          | 8             | 10     | 9                      |



## Climatological Data for October, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                |                 |                 | Precipitation, in inches |       |                           |                      | No. of days               |                                 |       |            | Prevailing direction of wind | Observers     |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|----------------|-----------------|-----------------|--------------------------|-------|---------------------------|----------------------|---------------------------|---------------------------------|-------|------------|------------------------------|---------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date           | Lowest          | Date            | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation of 1/2 in or more | Clear | Pt. cloudy |                              |               | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |                |                 |                 |                          |       |                           |                      |                           |                                 |       |            |                              |               |                             |
| Allentown          | Lehigh       | 254             | 20                      | 54.2                         |                           | 80              | 3              | 30              | 14              | 35                       | 5.40  | +2.06                     | 2.60                 | 0                         | 12                              | 16    | 6          | 9                            | ne.           | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 51.3                         | -0.8                      | 78              | 3              | 26              | 31              | 39                       | 4.81  | +2.14                     | 1.39                 | 0.6                       | 12                              | 14    | 5          | 12                           | w.            | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | 10                      | 56.6 <sup>a</sup>            | +1.4                      | 79 <sup>a</sup> | 3              | 33 <sup>a</sup> | 31              | 29 <sup>a</sup>          | 6.89  | +3.97                     | 2.35                 | 0                         | 9                               | ..... | .....      | .....                        | .....         | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 52.2                         |                           | 82              | 3              | 28              | 14 <sup>†</sup> | 36                       | 10.08 | .....                     | 3.88                 | 0                         | 11                              | 18    | 1          | 12                           | nw.           | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | 24                      | 51.3                         | -1.7                      | 83              | 3              | 25              | 29              | 43                       | 4.91  | .....                     | 1.47                 | 0                         | 11                              | 10    | 4          | 17                           | sw.           | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 51.3                         | -1.7                      | 80              | 3              | 25              | 31              | 38                       | 5.42  | +2.39                     | 2.33                 | T                         | 11                              | 10    | 4          | 17                           | sw.           | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 56.8                         | +1.1                      | 81              | 3              | 33              | 14              | 32                       | 5.92  | +2.71                     | 3.24                 | 0                         | 11                              | 13    | 2          | 16                           | w.            | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 53.7                         | +0.9                      | 82              | 3              | 27              | 31              | 38                       | 10.30 | +7.07                     | 3.78                 | 0                         | 13                              | 13    | 7          | 11                           | nw.           | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 54.2                         | +0.8                      | 84              | 3              | 29              | 31              | 36                       | 6.14  | +3.04                     | 2.50                 | 0                         | 11                              | 11    | 4          | 16                           | .....         | W. L. Gearhart.             |
| Center Hill        | Center       | 1,272           | 36                      | 50.0                         | -1.9                      | 73              | 3              | 22              | 31              | 42                       | 6.13  | +3.21                     | 1.98                 | 0                         | 13                              | 13    | 4          | 14                           | .....         | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 54.6                         | +1.7                      | 84              | 3              | 28              | 14              | 43                       | 6.39  | +3.19                     | 1.80                 | 0                         | 12                              | 4     | 14         | 13                           | s.            | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | 53.1                         | +0.5                      | 83              | 3              | 23              | 31              | 47                       | 3.76  | +0.52                     | 1.30                 | 0                         | 10                              | 8     | 11         | 12                           | w.            | E. W. Hess.                 |
| Coatesville        | Chester      | 980             | 45                      | 55.3                         | +1.2                      | 81              | 3              | 31              | 31              | 34                       | 5.88  | +2.47                     | 2.00                 | 0                         | 11                              | 13    | 3          | 15                           | nw.           | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 52.8                         | +0.1                      | 78              | 3              | 26              | 31              | 34                       | 7.25  | +3.97                     | 3.68                 | 0                         | 11                              | 13    | 4          | 14                           | w.            | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 52.0                         | +2.0                      | 77              | 3              | 30              | 29 <sup>†</sup> | 36                       | 3.77  | +0.52                     | 1.10                 | T                         | 11                              | 8     | 7          | 16                           | e.            | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 55.6                         | +1.0                      | 81              | 2 <sup>†</sup> | 30              | 14 <sup>†</sup> | 36                       | 7.40  | +4.32                     | 3.78                 | 0                         | 9                               | 13    | 2          | 16                           | ne.           | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 51.4                         | +4.4                      | 75              | 3              | 30              | 13 <sup>†</sup> | 27                       | 8.99  | +5.12                     | 4.10                 | T                         | 13                              | 9     | 6          | 16                           | nw.           | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 57.1                         | +2.1                      | 82              | 3              | 30              | 31              | 38                       | 5.18  | +2.04                     | 1.43                 | 0                         | 11                              | 11    | 9          | 11                           | w.            | Prof. N. W. Swayne.         |
| Gettysburg         | Adams        | 553             | 59                      | 55.4                         | +2.4                      | 81              | 3              | 30              | 14 <sup>†</sup> | 34                       | 8.82  | +5.61                     | 2.90                 | 0                         | 13                              | 13    | 6          | 12                           | w.            | Dr. Henry Stewart.          |
| Gordon             | Schuylkill   | 840             | 28                      | 52.8                         | +2.1                      | 78              | 3              | 25              | 31              | 40                       | 10.34 | +6.15                     | 5.82                 | 0                         | 11                              | 9     | 4          | 18                           | w.            | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 47.0                         | .....                     | 70              | 2              | 20              | 14              | 38                       | 8.54  | +4.71                     | 2.85                 | 0                         | 11                              | 9     | 7          | 15                           | w.            | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 39                      | 53.2                         | -0.2                      | 78              | 4              | 28              | 14              | 39                       | 6.67  | +2.88                     | 3.40                 | 0                         | 11                              | 13    | 8          | 10                           | w.            | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 56.9                         | +1.5                      | 82              | 3              | 31              | 14 <sup>†</sup> | 33                       | 6.58  | +3.71                     | 2.49                 | 0                         | 12                              | 13    | 4          | 14                           | s.            | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 55.2                         | +0.4                      | 81              | 3              | 35              | 31              | 27                       | 8.96  | +6.03                     | 3.06                 | 0                         | 13                              | 6     | 9          | 16                           | w.            | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 51.3                         | +1.7                      | 78              | 3              | 24              | 14              | 44                       | 7.10  | +3.82                     | 3.86                 | T                         | 11                              | 12    | 9          | 10                           | w.            | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 59.2                         | +3.0                      | 83              | 3              | 37              | 31              | 29                       | 6.36  | +3.88                     | 2.38                 | 0                         | 12                              | 13    | 6          | 12                           | .....         | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 53.4                         | +0.7                      | 84              | 3              | 25              | 31              | 44                       | 5.08  | +2.09                     | 1.40                 | T                         | 9                               | 7     | 6          | 18                           | nw.           | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 54.2                         | +1.0                      | 86              | 3              | 27              | 31              | 47                       | 4.83  | +1.61                     | 1.64                 | 0                         | 12                              | 6     | 6          | 19                           | .....         | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 52.0                         | -1.8                      | 74              | 3              | 24              | 31              | 35                       | 8.39  | +5.28                     | 4.34                 | 0                         | 8                               | 15    | 5          | 11                           | nw.           | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 53.6 <sup>d</sup>            | .....                     | 81 <sup>d</sup> | 3              | 24 <sup>d</sup> | 14              | 42 <sup>d</sup>          | 5.51  | +2.73                     | 2.80                 | 0                         | 8                               | 11    | 7          | 13                           | .....         | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 54.5                         | +0.8                      | 81              | 3              | 29              | 14 <sup>†</sup> | 34                       | 7.90  | +4.42                     | 2.76                 | 0                         | 13                              | 12    | 9          | 10                           | e.            | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 56                      | 55.0                         | +3.2                      | 83              | 3              | 30              | 31              | 36                       | 7.42  | +4.17                     | 2.80                 | 0                         | 13                              | 10    | 7          | 14                           | s.            | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 55.6                         | +2.1                      | 82              | 3              | 30              | 31              | 40                       | 5.69  | +2.55                     | 2.46                 | T                         | 13                              | 4     | 12         | 15                           | sw.           | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 53.6                         | +0.3                      | 80              | 1              | 23              | 31              | 43                       | 6.52  | +2.83                     | 2.34                 | 0                         | 12                              | 12    | 5          | 14                           | se.           | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 60.3 <sup>b</sup>            | .....                     | 84 <sup>b</sup> | 2              | 37 <sup>b</sup> | 31              | 32 <sup>b</sup>          | 5.63  | .....                     | 2.05                 | 0                         | 5                               | 17    | 9          | 5                            | ne.           | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 52.0                         | -0.4                      | 83              | 3              | 28              | 13              | 43                       | 7.71  | +3.92                     | 3.81                 | 0                         | 12                              | 11    | 5          | 15                           | w.            | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 28                      | 54.6                         | +1.7                      | 85              | 3              | 26              | 31              | 42                       | 6.48  | +3.28                     | 2.18                 | 0                         | 11                              | 7     | 7          | 17                           | w.            | W. H. Manbeck.              |
| Montrose           | Susquehanna  | 1,720           | 28                      | 51.0                         | +2.0                      | 75              | 2 <sup>†</sup> | 25              | 13              | 32                       | 5.90  | +2.33                     | 2.25                 | T                         | 7                               | 9     | 9          | 13                           | s.            | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 44.2                         | -4.2                      | 68              | 3              | 22              | 30              | 29                       | 8.44  | +3.58                     | 4.50                 | 0                         | 11                              | 14    | 4          | 13                           | nw.           | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 51.0                         | +0.7                      | 78              | 3              | 23              | 14              | 37                       | 7.51  | +3.98                     | 3.23                 | 0                         | 8                               | 8     | 9          | 14                           | nw.           | H. O. Hacker.               |
| Neshaminy Falls II | Bucks        | 60              | 43                      | 56.0                         | +2.1                      | 82              | 3              | 31              | 30              | 37                       | 5.99  | +2.83                     | 2.05                 | 0                         | 12                              | 15    | 8          | 8                            | w.            | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 398             | 14                      | 53.5                         | .....                     | 79              | 3              | 27              | 14              | 35                       | 6.92  | +3.78                     | 2.93                 | 0                         | 12                              | 5     | 10         | 16                           | ne.           | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 59.6                         | +1.8                      | 81              | 3              | 41              | 14              | 25                       | 4.30  | +1.49                     | 2.33                 | 0                         | 9                               | 10    | 8          | 13                           | w.            | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 8                       | 58.8                         | .....                     | 82              | 3              | 38              | 31              | 29                       | 4.76  | .....                     | 1.68                 | 0                         | 10                              | 5     | 12         | 14                           | .....         | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 57.8                         | +0.7                      | 78              | 3              | 39              | 14              | 26                       | 4.38  | +1.74                     | 2.20                 | 0                         | 9                               | ..... | .....      | .....                        | .....         | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 22                      | 58.5                         | +3.8                      | 80              | 2 <sup>†</sup> | 32              | 14 <sup>†</sup> | 40                       | 6.17  | +3.00                     | 2.90                 | 0                         | 10                              | 15    | 11         | 5                            | s.            | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 53.8                         | +1.6                      | 79              | 3              | 26              | 14              | 37                       | 7.44  | +4.10                     | 3.86                 | 0                         | 10                              | 12    | 7          | 12                           | nw.           | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 55.8                         | +1.1                      | 80              | 3              | 34              | 31              | 29                       | 5.64  | +2.52                     | 2.56                 | 0                         | 10                              | 5     | 11         | 15                           | se.           | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 54.0                         | +2.2                      | 80              | 3              | 34              | 14              | 34                       | 5.10  | +2.07                     | 3.38                 | T                         | 10                              | 5     | 13         | 13                           | sw.           | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 54.4                         | +1.6                      | 82              | 3              | 28              | 31              | 41                       | 7.70  | +4.17                     | 3.10                 | 0                         | 11                              | 10    | 9          | 12                           | w.            | Dr. George E. Fisher.       |
| Shawmont II        | Philadelphia | 51              | 36                      | 57.0                         | +0.9                      | 79              | 3              | 32              | 31              | 30                       | 6.58  | +3.42                     | 2.00                 | 0                         | 12                              | 8     | 9          | 14                           | s.            | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 52.4                         | +1.3                      | 80              | 3              | 27              | 31              | 32                       | 4.88  | +1.97                     | 1.43                 | T                         | 9                               | 7     | 8          | 16                           | w.            | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 18                      | 52.8                         | +0.6                      | 83              | 3              | 24              | 14              | 42                       | 9.05  | +5.34                     | 5.00                 | 0                         | 11                              | 6     | 12         | 13                           | w.            | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 53.4                         | +2.6                      | 80              | 3              | 26              | 14              | 38                       | 6.53  | +3.60                     | 2.65                 | 0                         | 12                              | 3     | 12         | 16                           | w.            | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 50.6                         | +1.7                      | 79              | 3              | 24              | 13 <sup>†</sup> | 47                       | 4.50  | +1.42                     | 1.61                 | 0                         | 7                               | 11    | 7          | 13                           | w.            | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 55.7 <sup>a</sup>            | +1.2                      | 78 <sup>a</sup> | 3              | 35 <sup>a</sup> | 14 <sup>†</sup> | 27 <sup>a</sup>          | 6.60  | +2.96                     | 2.95                 | 0                         | 8                               | 14    | 6          | 20                           | w.            | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 53.8                         | +1.1                      | 81              | 3              | 29              | 13              | 38                       | 5.71  | +2.31                     | 2.56                 | 0                         | 11                              | 6     | 5          | 20                           | w.            | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 55.1                         | +1.1                      | 83              | 3              | 28              | 31              | 36                       | 8.00  | +4.99                     | 3.70                 | 0                         | 10                              | 13    | 7          | 11                           | w.            | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |                |                 |                 |                          |       |                           |                      |                           |                                 |       |            |                              |               |                             |
| Beaver Dam II      | Beaver       | 700             | 40                      | 55.2                         | 0.0                       | 78              | 3              | 30              | 30              | 36                       | 2.66  | +0.16                     | 0.78                 | 0                         | 12                              | 4     | 10         | 17                           | sw.           | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | 50.6                         | +1.4                      | 76              | 3              | 28              | 14              | 40                       | 3.53  | -0.01                     | 0.85                 | T                         | 16                              | 6     | 7          | 18                           | sw.           | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 50.9 <sup>b</sup>            | +2.2                      | 79 <sup>a</sup> | 4              | 25 <sup>d</sup> | 31              | 46 <sup>d</sup>          | 3.63  | +0.65                     | 0.90                 | 0                         | 15                              | 10    | 11         | .....                        | John Fawcett. |                             |
| Butler             | Butler       | 1,077           | 19                      | 53.3                         | .....                     | 80              | 4              | 24              |                 |                          |       |                           |                      |                           |                                 |       |            |                              |               |                             |



## Daily Precipitation for October, 1932

| Stations           | Drainage Basin | Day of month |     |     |      |      |      |      |   |   |     |     |     |     |      |    |       |      |      |     |     |    |     |     |     |     |      |     |     |     |     |      | Total |      |
|--------------------|----------------|--------------|-----|-----|------|------|------|------|---|---|-----|-----|-----|-----|------|----|-------|------|------|-----|-----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-------|------|
|                    |                | 1            | 2   | 3   | 4    | 5    | 6    | 7    | 8 | 9 | 10  | 11  | 12  | 13  | 14   | 15 | 16    | 17   | 18   | 19  | 20  | 21 | 22  | 23  | 24  | 25  | 26   | 27  | 28  | 29  | 30  | 31   |       |      |
| Atlantic Drainage. |                |              |     |     |      |      |      |      |   |   |     |     |     |     |      |    |       |      |      |     |     |    |     |     |     |     |      |     |     |     |     |      |       |      |
| Allentown\|\|\| | Lehigh.        | T.           |     |     |      | .11  | 2.60 | .49  |   |   |     | .01 |     | T.  | .02  | T. | .01   | .05  | 1.35 | .08 | .01 |    |     |     |     | .03 |      |     | .64 |     |     |      |       | 5.40 |
| Altoona            | Juniata.       |              |     |     |      | .92  | 1.39 |      |   |   |     | .05 |     | .21 |      |    | .83   | .40  | .06  | T.  |     |    |     | .18 |     | .04 | .08  | .50 | .15 | T.  |     |      | 4.81  |      |
| Ansonia\|\|\| | W. Br. Susq.   | T.           | .06 |     |      | .22  | 2.45 | .43  |   |   |     | .03 | .03 |     |      |    | .09   | .67  | .08  | T.  |     |    |     | .18 | .16 |     | T.   | .73 |     | T.  | .07 | T.   | 5.02  |      |
| Ardmore.           | Lower Del.     |              |     | .02 |      | .49  | 2.35 |      |   |   |     |     |     | .12 |      |    | .60   | 1.27 | 1.30 | .04 |     |    |     | .18 |     |     | .64  |     |     |     |     |      | 6.89  |      |
| Arendtsville\|\|\| | Lower Susq.    |              |     |     |      | .83  | 3.88 |      |   |   |     |     |     | .24 |      |    | T.    | 1.16 | .79  | .10 | .04 |    |     | .08 | .07 | .20 | .49  |     |     |     |     |      | 10.08 |      |
| Baker's Summit.    | Juniata        |              | .03 | .67 | 1.06 |      |      |      |   |   |     |     |     | .24 |      |    | T.    | 1.16 | .79  | .10 | .04 |    |     | .12 |     |     | .60  |     |     |     |     |      | 4.81  |      |
| Bedford            | Juniata        |              |     | .05 | .73  | .95  |      |      |   |   |     | T.  | T.  | .25 |      |    | .09   | .47  | .30  | .40 | .04 |    |     | .18 | T.  |     | T.   | .45 |     |     |     |      | 4.91  |      |
| Bellefonte***      | W. Br. Susq.   | T.           | T.  |     | .04  | 1.79 | 1.06 |      |   |   | T.  | T.  | T.  | .07 |      |    | T.    | .87  | .79  | .01 | .01 | T. |     | .21 |     | T.  | .56  | T.  | T.  | T.  | T.  | .01  | 5.42  |      |
| Bethlehem          | Lehigh.        |              |     |     | T.   | .34  | .24  |      |   |   |     | T.  | T.  | .01 |      |    | .03   | .64  | .96  | .02 | .04 |    |     | .01 | .02 |     | T.   | .61 |     |     |     |      | 5.92  |      |
| Bloersville\|\| | Lower Susq.    |              |     |     | T.   | 2.00 | 2.04 |      |   |   |     |     |     | .22 |      |    | .10   | 1.95 | 2.00 | .25 |     |    |     |     | .12 | .14 | .52  |     |     |     |     |      | 9.34  |      |
| Buffalo Mills.     | Juniata        |              |     |     |      |      |      |      |   |   |     |     |     |     |      |    |       |      |      |     |     |    |     |     |     |     |      |     |     |     |     |      |       |      |
| Carlisle           | Lower Susq.    | T.           | T.  | T.  | 1.15 | 3.78 |      |      |   |   |     |     |     | .25 |      |    | .04   | 1.80 | 2.33 | .13 | .02 |    |     | .04 | .10 | .05 | .05  | .56 |     | T.  |     |      | 10.30 |      |
| Catawissa\|\| | N. Br. Susq.   | .06          |     |     | .05  | 2.50 | 1.71 |      |   |   |     |     |     | .05 |      |    | T.    | .70  | .15  | .06 |     |    |     | .26 |     |     | .42  | .18 |     |     |     |      | 6.14  |      |
| Center Hall.       | Susquehanna    | .01          |     |     | .02  | 1.12 | 1.98 |      |   |   |     |     |     | .20 |      |    | .69   | 1.25 | .06  | .02 |     |    | .14 | .19 | .01 | .08 | .42  |     |     |     |     |      | 6.13  |      |
| Chambersburg       | Potomac.       |              |     |     | .02  | 1.19 | 1.79 |      |   |   |     |     |     | .14 |      |    | .03   | 1.80 | .58  | .06 | .01 |    |     | .08 |     | .04 | T.   | .65 |     | T.  |     |      | 6.39  |      |
| Clearfield         | W. Br. Susq.   |              |     |     | .10  | .60  | 1.30 |      |   |   |     | T.  | .15 | T.  |      |    | .65   | .25  | T.   |     | .05 |    |     | .16 | .40 | .10 | T.   |     |     |     |     |      | 8.76  |      |
| Coatesville        | Lower Del.     |              |     |     | .01  | .29  | 2.00 |      |   |   |     |     |     | .05 |      |    | .10   | 1.30 | 1.50 | .05 | .03 |    |     | .05 |     |     | .50  |     |     |     |     |      | 5.88  |      |
| Colebrook          | Lower Susq.    |              |     | .01 | .22  | .3   | .68  |      |   |   |     |     |     | .16 |      |    | .11   | 1.22 | 1.14 | .09 |     |    |     | .07 |     | .08 | .52  |     |     |     |     |      | 7.25  |      |
| Conshohocken.      | Schuylkill     |              |     |     | .43  | 1.16 | 1.71 |      |   |   |     |     |     |     |      |    | .19   | 2.05 | .40  | .21 | T.  |    |     |     | .04 |     |      | .49 |     |     |     |      |       | 6.68 |
| Cresson\|\| | Juniata        |              |     |     | .30  | .75  | .22  |      |   |   |     | .06 | .33 |     |      |    | .14   | .40  | .11  |     |     |    |     |     |     |     | .64  |     |     |     |     |      | 3.62  |      |
| Doylstown          | Lower Del.     |              |     |     | .01  | .78  | 1.82 |      |   |   |     |     |     | .01 |      |    | .13   | .51  | 1.40 | .03 | .04 | T. |     |     | .34 |     | .09  | .33 | .06 | .14 |     |      | 3.77  |      |
| Emporium.          | W. Br. Susq.   | T.           |     |     | .06  | .71  | 1.10 |      |   |   |     | T.  | T.  | .19 |      |    | .35   | 1.12 | .84  | T.  | T.  |    |     | .02 | .03 |     | .78  |     |     |     |     |      | 7.40  |      |
| Ephrata.           | Lower Susq.    |              |     |     |      | .42  | 3.78 |      |   |   |     |     |     | .11 |      |    |       |      |      |     |     |    |     | T.  | .04 |     | .35  |     |     |     |     |      | 6.78  |      |
| Forest City.       | N. Br. Susq.   |              | .04 |     | 1.10 | 2.49 | 1.45 |      |   |   |     |     |     |     |      |    |       |      |      |     |     |    |     |     |     |     |      |     |     |     |     |      |       |      |
| Freeland\|\|\| | Lehigh.        |              | .11 |     |      | 1.37 | 4.10 | .88  |   |   |     | T.  | .02 | .01 | T.   |    |       | .03  | 1.05 | .14 | .08 | T. |     |     | .26 | T.  | .03  | .92 |     |     | .01 |      | 8.99  |      |
| Galeton.           | W. Br. Susq.   | T.           | .02 |     |      | .86  | 1.55 | T.   |   |   |     | .02 | .10 |     |      |    | .70   | .40  | .06  |     |     |    |     | .16 |     | .03 | T.   | .37 | .03 | .01 | .14 |      | 4.94  |      |
| George School.     | Lower Del.     |              |     | .05 | .92  | 1.31 |      |      |   |   |     |     |     | .02 |      |    | .28   | .52  | 1.43 | .03 | .01 |    |     | T.  | .03 | T.  | .58  |     |     |     |     |      | 5.18  |      |
| Gettysburg         | Potomac.       |              |     |     | T.   | .92  | .90  |      |   |   |     |     |     | .11 | .01  |    | .09   | 1.85 | 1.94 | .38 | .02 |    |     | .02 |     | .05 | .14  | .33 |     |     |     |      | 8.82  |      |
| Girardville\|\|\| | Lower Susq.    | .05          |     |     | 1.78 | 3.51 | 1.72 |      |   |   |     |     |     | .08 |      |    | .95   |      | .08  | .03 |     |    |     | .22 |     |     | .52  | .20 |     |     | .35 |      | 9.49  |      |
| Gordon             | Lower Susq.    |              | .07 |     | .02  | 1.98 | .82  |      |   |   |     |     |     | .07 |      |    | .61   | .55  | .08  |     |     |    |     | .13 |     |     | .06  | .95 |     |     |     |      | 10.34 |      |
| Gouldsboro\|\| | Lehigh.        |              |     |     | .65  | 2.85 | 2.11 |      |   |   |     | .03 | .05 |     |      |    | .07   | 1.28 | .84  |     |     |    |     | .04 | .03 |     | .64  |     |     |     |     |      | 8.54  |      |
| Graterford.        | Schuylkill.    |              |     |     | .27  | 2.32 |      |      |   |   |     | .04 |     |     |      |    | .31   | .54  | 1.15 | .02 |     |    |     | .05 |     |     | .74  |     |     |     |     |      | 6.67  |      |
| Hamburg.           | Schuylkill.    |              |     |     | .40  | 3.40 |      |      |   |   | .03 | .01 | .02 |     |      |    | .09   | 1.34 | 1.45 | .18 | .01 |    |     | .01 | .01 | T.  | .01  | .24 |     |     |     |      | 6.58  |      |
| Hanover.           | Lower Susq.    |              | T.  |     | T.   | .67  | 2.49 |      |   |   |     | .08 |     |     |      |    | .10   | 2.49 | 1.23 | .01 |     |    |     | .08 | T.  | T.  | .42  | .11 | T.  |     |     | .02  | 8.96  |      |
| Harrisburg***      | Lower Susq.    | .01          |     |     | 1.10 | 2.83 | .81  |      |   |   |     | T.  | .20 |     |      |    | .21   | .90  | .11  | .03 |     |    |     | .05 |     | .01 | .39  |     |     |     |     |      | 7.10  |      |
| Hawley\|\|\| | Upper Del.     |              |     |     | .38  | 3.86 | 1.15 |      |   |   |     | T.  | .01 |     |      |    |       |      |      |     |     |    |     |     |     |     |      |     |     |     |     |      |       |      |
| Hollisterville.    | Upper Del.     |              | .04 |     | .02  | .26  | 3.48 | 1.30 |   |   |     | .03 | T.  |     |      |    | T.    | .03  | .90  | .25 | .04 | T. |     | .01 | .06 | T.  | .02  | .55 |     |     | .03 |      | 7.02  |      |
| Holtwood\|\| | Lower Susq.    |              |     |     | .28  | 2.38 | .15  |      |   |   |     |     |     | .07 |      |    | .02   | .36  | 2.01 | .63 | .03 |    |     |     | .08 | T.  | T.   | .37 | .03 |     |     |      | 6.36  |      |
| Huntingdon.        | Juniata        |              | .03 |     | 1.08 | 1.06 |      |      |   |   |     | T.  | .28 |     |      |    | .14   | .44  | T.   |     |     |    |     | .20 |     | .03 | T.   | .50 | .09 | T.  |     |      | 5.08  |      |
| Hyndman.           | Potomac.       |              |     | .03 | .74  | 1.12 |      |      |   |   |     | .02 |     |     |      |    | .25   | 1.64 | .14  | .20 | .01 |    |     | .15 | T.  | T.  | .44  |     |     |     |     |      | 4.83  |      |
| Kylertown.         | W. B. Susq.    |              |     |     | .71  | 1.54 | .01  |      |   |   |     | .05 | .01 | .09 |      |    | .48   | .42  | .04  | .01 |     |    |     | .20 | .01 |     | .41  | .01 | .02 |     |     |      | 4.01  |      |
| Lakeville\|\|\| | Upper Del.     |              |     |     | .39  | 3.60 | 1.20 |      |   |   |     |     |     | .08 |      |    | .16   | 1.02 | .23  | .06 |     |    |     | .02 | .11 |     | T.   | .35 | T.  |     |     |      | 7.14  |      |
| Lancaster          | Lower Susq.    |              |     |     | .34  | 4.34 |      |      |   |   |     | .13 |     |     |      |    | .08   | 1.40 | 1.35 | .25 |     |    |     |     |     |     | .50  |     |     |     |     |      | 8.39  |      |
| Lansford\|\|\| | Lehigh.        |              | .01 |     | .87  | 3.60 | 1.06 |      |   |   |     | T.  | .05 |     |      |    | * .06 | 1.15 | .19  | .03 |     |    |     | .20 |     | .05 | .93  |     |     | T.  | .10 |      | 8.19  |      |
| Lawrenceville.     | N. Br. Susq.   | .20          |     |     | T.   | .43  | 2.80 |      |   |   |     | .10 |     |     |      |    | .08   | .80  | T.   |     |     |    |     |     |     |     | 1.00 | T.  |     |     |     |      | 5.51  |      |
| Lebanon\|\|\| | Lower Susq.    | T.           |     |     | .42  | 2.76 | .33  |      |   |   |     | .13 |     | .04 |      |    | .23   | 1.60 | .26  | .01 |     |    |     | .21 |     | .02 | .52  |     |     |     |     | 1.37 | 7.90  |      |
| Lewisburg.         | W. Br. Susq.   | .01          | .02 |     | .03  | 2.00 | 2.80 |      |   |   |     | .09 | T.  |     |      |    | .82   | .58  | .06  | .05 |     |    |     | .25 | .03 |     | T.   | .68 | T.  |     |     |      | 7.42  |      |
| Lloyd              | do.            |              |     |     | .06  | 1.04 | 1.80 |      |   |   |     |     |     |     |      |    | .55   | .42  | .04  |     |     |    |     | .22 |     |     | .62  |     |     |     |     |      | 4.65  |      |
| Lock Haven.        | W. Br. Susq.   | .02          |     |     | .01  | .79  | 2.46 |      |   |   |     | T.  | .01 | .08 |      |    | .62   | .75  | .18  | .03 |     |    |     | .23 |     |     | .49  |     |     | .02 |     |      | 5.69  |      |
| Lykens.            | Susquehanna    |              |     |     | .04  | 1.42 | 2.34 |      |   |   |     | .06 |     |     |      |    | .07   | .65  | .88  | .09 |     |    |     | .06 | .05 |     | .01  | .85 |     |     |     |      | 6.52  |      |
| Marcus Hook        | Lower Del.     |              |     |     | T.   | 1.08 | 2.05 |      |   |   |     |     |     | .07 |      |    | * .80 | 1.70 |      |     |     |    |     |     |     |     |      |     |     |     |     |      | 5.63  |      |
| Matamoras          | Upper Del.     |              |     |     | .62  | 2.08 | 1.92 |      |   |   |     |     |     | .27 | 1.92 | .0 |       |      |      |     |     |    |     |     |     |     |      |     |     |     |     |      |       |      |



Daily Precipitation for October, 1932—Continued from page 48

| Stations           | Drainage Basin    | Day of month |     |     |        |      |      |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |     |     |      |      | Total |      |
|--------------------|-------------------|--------------|-----|-----|--------|------|------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|------|------|-------|------|
|                    |                   | 1            | 2   | 3   | 4      | 5    | 6    | 7   | 8 | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26   | 27   | 28  | 29  | 30   | 31   |       |      |
| Ohio Drainage.     |                   |              |     |     |        |      |      |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |     |     |      |      |       |      |
| Beaver Dam\|\|\| | Ohio.....         |              |     |     | .06    | .72  |      |     |   |     | .06 |     | .06 | .25 |     |     |     | .26 | .21 | .02 |     |     |     | .13 | .15 |     |      | .60  | .14 |     |      |      | 2.66  |      |
| Beaver Falls\|\|\| | Beaver.....       |              | T.  |     | .05    | .67  |      |     |   |     | .02 | T.  | .03 | .21 |     |     |     | .24 | .33 | .01 |     |     |     | .15 | .17 |     |      | .50  | .14 |     | .01  |      | 2.53  |      |
| Bradford.....      | Allegheny.....    |              |     |     | .69    | .85  | .05  |     |   |     | .10 | .19 |     |     |     |     |     | .24 | .10 | .02 |     | .02 |     | .15 | .17 |     |      | .33  | .16 | .08 | .05  | .02  | 3.53  |      |
| Brookville.....    | do.....           | .05          | .07 |     | .90    | .70  | .20  |     |   |     | .07 |     | .05 | .12 |     |     |     | .16 | .30 |     |     |     |     | .15 | .20 |     |      | .60  | .08 |     | .04  |      | 3.65  |      |
| Butler.....        | Ohio.....         |              |     |     | * 1.26 |      |      |     |   |     |     |     | .26 |     |     |     |     | .80 |     |     |     |     | .31 |     |     |     |      | .51  | .05 |     |      |      | 3.19  |      |
| Chambersville..... | Allegheny.....    |              |     | .01 | .76    | .13  | .05  |     |   |     | .04 |     | .17 |     |     |     |     | .54 | .04 | .01 |     | .01 |     | .19 |     |     | .02  | .68  | .32 | .01 |      |      | 3.88  |      |
| Clairton\|\|\| | Monongahela.....  |              |     | .04 | .75    | .21  |      |     |   | .01 | T.  |     | .14 |     |     |     |     | .38 | T.  | .06 |     |     |     | .23 |     |     | .36  | .06  |     |     | .04  |      | 2.28  |      |
| Claysville.....    | Ohio.....         |              |     |     | .83    | .50  |      |     |   |     | .65 |     | .16 |     |     |     |     | .33 | .08 | .03 |     |     |     | .21 | .02 |     | T.   | .47  | .13 |     | T.   |      | 3.41  |      |
| Clymer\|\|\| | Conemaugh.....    |              |     |     | .18    | 1.50 | .20  |     |   |     |     | .04 |     | T.  | .19 |     |     |     | .69 | .30 |     |     |     | .15 |     |     | .52  | .42  |     |     | .68  |      | 3.99  |      |
| Confluence\|\|\| | Youghiogheny..... |              |     |     | .14    | .06  |      |     |   |     |     | .20 | T.  | .19 |     |     |     | .69 | .08 | .05 |     |     |     | .39 |     |     | .45  | .11  |     |     |      |      | 3.47  |      |
| Corry.....         | Allegheny.....    | T.           |     |     | .92    | .80  |      |     |   |     | .52 | .20 | .04 |     |     |     |     | .03 |     | .37 |     |     |     | .33 |     |     | .81  | .80  | .14 | .15 | 1.00 | .06  | 6.17  |      |
| Coudersport.....   | Allegheny.....    |              |     |     | .17    | 1.44 | .36  |     |   |     | .08 | .08 |     |     |     |     | .10 |     | .39 |     |     |     |     | .18 |     | .03 | .65  | .02  | .11 | .08 | .04  | .80  |       | 4.53 |
| Derry.....         | Conemaugh.....    |              |     |     | .71    | .94  |      |     |   |     |     |     | .23 |     |     |     |     | .22 | .03 |     |     |     | .22 |     |     |     | .79  | .79  | .19 | T.  |      |      | 3.33  |      |
| Donora\|\|\| | Monongahela.....  | T.           |     |     | .17    | .94  |      |     |   | T.  | .04 |     | .12 | .12 | T.  |     |     | .22 | .11 | .05 | T.  |     | T.  | .26 |     |     | .51  | .05  |     |     |      | T.   | 2.59  |      |
| Ebensburg.....     | Conemaugh.....    |              |     | .01 | .75    | 1.45 | T.   |     |   |     | .16 |     | .35 |     |     |     |     | .35 | .18 |     | .09 | .04 | .02 |     | .16 | .03 |      | .45  | .20 | T.  |      |      | 4.24  |      |
| Elk Lick.....      | Youghiogheny..... |              |     |     |        |      |      |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |     |     |      |      |       |      |
| Falls Creek.....   | Allegheny.....    |              |     |     | .33    | .95  | .04  |     |   |     | .18 | .10 |     | .17 |     |     |     | .04 | .42 |     |     |     |     | .09 | .20 |     | .73  | .09  |     |     | .07  | T.   | 3.41  |      |
| Franklin\|\|\| | Allegheny.....    |              |     |     | .24    | .98  |      |     |   |     | .04 | T.  | .01 | .29 |     |     |     | .24 | .48 | .12 |     |     |     | .05 | .21 |     | .51  | .29  |     |     | .01  |      | 3.47  |      |
| Freeport\|\|\| | do.....           | T.           |     |     | .07    | 1.11 |      |     |   |     | .06 |     | .02 | .08 |     |     |     | .47 | .04 |     |     |     |     | T.  | .28 |     | .51  | .10  |     |     |      |      | 2.74  |      |
| Greensboro.....    | Monongahela.....  |              |     |     | .52    | .91  |      |     |   |     | T.  | T.  | .22 |     |     |     |     | .34 | .02 | .03 |     |     |     |     |     |     | .59  | .11  | T.  |     | T.   |      | 2.97  |      |
| Greensburg.....    | Youghiogheny..... |              |     |     | .50    | .13  |      |     |   |     | .20 |     | .28 |     |     |     |     | .12 | .38 |     |     |     |     | .23 |     |     | .65  | .60  | .20 | T.  |      | .05  | 3.34  |      |
| Greenville.....    | Beaver.....       |              |     |     | .66    | .45  |      |     |   |     | .45 | .03 | .14 | .15 |     |     |     | .30 | .34 |     |     |     |     | .32 |     |     | .03  | .62  | .62 |     | .01  |      | 3.50  |      |
| Grove City.....    | do.....           |              |     |     | .17    | .94  |      |     |   |     | .04 |     | .12 | .12 | T.  |     |     | .22 | .11 | .05 | T.  |     | T.  | .26 |     |     | .51  | .05  |     |     |      | T.   | 2.59  |      |
| Herrs Isl. Dam\|\|\| | Ohio.....         |              |     |     | .17    | .92  | T.   |     |   |     | .04 | T.  | .02 | .08 |     |     |     | .26 | .21 | .08 | T.  |     | T.  |     | .06 | .23 |      | .47  | .16 |     |      |      | 2.70  |      |
| Ingram.....        | Ohio.....         |              |     |     | .70    | .47  |      |     |   |     | .07 |     | .15 |     |     |     |     | .45 | .05 | .04 | T.  |     |     | .32 |     |     | .40  | .15  | .16 |     |      |      | 2.96  |      |
| Irwin.....         | Monongahela.....  |              |     |     | .33    | .75  |      |     |   |     |     | .02 | .18 |     |     |     |     | .19 |     | .02 |     |     |     | .31 |     |     |      | .32  | .08 |     |      |      | 2.20  |      |
| Johnstown.....     | Conemaugh.....    |              |     |     | .85    | 1.06 |      |     |   |     | .08 |     | .20 |     |     |     | .01 | .28 | .02 | T.  |     |     |     | .32 |     |     | .30  | .22  | .13 | .02 |      | .01  | 3.50  |      |
| Kane (near) \|\|\| | Allegheny.....    | .02          | T.  |     | T.     | .85  | 1.15 | .02 |   |     | .10 | .10 | .06 |     |     |     |     | .30 | .10 |     |     | .02 | .07 |     | .22 | .06 |      | .60  | .12 | .05 | T.   |      | 3.84  |      |
| Kregar\|\|\| | Youghiogheny..... |              |     |     | .18    | 1.60 | .10  |     |   |     | T.  | T.  | .36 |     |     |     | .16 | .08 | .08 | .04 | T.  |     |     | .24 |     | T.  | .56  | .16  |     | T.  |      | .41  | 3.97  |      |
| Lake Lynn\|\|\| | Monongahela.....  |              |     |     | .11    | 1.16 | .02  |     |   |     | .09 |     | .04 |     |     |     |     | .32 |     |     |     |     |     |     | .12 |     |      | .58  | .12 |     |      |      | 2.56  |      |
| Linesville\|\|\| | Beaver.....       |              | .08 |     | .17    | .35  | .07  |     |   |     | .15 | .24 | T.  | .11 |     |     |     | .56 |     |     |     |     |     | .07 | .8  |     | 1.21 | .04  |     |     | .06  | 3.19 |       |      |
| Lock No 2\|\|\| | Ohio.....         |              |     |     | .16    | 1.10 |      |     |   |     | .04 |     | .02 | .08 |     |     |     | .24 | .13 | .01 | T.  |     |     | .05 | .25 |     | .55  | .07  |     |     |      | T.   | 2.70  |      |
| Lock No. 4\|\|\| | Monongahela.....  |              |     |     | .07    | .97  | .02  |     |   |     | .06 |     | .04 | .26 |     |     |     | .21 | .08 | .04 | T.  |     |     | T.  | .26 |     |      | .51  | .08 |     |      | T.   | 2.60  |      |
| Lycippus.....      | Conemaugh.....    |              |     | .43 | .43    | 1.20 |      |     |   |     |     | .22 |     |     |     | .34 |     | T.  | T.  | T.  |     |     |     | .30 |     |     |      | .70  |     |     |      |      | 3.62  |      |
| McKeesport\|\|\| | Monongahela.....  |              |     |     | .13    | .89  |      |     |   |     | .02 |     | T.  | .18 |     |     |     | .19 | .34 | .19 |     |     |     | .11 | .12 |     |      | .48  | .07 |     |      |      | 2.72  |      |
| Meadville.....     | Allegheny.....    |              |     | .03 | .49    | .21  |      |     |   |     | .25 | .20 | .10 |     |     |     |     | .03 | .46 |     |     |     |     | .21 |     |     | .60  | .70  | .10 | .04 | .06  | .02  | 3.50  |      |
| Mount Lebanon..... | Ohio.....         | T.           |     |     | .83    | .52  |      |     |   |     | .05 |     | .17 |     |     |     |     | .36 | .10 | .06 |     |     |     | .32 | .01 |     | .18  | .32  | .19 |     |      |      | 3.11  |      |
| Natrona\|\|\| | Allegheny.....    | T.           |     |     | .16    | .90  |      |     |   |     | .06 | T.  | .03 | .35 |     |     |     | .26 | .39 | .01 |     |     |     | .04 | .20 |     | .17  | .57  | .24 |     | .02  |      | 3.23  |      |
| New Castle\|\|\| | Beaver.....       | .01          |     |     | .22    | .47  | .03  |     |   | .01 | .09 | .02 | .09 | .18 | .01 |     |     | .11 | .48 | .01 | T.  |     |     | .01 | .25 | .08 | .01  | .69  | .01 |     |      | .01  | 2.79  |      |
| Newell.....        | Monongahela.....  |              |     |     | .28    | .66  |      |     |   |     | .09 |     | .20 |     |     |     |     | .23 |     |     |     |     |     | .27 |     |     |      | .36  | .05 |     |      |      | 2.14  |      |
| Parkers Landing\|\|\| | Allegheny.....    |              |     | T.  | .28    | .98  | .02  |     |   |     | .05 | T.  | .02 | .11 |     |     |     | T.  | .76 | T.  |     |     |     | .06 | .22 |     |      | .47  | .04 | T.  |      | T.   | 3.01  |      |
| Pennline\|\|\| | Beaver.....       | T.           |     |     | .22    | .24  | .03  |     |   |     | .11 | .26 | .44 | .06 |     |     |     | .05 | .43 | .02 |     |     |     | .15 | .08 |     |      | 1.22 | .05 |     | T.   |      | 2.96  |      |
| Pittsburgh***      | Ohio.....         |              |     | .12 | .73    | .27  |      |     |   | T.  | .03 | T.  | .12 |     |     |     |     | .43 | .04 | .03 | T.  |     |     | .30 |     |     | .42  | .18  |     |     |      | .12  | 2.79  |      |
| Punxsutawney\|\|\| | Allegheny.....    |              |     |     | .26    | 1.38 | .18  |     |   |     |     |     | T.  | .18 |     |     |     | .12 | .34 | .38 |     | .12 |     |     | .22 |     |      | .62  |     |     | .18  |      | 3.98  |      |
| Ridgway.....       | do.....           |              |     |     | .11    | .51  | .20  |     |   |     | .05 | .01 | .15 | .05 |     |     |     |     | .33 |     | .01 |     |     |     | .27 |     |      | .42  | .04 | T.  |      | .04  | 3.19  |      |
| Saltsburg\|\|\| | Conemaugh.....    | .01          |     |     | .18    | 1.23 | .07  |     |   |     | .02 |     |     | .25 |     |     |     | .18 | .18 | .08 |     |     |     | .05 | .20 |     |      | .50  | .23 |     | .02  |      | 3.20  |      |
| Sharon\|\|\| | Beaver.....       |              |     |     | .21    | .19  | .03  |     |   |     | .11 | .03 | .06 | .05 |     |     |     | .20 |     |     |     |     |     | .20 | .02 |     |      | .62  | .06 |     | T.   | T.   | 1.78  |      |
| Smethport.....     | Allegheny.....    |              |     |     | .04    | 1.50 | .18  |     |   |     | .05 | .10 | T.  |     |     |     |     | T.  | .40 | T.  | T.  | T.  |     | .05 | .18 |     |      | .71  | .07 | T.  | .05  | T.   | 3.33  |      |
| Somersett.....     | Youghiogheny..... |              |     | T.  | .70    | 1.28 |      |     |   |     | .03 |     | .34 |     |     |     | .01 | .55 | .09 | .70 | .03 |     |     | .20 |     |     |      | .40  | .03 |     |      |      | 4.36  |      |
| Springdale\|\|\| | Allegheny.....    |              |     |     | .18    | 1.00 | .04  |     |   |     | .05 | .01 | .02 | .22 |     |     |     | .22 | .28 | .12 | T.  |     |     | .06 | .21 |     |      | .55  | .26 |     | .01  |      | 3.23  |      |
| Uniontown.....     | Monongahela.....  |              |     |     | .60    | .88  |      |     |   |     | .09 |     | .10 |     |     |     | .02 | .27 | T.  | .05 |     |     |     | .28 |     |     | T.   | .70  | .10 |     |      | T.   | 3.09  |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |     |     | .50    | .97  |      |     |   |     | .05 |     | .25 |     |     |     |     | .22 | T.  |     | .04 |     |     | .25 |     |     |      | .66  | .19 | T.  |      | T.   | 3.08  |      |
| Vandergrift\|\|\| | Conemaugh.....    |              |     |     | .90    | .34  |      |     |   |     | .05 |     | .35 |     |     |     |     | .61 | .05 | .01 |     |     |     |     |     |     | .55  | .30  |     |     |      | 3.38 |       |      |
| Warren.....        | Allegheny.....    |              |     |     | 1.15   | .03  | .13  |     |   |     | .14 | .04 | .04 | .03 | .01 |     |     | .08 | .35 |     | .01 |     |     | .05 |     |     | .32  | .25  | .63 | .14 | .05  | .06  | 3.56  |      |
| Waynesburg.....    | Monongahela.....  |              |     |     | .52    | .68  |      |     |   |     | .05 |     | .10 |     |     |     |     | .49 | .06 |     |     |     |     | .38 |     |     |      | .46  | .12 |     |      |      | 2.86  |      |
| Westford\|\|\| | Beaver.....       | .03          |     |     | .20    | .38  |      |     |   | .50 | .30 | .20 |     |     |     |     |     | .41 |     |     |     |     |     | .20 |     |     | 1.10 | .23  |     | .02 | .03  | .49  | 4.09  |      |
| West Newton\|\|\| | Youghiogheny..... |              |     |     | .14    | 1.01 |      |     |   |     | .02 |     | .02 | .16 |     |     |     | .19 | .05 | .07 |     |     |     | T.  | .26 |     |      | .46  | .06 |     |      | T.   | 2.44  |      |
| Lake Drainage.     |                   |              |     |     |        |      |      |     |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |     |     |      |      |       |      |
| Erie***            | Lake Erie.....    | .01          | T.  |     | .03    | .24  | .15  |     |   |     | .01 | .02 | .21 | .01 |     |     |     | .27 | T.  | T.  |     |     |     |     | .28 |     |      | 1.12 | .14 | .05 | .08  | .06  | .01   | 2.69 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Blosserville,  
of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Anasink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox. † Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

| Stations          | Sunshine                |                          |                        | Humidity         |          |         | † Wind                   |                             |          |           |      |
|-------------------|-------------------------|--------------------------|------------------------|------------------|----------|---------|--------------------------|-----------------------------|----------|-----------|------|
|                   | Total hours of Sunshine | Number of hours possible | Percentage of possible | Average per cent |          |         | Total movement, in miles | Velocity, in miles per hour |          |           |      |
|                   |                         |                          |                        | 8 a. m.          | 12 noon. | 8 p. m. |                          | Average                     | *Highest | Direction | Date |
| Erie.....         | 120.8                   | 343.1                    | 35                     | 73               | 68       | 75      | 11,733                   | 15.8                        | 41       | se.       | 31   |
| Harrisburg.....   | 138.0                   | 345.2                    | 40                     | 79               | 60       | 68      | 5,775                    | 7.8                         | 27       | sw.       | 26   |
| Philadelphia..... | 168.2                   | 345.2                    | 49                     | 77               | 56       | 66      | 9,773                    | 13.1                        | 33       | s.        | 26   |
| Pittsburgh.....   | 125.1                   | 344.1                    | 36                     | 74               | 55       | 62      | 8,398                    | 11.3                        | 32       | sw.       | 29   |
| Reading.....      | 125.7                   | 345.2                    | 36                     | 75               | 60       | 67      | 5,729                    | 7.7                         | 24       | ew.       | 17   |
| Seranton.....     | 120.3                   | 344.1                    | 35                     | 82               | 58       | 68      | 5,276                    | 7.1                         | 26       | nw.       | 5    |

\* For any five-minute period.

† By 3-cup anemometer.

## RIVER CONDITIONS

| Stations          | Rivers            | Mean stage | Highest stage | Date | Lowest stage | Date | Flood stage |
|-------------------|-------------------|------------|---------------|------|--------------|------|-------------|
| Port Jervis.....  | Delaware.....     | 3.2        | 11.6          | 7    | 1.2          | 3    | 18          |
| Phillipsburg..... | Delaware.....     | 2.7        | 11.0          | 8    | 0.0          | 3    | 22          |
| Mauch Chunk.....  | Lehigh.....       | 2.5        | 5.9           | 7    | 0.9          | 4    | 17          |
| Wilkes-Barre..... | Susquehanna.....  | 5.0        | 13.7          | 8    | 1.1          | 1    | 22          |
| Williamsport..... | Susquehanna.....  | 0.7        | 2.2           | 7    | -0.2         | 1    | 20          |
| Harrisburg.....   | Susquehanna.....  | 4.3        | 6.6           | 9    | 2.9          | 2    | 17          |
| Greensboro.....   | Monongahela.....  | 11.1       | 12.0          | 27   | 9.1          | 2    | 30          |
| West Newton.....  | Youghiogheny..... | 0.3        | 0.9           | 20   | 0.0          | 5    | 20          |
| Lock No. 4.....   | Monongahela.....  | 12.9       | 13.9          | 19   | 12.2         | 7    | 31          |
| Pittsburgh.....   | Ohio.....         | 11.2       | 11.6          | 20   | 10.9         | 1    | 25          |
| Beaver Dam.....   | Ohio.....         | 7.3        | 7.8           | 9    | 6.7          | 15   | 30          |



Daily Temperatures for October, 1932

| Stations           | 1         | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |
|--------------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| Allentown.....     | Maximum.. | 72 | 78 | 80 | 74 | 73 | 62 | 58 | 73 | 77 | 75 | 61 | 53 | 48 | 58 | 64 | 60 | 62 | 65 | 61 | 66 | 66 | 64 | 52 | 52 | 59 | 70 | 61 | 55 | 60 | 57 | 63.2 |      |
|                    | Minimum.. | 45 | 50 | 48 | 54 | 62 | 54 | 42 | 43 | 42 | 46 | 51 | 40 | 34 | 30 | 32 | 36 | 52 | 59 | 58 | 53 | 49 | 43 | 40 | 44 | 45 | 50 | 54 | 41 | 35 | 39 | 45.3 |      |
| Altoona.....       | Maximum.. | 72 | 77 | 78 | 71 | 65 | 50 | 39 | 76 | 76 | 72 | 64 | 46 | 43 | 53 | 62 | 60 | 58 | 60 | 62 | 68 | 64 | 64 | 54 | 50 | 51 | 66 | 64 | 51 | 58 | 43 | 61.0 |      |
|                    | Minimum.. | 45 | 46 | 50 | 46 | 50 | 40 | 38 | 37 | 42 | 43 | 40 | 34 | 29 | 27 | 32 | 43 | 53 | 55 | 55 | 54 | 43 | 38 | 42 | 44 | 47 | 49 | 40 | 35 | 30 | 26 | 41.7 |      |
| Bedford.....       | Maximum.. | 75 | 80 | 83 | 76 | 68 | 52 | 60 | 78 | 77 | 74 | 67 | 52 | 49 | 58 | 64 | 60 | 60 | 63 | 63 | 71 | 68 | 66 | 60 | 53 | 53 | 70 | 66 | 51 | 63 | 61 | 64.4 |      |
|                    | Minimum.. | 43 | 41 | 49 | 46 | 52 | 40 | 42 | 35 | 37 | 41 | 42 | 39 | 29 | 34 | 32 | 47 | 55 | 59 | 57 | 57 | 45 | 42 | 39 | 45 | 51 | 53 | 48 | 38 | 28 | 40 | 36.3 |      |
| Bellefonte.....    | Maximum.. | 72 | 78 | 80 | 74 | 68 | 50 | 60 | 73 | 76 | 73 | 64 | 50 | 41 | 51 | 62 | 65 | 60 | 62 | 63 | 67 | 50 | 64 | 49 | 54 | 53 | 69 | 55 | 53 | 58 | 45 | 50   | 61.0 |
|                    | Minimum.. | 45 | 44 | 47 | 58 | 48 | 40 | 41 | 37 | 38 | 42 | 37 | 36 | 28 | 27 | 30 | 46 | 56 | 57 | 56 | 50 | 45 | 39 | 38 | 47 | 49 | 51 | 38 | 34 | 30 | 31 | 25   | 41.6 |
| Brookville.....    | Maximum.. | 67 | 72 | 77 | 79 | 77 | 63 | 49 | 61 | 75 | 74 | 74 | 58 | 55 | 44 | 46 | 76 | 60 | 67 | 66 | 73 | 46 | 65 | 53 | 61 | 59 | 75 | 58 | 53 | 55 | 43 | 63.7 |      |
|                    | Minimum.. | 30 | 29 | 36 | 43 | 40 | 41 | 35 | 32 | 30 | 36 | 30 | 36 | 29 | 30 | 30 | 40 | 52 | 58 | 56 | 44 | 35 | 33 | 37 | 47 | 53 | 48 | 35 | 28 | 26 | 25 | 38.1 |      |
| Butler.....        | Maximum.. | 68 | 72 | 74 | 80 | 71 | 60 | 70 | 66 | 70 | 70 | 65 | 45 | 58 | 71 | 65 | 65 | 66 | 67 | 73 | 71 | 60 | 60 | 71 | 77 | 75 | 75 | 56 | 56 | 54 | 58 | 66.1 |      |
|                    | Minimum.. | 36 | 44 | 42 | 48 | 46 | 42 | 34 | 33 | 34 | 40 | 38 | 39 | 32 | 34 | 31 | 45 | 47 | 56 | 53 | 57 | 42 | 36 | 40 | 42 | 47 | 57 | 36 | 39 | 30 | 24 | 30   | 40.5 |
| Carlisle.....      | Maximum.. | 65 | 81 | 82 | 75 | 71 | 70 | 61 | 72 | 68 | 68 | 68 | 50 | 50 | 51 | 59 | 59 | 60 | 63 | 63 | 64 | 64 | 68 | 63 | 52 | 54 | 67 | 67 | 54 | 59 | 52 | 59   | 63.2 |
|                    | Minimum.. | 38 | 43 | 44 | 54 | 65 | 45 | 41 | 38 | 38 | 45 | 42 | 48 | 41 | 31 | 29 | 30 | 47 | 57 | 59 | 59 | 48 | 44 | 42 | 47 | 48 | 52 | 49 | 40 | 30 | 38 | 27   | 44.2 |
| Catawissa.....     | Maximum.. | 74 | 77 | 84 | 73 | 72 | 65 | 62 | 75 | 75 | 76 | 66 | 52 | 46 | 55 | 67 | 67 | 65 | 66 | 70 | 68 | 58 | 67 | 54 | 52 | 56 | 69 | 64 | 56 | 61 | 59 | 59   | 64.8 |
|                    | Minimum.. | 40 | 44 | 49 | 55 | 55 | 42 | 40 | 39 | 46 | 44 | 42 | 40 | 30 | 34 | 44 | 32 | 50 | 60 | 57 | 53 | 44 | 38 | 37 | 42 | 50 | 52 | 40 | 50 | 31 | 40 | 29   | 43.5 |
| Chambersburg.....  | Maximum.. | 78 | 81 | 84 | 74 | 72 | 56 | 64 | 74 | 76 | 74 | 76 | 65 | 58 | 48 | 61 | 67 | 61 | 61 | 65 | 65 | 69 | 64 | 70 | 60 | 50 | 53 | 68 | 68 | 64 | 56 | 53   | 65.1 |
|                    | Minimum.. | 35 | 47 | 46 | 50 | 56 | 44 | 42 | 38 | 40 | 43 | 50 | 40 | 35 | 28 | 34 | 48 | 55 | 56 | 57 | 58 | 47 | 43 | 40 | 46 | 48 | 52 | 48 | 38 | 31 | 41 | 29   | 44.0 |
| Chambersville..... | Maximum.. | 75 | 79 | 83 | 79 | 66 | 66 | 48 | 61 | 78 | 77 | 67 | 51 | 45 | 61 | 76 | 77 | 67 | 66 | 64 | 72 | 66 | 64 | 55 | 63 | 66 | 80 | 67 | 52 | 60 | 48 | 56   | 65.6 |
|                    | Minimum.. | 39 | 46 | 53 | 50 | 45 | 40 | 41 | 38 | 35 | 44 | 38 | 35 | 27 | 32 | 37 | 49 | 54 | 57 | 56 | 55 | 42 | 35 | 39 | 46 | 50 | 54 | 38 | 34 | 30 | 38 | 25   | 42.0 |
| Claysville.....    | Maximum.. | 74 | 79 | 82 | 78 | 72 | 52 | 61 | 78 | 77 | 73 | 69 | 54 | 47 | 66 | 73 | 70 | 65 | 68 | 66 | 72 | 66 | 66 | 57 | 76 | 78 | 72 | 55 | 60 | 50 | 70 | 67.9 |      |
|                    | Minimum.. | 43 | 47 | 53 | 60 | 46 | 42 | 35 | 37 | 43 | 47 | 39 | 41 | 29 | 31 | 35 | 55 | 55 | 58 | 58 | 57 | 42 | 36 | 40 | 47 | 50 | 60 | 37 | 36 | 34 | 39 | 27   | 43.8 |
| Clearfield.....    | Maximum.. | 74 | 80 | 83 | 74 | 66 | 59 | 67 | 77 | 79 | 77 | 65 | 54 | 54 | 42 | 56 | 70 | 62 | 64 | 67 | 70 | 69 | 66 | 55 | 62 | 70 | 67 | 57 | 75 | 68 | 58 | 65   | 65.7 |
|                    | Minimum.. | 48 | 33 | 40 | 48 | 42 | 42 | 40 | 34 | 45 | 42 | 37 | 40 | 27 | 35 | 40 | 40 | 54 | 55 | 57 | 55 | 43 | 52 | 46 | 43 | 40 | 41 | 34 | 30 | 32 | 26 | 23   | 40.5 |
| Coatesville.....   | Maximum.. | 75 | 79 | 81 | 80 | 77 | 70 | 60 | 72 | 77 | 77 | 62 | 58 | 49 | 59 | 66 | 68 | 62 | 64 | 64 | 66 | 59 | 63 | 60 | 54 | 59 | 71 | 66 | 56 | 61 | 53 | 57   | 65.3 |
|                    | Minimum.. | 43 | 51 | 50 | 57 | 68 | 45 | 41 | 41 | 43 | 46 | 46 | 40 | 34 | 32 | 32 | 49 | 57 | 60 | 57 | 53 | 48 | 42 | 42 | 42 | 42 | 52 | 46 | 41 | 32 | 40 | 31   | 45.3 |
| Corry.....         | Maximum.. | 72 | 73 | 77 | 76 | 65 | 54 | 69 | 74 | 69 | 74 | 58 | 45 | 42 | 69 | 74 | 75 | 67 | 68 | 72 | 64 | 66 | 64 | 62 | 61 | 51 | 50 | 63 | 65 | 52 | 39 | 46   | 40.7 |
|                    | Minimum.. | 38 | 49 | 45 | 56 | 35 | 39 | 42 | 38 | 45 | 46 | 37 | 33 | 34 | 25 | 30 | 51 | 54 | 58 | 54 | 43 | 42 | 34 | 40 | 44 | 42 | 40 | 36 | 30 | 33 | 34 | 36   | 40.7 |
| Coudersport.....   | Maximum.. | 67 | 72 | 76 | 76 | 67 | 53 | 59 | 73 | 73 | 71 | 68 | 45 | 45 | 55 | 66 | 73 | 70 | 62 | 61 | 66 | 64 | 62 | 61 | 51 | 50 | 63 | 65 | 52 | 53 | 49 | 48   | 39.0 |
|                    | Minimum.. | 29 | 40 | 46 | 51 | 51 | 36 | 38 | 31 | 34 | 39 | 39 | 34 | 27 | 25 | 29 | 42 | 50 | 54 | 54 | 51 | 40 | 35 | 32 | 45 | 46 | 49 | 39 | 37 | 27 | 34 | 28   | 39.0 |
| Emporium.....      | Maximum.. | 67 | 73 | 77 | 75 | 68 | 51 | 60 | 71 | 72 | 71 | 63 | 52 | 42 | 53 | 66 | 74 | 63 | 66 | 65 | 68 | 58 | 62 | 50 | 55 | 55 | 67 | 57 | 49 | 47 | 30 | 41   | 47.3 |
|                    | Minimum.. | 35 | 43 | 52 | 45 | 41 | 42 | 40 | 35 | 39 | 45 | 42 | 40 | 34 | 31 | 32 | 42 | 57 | 59 | 58 | 55 | 45 | 42 | 38 | 48 | 51 | 53 | 41 | 38 | 30 | 37 | 30   | 62.7 |
| Erie.....          | Maximum.. | 71 | 66 | 78 | 78 | 66 | 51 | 60 | 74 | 70 | 73 | 49 | 46 | 47 | 58 | 74 | 74 | 68 | 60 | 62 | 71 | 51 | 58 | 54 | 63 | 72 | 75 | 55 | 48 | 52 | 45 | 54   | 62.0 |
|                    | Minimum.. | 53 | 55 | 55 | 61 | 48 | 48 | 47 | 50 | 58 | 49 | 48 | 38 | 39 | 36 | 47 | 57 | 57 | 55 | 55 | 47 | 47 | 43 | 49 | 49 | 53 | 48 | 40 | 40 | 39 | 38 | 36   | 47.6 |
| Franklin.....      | Maximum.. | 74 | 78 | 79 | 77 | 55 | 52 | 61 | 75 | 74 | 74 | 50 | 51 | 42 | 62 | 77 | 76 | 65 | 67 | 68 | 72 | 56 | 68 | 55 | 70 | 71 | 76 | 57 | 54 | 55 | 42 | 59   | 64.4 |
|                    | Minimum.. | 36 | 40 | 50 | 47 | 49 | 42 | 39 | 34 | 35 | 41 | 39 | 38 | 27 | 29 | 30 | 34 | 52 | 57 | 57 | 56 | 44 | 34 | 35 | 43 | 45 | 50 | 36 | 37 | 30 | 36 | 25   | 40.2 |
| Freeland.....      | Maximum.. | 69 | 73 | 75 | 68 | 65 | 65 | 63 | 69 | 74 | 71 | 62 | 48 | 44 | 52 | 61 | 62 | 58 | 61 | 59 | 61 | 55 | 59 | 52 | 46 | 52 | 60 | 61 | 51 | 51 | 50 | 53   | 59.4 |
|                    | Minimum.. | 46 | 54 | 55 | 55 | 62 | 38 | 36 | 43 | 52 | 51 | 43 | 34 | 30 | 30 | 38 | 48 | 53 | 55 | 53 | 49 | 40 | 37 | 43 | 40 | 42 | 44 | 41 | 36 | 34 | 36 | 31   | 43.5 |
| Gettysburg.....    | Maximum.. | 75 | 80 | 81 | 76 | 71 | 71 | 62 | 73 | 75 | 75 | 66 | 56 | 50 | 60 | 65 | 60 | 61 | 63 | 63 | 67 | 65 | 67 | 62 | 55 | 55 | 68 | 68 | 56 | 63 | 60 | 54   | 65.3 |
|                    | Minimum.. | 44 | 48 | 48 | 57 | 64 | 45 | 42 | 39 | 42 | 45 | 47 | 42 | 35 | 30 | 34 | 50 | 57 | 59 | 58 | 55 | 48 | 39 | 43 | 48 | 49 | 53 | 49 | 41 | 32 | 42 | 30   | 45.6 |
| Greensburg.....    | Maximum.. | 72 | 79 | 82 | 75 | 67 | 50 | 81 | 66 | 65 | 72 | 65 | 52 | 49 | 65 | 77 | 70 | 64 | 65 | 71 | 73 | 67 | 66 | 55 | 71 | 71 | 78 | 73 | 52 | 61 | 48 | 65   | 66.7 |
|                    | Minimum.. | 43 | 48 | 54 | 56 | 48 | 42 | 38 | 40 | 36 | 51 | 40 | 39 | 31 | 35 | 35 | 52 | 56 | 60 | 57 | 57 | 44 | 36 | 43 | 48 | 52 | 56 | 40 | 37 | 33 | 40 | 29   | 44.4 |
| Grove City.....    | Maximum.. | 65 | 68 | 75 | 67 | 67 | 58 | 68 | 69 | 65 | 65 | 65 | 59 | 43 | 56 | 69 | 64 | 61 | 63 | 62 | 62 | 61 | 59 | 59 | 61 | 63 | 63 | 46 | 51 | 44 | 55 | 61.1 |      |
|                    | Minimum.. | 45 | 52 | 57 | 57 | 45 | 42 | 39 | 42 | 46 | 52 | 38 | 35 | 34 | 31 | 40 | 53 | 55 | 56 | 58 | 56 | 41 | 35 | 45 | 47 | 50 | 55 | 35 | 38 | 38 | 29 | 44.5 |      |
| Hamburg.....       | Maximum.. | 72 | 76 | 77 | 78 | 68 | 65 | 58 | 71 | 71 | 72 | 65 | 52 | 57 | 56 | 59 | 64 | 64 | 64 | 66 | 60 | 60 | 60 | 56 | 55 | 54 | 69 | 70 | 65 | 68 | 64 | 69   | 64.2 |
|                    | Minimum.. | 40 | 39 | 41 | 55 | 52 | 45 | 40 | 39 | 40 | 42 | 40 | 35 | 32 | 28 | 30 | 39 | 43 | 58 | 54 | 52 | 50 | 40 | 42 | 44 | 49 | 52 | 52 | 40 | 32 | 29 | 39   | 42.9 |
| Harrisburg.....    | Maximum.. | 75 | 77 | 81 | 74 | 72 | 52 | 63 | 72 | 72 | 72 | 64 | 52 | 47 | 57 | 63 | 60 | 61 | 64 | 64 | 66 | 63 | 68 | 55 | 53 | 56 | 69 | 57 | 55 | 61 | 50 | 52   | 62.8 |
|                    | Minimum.. | 50 | 52 | 55 | 59 | 51 | 46 | 44 | 46 | 47 | 51 | 43 | 39 | 36 | 36 | 54 | 58 | 60 | 59 | 57 | 50 | 45 | 46 | 49 | 49 | 51 | 44 | 44 | 38 | 41 | 35 | 47   | 57.7 |
| Hawley.....        | Maximum.. | 69 | 75 | 78 | 71 | 70 | 68 | 55 | 72 | 77 | 77 | 66 | 52 | 51 | 54 | 61 | 63 | 61 | 61 | 61 | 61 | 59 | 63 | 57 | 48 | 51 | 61 | 65 | 51 | 58 | 54 | 52   | 61.9 |
|                    | Minimum.. | 43 | 48 | 45 | 57 | 64 | 44 | 36 | 34 | 33 | 40 | 49 | 35 | 29 | 24 | 27 | 37 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

## PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII.

NOVEMBER, 1932.

No. 11.

### GENERAL SUMMARY.

This was the coolest November since 1917, and yet the average temperature deficiency for the State was a little less than two degrees. The State mean was practically ten degrees lower than for November of last year. There were no wide departures from the normal on either side until the 27th and 28th when a moderate cold wave brought zero temperatures to a few places, and generally lower temperatures than were recorded in all of last winter. There was little freezing in the southern counties during the first three weeks, and lawns remained green in most places. The rainfall was above the normal in nearly all parts of the State with a large excess in the Delaware Basin. Many stations in that district reported from twice to three times their normal November rainfall, and deep soil water was generally restored. Many wells and springs that were dry in September and October were replenished, and the surface water supply was excessive. In the eastern portion of the State there were four periods of heavy rains due to a succession of coast storms, and fields and unimproved roads were muddy excepting the last week. However the early maturity of crops, and the favorable weather for field work in October left little to be finished in November. Corn husking and potato digging were nearly finished in October. Winter grains did not grow much after the 10th, but all excepting the latest seedings had become fairly well established by that time, and were looking good. The heavy rains of the 9th and 10th were attended by severe gales in the eastern portion of the State. Many buildings were damaged, and many large trees uprooted. Traffic was badly delayed during the storm, and four persons were killed in Philadelphia and vicinity. The cold wave of the 27th and 28th came in with gales that were almost as severe as the storm of the 9th and 10th. Wind velocities exceeded 40 miles per hour at Philadelphia in each of these storms. The month as a whole was thoroughly disagreeable, especially in the eastern portion of the State, but heavy rains were badly needed to make up for a large accumulated deficiency, and to replenish the surface water supply for the winter season.

### TEMPERATURE.

The mean temperature for the State, as shown by the reports from 88 stations, was 39.4°, which is 1.8° below the November normal. The highest monthly mean was 46.8°, at Marcus Hook,

and the lowest 32.6°, at Gouldsboro. Extremes for the month ranged from a maximum of 75° at Elk Lick and Uniontown on the 7th, to a minimum of -2° at Kane (near) on the 27th. The greatest daily range in temperature was 46°, occurring at Clearfield, Stroudsburg and Ridgway on the 30th.

### PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from the observations of 147 stations, was 4.75 inches, which is 1.89 inches above the November normal. The greatest monthly amount was 9.11 inches at Doylestown, while the least, 2.30 inches, was recorded at Clymer. The greatest amount recorded in any 24 consecutive hours was 3.58 inches at Gordon on the 1st. Snowfall averaged 0.3 inch, compared with a normal November amount of 2.5 inches. The greatest monthly total snow was 3.7 inches at Bradford, at which station the greatest 24-hour snowfall for the month, 2.5 inches, fell on the 13th.

### COMPARATIVE DATA FOR NOVEMBER

| Year            | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                 | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....       | 42.2        | 79      | 4      | 3.37          | 6.22     | 1.99  | 9           | 7             | 14     | 11                     |
| 1889.....       | 41.8        | 73      | 10     | 6.72          | 10.16    | 2.72  | 5           | 8             | 17     | 15                     |
| 1890.....       | 41.8        | 78      | 10     | 1.49          | 4.29     | 0.78  | 9           | 10            | 11     | 8                      |
| 1891.....       | 39.7        | 76      | 6      | 2.65          | 5.70     | 1.09  | 9           | 8             | 13     | 9                      |
| 1892.....       | 39.0        | 80      | 10     | 4.34          | 7.08     | 1.61  | 6           | 8             | 16     | 12                     |
| 1893.....       | 39.2        | 68      | -4     | 2.93          | 5.69     | 1.16  | 8           | 11            | 11     | 8                      |
| 1894.....       | 38.2        | 74      | 6      | 2.50          | 3.64     | 0.74  | 10          | 9             | 12     | 9                      |
| 1895.....       | 42.9        | 78      | 6      | 2.48          | 5.73     | 0.97  | 10          | 8             | 11     | 10                     |
| 1896.....       | 46.0        | 83      | 12     | 3.55          | 8.05     | 0.82  | 8           | 9             | 13     | 10                     |
| 1897.....       | 41.6        | 76      | 2      | 5.28          | 7.04     | 2.37  | 6           | 8             | 16     | 14                     |
| 1898.....       | 40.0        | 73      | 2      | 4.03          | 7.34     | 1.44  | 8           | 9             | 13     | 11                     |
| 1899.....       | 41.5        | 72      | 8      | 2.66          | 4.86     | 0.61  | 10          | 8             | 12     | 7                      |
| 1900.....       | 43.5        | 79      | 7      | 4.10          | 6.92     | 1.67  | 6           | 9             | 15     | 12                     |
| 1901.....       | 36.0        | 76      | 7      | 2.56          | 5.00     | 1.23  | 7           | 8             | 15     | 8                      |
| 1902.....       | 47.3        | 78      | 9      | 1.53          | 3.02     | 0.50  | 10          | 8             | 12     | 8                      |
| 1903.....       | 36.9        | 78      | 0      | 2.18          | 5.33     | 0.88  | 11          | 8             | 11     | 7                      |
| 1904.....       | 38.8        | 79      | -4     | 1.14          | 3.31     | 0.14  | 10          | 9             | 11     | 6                      |
| 1905.....       | 39.1        | 68      | 5      | 2.47          | 3.72     | 1.08  | 11          | 8             | 11     | 9                      |
| 1906.....       | 41.5        | 80      | 9      | 1.48          | 3.08     | 0.54  | 12          | 6             | 12     | 8                      |
| 1907.....       | 39.8        | 70      | 4      | 3.60          | 7.52     | 1.05  | 13          | 8             | 9      | 10                     |
| 1908.....       | 41.2        | 75      | -2     | 0.90          | 1.97     | 0.20  | 12          | 8             | 10     | 5                      |
| 1909.....       | 46.4        | 80      | 15     | 1.40          | 3.97     | 0.26  | 12          | 8             | 19     | 7                      |
| 1910.....       | 36.8        | 68      | 9      | 2.45          | 5.63     | 0.33  | 4           | 7             | 10     | 11                     |
| 1911.....       | 37.8        | 77      | 7      | 2.84          | 5.68     | 0.99  | 7           | 7             | 16     | 10                     |
| 1912.....       | 43.0        | 81      | 7      | 2.17          | 4.83     | 0.61  | 10          | 8             | 12     | 7                      |
| 1913.....       | 43.9        | 79      | 10     | 3.05          | 6.34     | 1.43  | 10          | 5             | 15     | 11                     |
| 1914.....       | 40.6        | 81      | -2     | 1.76          | 4.27     | 0.57  | 12          | 9             | 9      | 6                      |
| 1915.....       | 42.1        | 79      | 13     | 2.28          | 5.32     | 0.22  | 10          | 9             | 11     | 10                     |
| 1916.....       | 41.3        | 79      | 4      | 2.27          | 7.97     | 0.88  | 13          | 6             | 11     | 9                      |
| 1917.....       | 37.6        | 69      | -5     | 0.63          | 1.37     | 0.12  | 14          | 7             | 9      | 5                      |
| 1918.....       | 42.1        | 76      | 11     | 2.03          | 4.07     | 0.44  | 12          | 6             | 12     | 7                      |
| 1919.....       | 41.2        | 76      | 11     | 5.35          | 8.45     | 1.84  | 11          | 7             | 12     | 12                     |
| 1920.....       | 40.3        | 75      | 5      | 3.54          | 6.42     | 1.85  | 7           | 7             | 16     | 11                     |
| 1921.....       | 42.3        | 80      | 3      | 5.75          | 9.14     | 3.20  | 5           | 7             | 18     | 16                     |
| 1922.....       | 42.9        | 73      | 12     | 1.21          | 4.52     | 0.23  | 10          | 7             | 13     | 9                      |
| 1923.....       | 40.7        | 70      | 10     | 2.83          | 6.84     | 1.55  | 12          | 5             | 13     | 10                     |
| 1924.....       | 40.7        | 78      | -9     | 1.54          | 3.29     | 0.56  | 12          | 8             | 10     | 7                      |
| 1925.....       | 39.5        | 71      | 4      | 3.56          | 6.07     | 1.50  | 11          | 7             | 12     | 10                     |
| 1926.....       | 40.4        | 79      | -1     | 4.49          | 9.84     | 2.00  | 9           | 7             | 14     | 10                     |
| 1927.....       | 46.2        | 85      | 10     | 4.95          | 11.36    | 2.21  | 7           | 7             | 16     | 14                     |
| 1928.....       | 43.4        | 81      | 4      | 2.32          | 5.71     | 1.05  | 7           | 8             | 15     | 12                     |
| 1929.....       | 41.1        | 81      | -10    | 3.39          | 5.07     | 1.89  | 8           | 8             | 14     | 12                     |
| 1930.....       | 42.0        | 75      | -15    | 1.48          | 4.29     | 0.22  | 10          | 7             | 13     | 9                      |
| 1931.....       | 49.2        | 80      | 12     | 1.52          | 4.42     | 0.36  | 10          | 8             | 12     | 9                      |
| 1932.....       | 39.4        | 75      | -2     | 4.75          | 9.11     | 2.30  | 12          | 7             | 11     | 10                     |
| Normal and..... | 41.2        | .....   | .....  | 2.86          | .....    | ..... | 9           | 8             | 13     | 10                     |
| Extremes.....   | .....       | 85      | -15    | .....         | 11.36    | 0.12  | .....       | .....         | .....  | .....                  |



## Climatological Data for November, 1932

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |                 |                 |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|-----------------|-----------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date            | Lowest          | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |                 |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 20                      | 38.9                         | .....                     | 60              | 16              | 12              | 27   | 37                       | 7.05  | +4.37                     | 1.59                 | T.                        | 11                           | 18    | 4          | 8                            | ne.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 37.8                         | -2.6                      | 60              | 16 <sup>†</sup> | 5               | 27   | 42                       | 3.71  | +1.48                     | 1.00                 | 0.2                       | 11                           | 22    | 2          | 6                            | w.        | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | ...                     | 41.6 <sup>a</sup>            | -2.6                      | 65 <sup>a</sup> | 16              | 10 <sup>a</sup> | 27   | 34 <sup>a</sup>          | 8.51  | +4.97                     | 2.36                 | 0                         | 10                           | ...   | ...        | ...                          | ...       | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 38.6                         | .....                     | 68              | 8               | 13              | 27   | 38                       | 6.70  | .....                     | 2.40                 | 0                         | 8                            | 18    | 2          | 10                           | n.        | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | ...                     | 39.1                         | .....                     | 62              | 5 <sup>†</sup>  | 8               | 28   | 41                       | 4.01  | .....                     | 1.56                 | T.                        | 8                            | 15    | 2          | 13                           | nw.       | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 36.4                         | -5.0                      | 59              | 15              | 7               | 27   | 40                       | 3.45  | +1.34                     | 1.37                 | 0.1                       | 9                            | 8     | 8          | 14                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 42.4                         | -1.8                      | 61              | 15 <sup>†</sup> | 12              | 27   | 35                       | 7.03  | +3.93                     | 2.01                 | T.                        | 8                            | 11    | 7          | 12                           | w.        | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 38.5                         | -2.6                      | 59              | 1               | 13              | 27   | 35                       | 5.41  | +2.30                     | 1.64                 | T.                        | 9                            | 16    | 4          | 10                           | nw.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 39.7                         | -2.7                      | 62              | 16              | 9               | 29   | 36                       | 3.44  | +0.70                     | 1.40                 | T.                        | 9                            | 18    | 2          | 10                           | ...       | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 36                      | ...                          | ...                       | ...             | ...             | ...             | ...  | ...                      | 3.92  | +1.66                     | 1.46                 | T.                        | 8                            | 16    | 1          | 13                           | ...       | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 40.4                         | -1.5                      | 61              | 5               | 11              | 29   | 38                       | 4.65  | +1.95                     | 1.78                 | 0                         | 9                            | 11    | 9          | 10                           | ne.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | 38.9                         | -1.9                      | 72              | 7               | 5               | 27   | 46                       | 3.90  | +0.85                     | 1.20                 | 2.0                       | 8                            | 8     | 12         | 10                           | nw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 45                      | 41.2                         | -1.6                      | 64              | 16              | 13              | 27   | 37                       | 7.42  | +4.26                     | 2.08                 | T.                        | 8                            | 14    | 6          | 10                           | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 38.7                         | -2.9                      | 62              | 16              | 10              | 29   | 32                       | 5.14  | +2.56                     | 1.95                 | T.                        | 9                            | 17    | 3          | 10                           | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 36.9                         | -2.3                      | 59              | 16              | 4               | 27   | 38                       | 5.08  | +2.19                     | 1.27                 | 0.5                       | 13                           | 10    | 7          | 13                           | nw.       | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 42.2                         | -0.7                      | 63              | 16              | 14              | 27   | 33                       | 4.71  | +2.24                     | 1.65                 | 0                         | 8                            | 14    | 5          | 11                           | n.        | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 36.4                         | -0.6                      | 60              | 16              | 3               | 27   | 35                       | 6.56  | +2.88                     | 2.52                 | 0.8                       | 12                           | 13    | 3          | 14                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 43.4                         | +0.2                      | 64              | 16              | 12              | 27   | 33                       | 8.62  | +6.03                     | 2.59                 | 0                         | 8                            | 13    | 4          | 13                           | nw.       | Prof. N. W. Swayne          |
| Gottysburg         | Adams        | 553             | 59                      | 42.4                         | +0.4                      | 64              | 5               | 15              | 27   | 35                       | 7.05  | +4.35                     | 2.30                 | T.                        | 10                           | 13    | 9          | 8                            | n.        | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 28                      | 38.6                         | -1.0                      | 61              | 15              | 7               | 29   | 38                       | 6.60  | +3.46                     | 3.58                 | 0                         | 8                            | 16    | 3          | 11                           | w.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 32.6                         | .....                     | 54              | 7 <sup>†</sup>  | 0               | 27   | 43                       | 6.34  | +3.07                     | 2.25                 | 0                         | 7                            | 13    | 5          | 12                           | nw.       | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 39                      | 38.6 <sup>a</sup>            | -3.3                      | 59 <sup>a</sup> | 3               | 13 <sup>a</sup> | 27   | 33 <sup>a</sup>          | 6.05  | +3.17                     | 2.08                 | 0                         | 9                            | 11    | 12         | 7                            | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 43.8                         | -0.8                      | 67              | 15              | 15              | 27   | 35                       | 5.27  | +3.13                     | 1.65                 | T.                        | 9                            | 16    | 3          | 11                           | s.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 41.0                         | -1.6                      | 62              | 16              | 17              | 27   | 32                       | 4.88  | +2.62                     | 1.88                 | T.                        | 11                           | 10    | 10         | 10                           | w.        | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 36.6                         | -2.9                      | 60              | 16              | 3               | 28   | 40                       | 5.31  | +2.59                     | 1.64                 | 0.1                       | 9                            | 15    | 5          | 10                           | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 44.5                         | -0.3                      | 64              | 6               | 19              | 27   | 27                       | 4.69  | +2.37                     | 1.41                 | 0                         | 10                           | 14    | 6          | 10                           | ...       | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 38.7                         | -3.0                      | 62              | 15              | 7               | 29   | 42                       | 4.52  | +2.14                     | 1.44                 | 0                         | 8                            | 13    | 6          | 11                           | nw.       | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 40.5                         | -1.8                      | 67              | 16              | 9               | 27   | 43                       | 3.84  | +1.90                     | 1.44                 | T.                        | 10                           | 11    | 2          | 17                           | ...       | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 38.0                         | -5.4                      | 62              | 6               | 8               | 28   | 36                       | 4.13  | +1.60                     | 1.47                 | 0                         | 7                            | 17    | 6          | 7                            | n.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 37.4 <sup>b</sup>            | -1.6                      | 62 <sup>b</sup> | 16              | 8 <sup>b</sup>  | 28   | 41 <sup>b</sup>          | 3.85  | +1.02                     | 1.10                 | 1.0                       | 5                            | 9     | 9          | 12                           | ...       | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 40.3                         | -2.2                      | 62              | 16              | 14              | 27   | 36                       | 4.07  | +1.18                     | 0.99                 | T.                        | 9                            | 13    | 8          | 9                            | ne.       | S. B. Benzling.             |
| Lewisburg          | Union        | 450             | 56                      | 40.0                         | -0.5                      | 63              | 16              | 10              | 29   | 42                       | 3.95  | +1.35                     | 1.54                 | T.                        | 8                            | 13    | 5          | 12                           | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 40.2                         | -1.7                      | 61              | 17              | 10              | 27   | 35                       | 3.38  | +0.97                     | 1.20                 | T.                        | 13                           | 6     | 13         | 11                           | ne.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 39.8                         | -2.0                      | 63              | 16              | 5               | 28   | 44                       | 4.53  | +1.21                     | 2.00                 | 0                         | 8                            | 11    | 12         | 7                            | sw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 46.8                         | .....                     | 67              | 16              | 16              | 27   | 29                       | 7.25  | .....                     | 2.05                 | 0                         | 8                            | 21    | 3          | 6                            | ne.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 36.2                         | -4.8                      | 63              | 8               | 10              | 27   | 39                       | 7.37  | +3.93                     | 2.82                 | T.                        | 8                            | 18    | 2          | 10                           | n.        | R. K. Wintermute.           |
| Millintown         | Juniata      | 445             | 28                      | 40.4                         | -1.0                      | 62              | 16              | 9               | 29   | 43                       | 4.74  | +2.54                     | 1.78                 | 0                         | 7                            | 15    | 4          | 11                           | w.        | W. H. Manbeck.              |
| Montrose           | Susquehanna  | 1,720           | 28                      | 35.8                         | -1.6                      | 56              | 12              | 0               | 27   | 41                       | 3.06  | +0.40                     | 1.20                 | T.                        | 7                            | 9     | 7          | 14                           | s.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | ...                          | ...                       | ...             | ...             | ...             | ...  | ...                      | 4.68  | +1.58                     | 1.99                 | T.                        | 7                            | 17    | 4          | 9                            | n.        | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 37.0                         | -2.5                      | 59              | 16              | 8               | 28   | 38                       | 4.68  | +1.58                     | 1.99                 | T.                        | 7                            | 17    | 4          | 9                            | n.        | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 43                      | 41.0                         | -1.2                      | 65              | 5 <sup>†</sup>  | 13              | 27   | 35                       | 8.18  | +5.76                     | 2.90                 | T.                        | 8                            | 15    | 6          | 9                            | w.        | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 398             | 14                      | 38.9                         | .....                     | 61              | 8               | 9               | 29   | 38                       | 7.05  | +4.16                     | 2.18                 | T.                        | 12                           | 14    | 5          | 11                           | ne.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 45.8                         | +0.1                      | 67              | 16              | 16              | 27   | 38                       | 7.45  | +4.75                     | 2.31                 | T.                        | 11                           | 11    | 9          | 10                           | n.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 8                       | 45.0                         | .....                     | 65              | 16              | 15              | 27   | 29                       | 7.78  | .....                     | 2.10                 | T.                        | 8                            | 9     | 11         | 10                           | ...       | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 43.5                         | -2.2                      | 65              | 16              | 15              | 27   | 30                       | 7.90  | +5.55                     | 2.20                 | T.                        | 10                           | 10    | 6          | 14                           | nw.       | Commandant Navy Yard.       |
| Phoenixville       | Chester      | 100             | 22                      | 42.8                         | -0.5                      | 64              | 2               | 12              | 27   | 35                       | 8.82  | +5.95                     | 3.00                 | 0                         | 7                            | 15    | 8          | 7                            | w.        | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 39.9                         | -1.3                      | 61              | 19              | 10              | 29   | 34                       | 7.94  | +4.80                     | 2.24                 | T.                        | 7                            | 12    | 10         | 8                            | n.        | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 41.6                         | -0.9                      | 62              | 16              | 14              | 27   | 33                       | 5.71  | +2.98                     | 1.43                 | T.                        | 11                           | 10    | 8          | 12                           | nw.       | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 38.4                         | -2.1                      | 64              | 16              | 8               | 27   | 38                       | 4.40  | +1.63                     | 1.29                 | T.                        | 8                            | 7     | 10         | 13                           | n.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 39.8                         | -1.9                      | 60              | 16              | 12              | 29   | 38                       | 4.02  | +1.26                     | 1.92                 | T.                        | 7                            | 14    | 8          | 8                            | nw.       | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 36                      | 43.0                         | -1.8                      | 64              | 5               | 9               | 27   | 32                       | 8.03  | +5.21                     | 2.22                 | 0                         | 9                            | 7     | 11         | 12                           | nw.       | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 37.3                         | -2.5                      | 57              | 16              | 9               | 27   | 33                       | 3.87  | +1.46                     | 1.31                 | T.                        | 10                           | 9     | 13         | 8                            | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 37.5                         | -3.0                      | 60              | 25              | 6               | 29   | 46                       | 8.11  | +4.83                     | 2.12                 | T.                        | 10                           | 13    | 4          | 13                           | nw.       | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 37.8                         | -1.8                      | 62              | 16              | 8               | 28   | 35                       | 3.51  | +1.34                     | 1.02                 | T.                        | 9                            | 3     | 10         | 17                           | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 35.9                         | -1.6                      | 60              | 15              | 5               | 28   | 44                       | 3.58  | +0.96                     | 1.14                 | T.                        | 8                            | 11    | 10         | 9                            | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 83                      | 43.2                         | +0.3                      | 64              | 16              | 13              | 27   | 30                       | 7.64  | +4.11                     | 2.28                 | 0                         | 9                            | 14    | 8          | 8                            | n.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 38.5                         | -2.6                      | 58              | 7 <sup>†</sup>  | 12              | 28   | 31                       | 3.64  | +1.06                     | 1.29                 | 0                         | 10                           | 12    | 6          | 12                           | ne.       | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 39.8                         | -3.2                      | 59              | 11              | 11              | 29   | 27                       | 4.89  | +2.40                     | 1.46                 | T.                        | 10                           | 13    | 9          | 8                            | nw.       | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |                 |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam         | Beaver       | 700             | 40                      | 39.9                         | -3.4                      | 63              | 7 <sup>†</sup>  | 11              | 27   | 32                       | 3.90  | +1.35                     | 1.02                 | ...                       | 10                           | 8     | 5          | 17                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | 35.0                         | -3.9                      | 56              | 4 <sup>†</sup>  | 2               | 27   | 35                       | 4.31  | +0.86                     | 0.90                 | 3.7                       | 17                           | 13    | 1          | 16                           | sw.       | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 35.9                         | -1.6                      | 62              | 5               | 4               | 29   | 42                       | 4.43  | +1.42                     | 1.03                 | ...                       | 10                           | 18    | 2          | 10                           | ...       | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 38.6                         | .....                     | 64              | 6               | 7               | 27   | 36                       | 3.72  | +0.84                     | 1.20                 | T.                        | 6                            | 12    | 12         | 6                            | w.        | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 2                       | 38.9                         | -2.2                      | 63              | 4               | 4               | 27   | 37                       | 3.92  | +0.97                     | 1.17                 | 0.8                       | 11                           | 11    | 1          | 18                           | w.        | John E. Lewis.              |
| Clairton           | Allegheny    | 1,020           | ...                     | 38.0                         | .....                     | 65              | 7 <sup>†</sup>  | 5               | 27   | 36                       | 3.39  | .....                     | 1.06                 | T.                        | 7                            | 9     | 7          | 14                           | s.        | Carnegie Steel Co.          |



## Day of month

Continued on page 54.



## Daily Precipitation for November, 1932—Continued from page 53

| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |      |      |      |     |     |     |    |    |    |     |     |      |      |     |     |     |     |     |     |     |     |    |    |    | Total |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|----|----|----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-------|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10   | 11  | 12  | 13  | 14 | 15 | 16 | 17  | 18  | 19   | 20   | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29 | 30 | 31 |       |
| Ohio Drainage.  |                |              |     |     |     |     |     |     |      |      |      |     |     |     |    |    |    |     |     |      |      |     |     |     |     |     |     |     |     |    |    |    |       |
| Beaver Dam      | Ohio           | 1.02         |     |     |     | .02 | .08 | .05 |      |      | .93  | .01 | .02 |     |    |    |    | .78 | .85 | .14  |      |     |     |     |     |     |     |     |     |    |    |    | 3.90  |
| Beaver Falls    | Beaver         | .69          |     |     |     | .01 | .03 | .06 |      |      | .79  | T.  | T.  |     |    |    |    | .74 | .78 | .11  |      |     |     |     |     | .04 |     |     |     |    |    |    | 3.25  |
| Bradford        | Allegheny      | .85          | .12 |     |     | .13 | .11 | .12 |      | .80  | .60  | .05 | .04 | .06 |    |    |    | .27 | .16 | .03  | .90  | T.  | .05 | .02 | .05 |     |     |     | T.  |    |    |    | 4.36  |
| Brookville      | do.            | .91          | T.  | .06 |     | .10 | .15 | .21 |      |      | 1.03 |     | .04 |     |    |    |    | .49 | .48 | .96  |      |     |     |     |     |     |     |     |     |    |    |    | 4.43  |
| Butler          | Ohio           | .80          |     |     |     | .08 | .06 |     |      |      | .94  |     |     |     |    |    |    | .64 |     | 1.20 | T.   |     |     |     |     |     |     |     |     |    |    |    | 3.72  |
| Chambersville   | Allegheny      | .80          |     |     |     | .19 | .03 | .05 |      | .77  | .34  |     |     | .03 |    |    |    | .29 | .22 | 1.17 |      |     |     |     | .03 |     |     |     |     |    |    |    | 3.92  |
| Clairton        | Monongahela    | .58          |     |     |     | .08 | T.  |     |      | 1.06 | T.   | T.  | T.  |     |    |    |    | .93 | .08 | .65  |      |     |     |     | .01 |     |     | T.  |     |    |    |    | 3.39  |
| Claysville      | Ohio           | .67          |     |     |     | .14 | .01 |     |      | .97  | .31  | .01 | T.  | .01 |    |    |    | .98 | .01 | .03  | 1.07 |     |     |     | .04 |     |     | T.  |     |    |    |    | 4.25  |
| Clymer          | Conemaugh      |              |     |     |     | .10 |     |     |      | .80  |      |     | .03 |     |    |    |    | .80 |     | .65  | .42  |     |     |     |     |     |     |     |     |    |    |    | 2.30  |
| Confluence      | Youghiogheny   | .46          |     |     |     | T.  | .05 | .06 |      | .80  |      |     | T.  | T.  |    |    |    | .35 | .55 | .26  | T.   |     |     |     |     |     |     |     | .18 |    |    |    | 2.71  |
| Corry           | Allegheny      | .95          | .22 | .18 |     | .21 |     | .05 |      | .59  | .33  | .17 | .06 | .07 |    |    |    | .42 | .27 | .27  | .59  |     |     |     | .21 |     |     |     | T.  |    |    |    | 4.59  |
| Coudersport     | Allegheny      | .05          | .04 |     | .05 | .05 | .26 |     | .02  | 1.51 |      | .02 | T.  | .04 |    |    |    | .27 |     | .70  | .45  |     |     | .07 |     |     |     | T.  |     |    |    |    | 3.53  |
| Derry           | Conemaugh      | .50          |     |     |     | .09 |     |     |      | .62  | .34  |     |     | T.  |    |    |    | .47 | T.  |      | .94  |     |     |     | .04 |     |     |     |     |    |    |    | 3.00  |
| Donora          | Monongahela    | .70          | T.  |     |     | .04 | .02 |     | T.   | .10  | .95  | T.  | T.  |     |    |    |    | T.  | .85 | .82  | .11  |     |     |     | T.  |     |     | T.  |     |    |    |    | 3.59  |
| Ebensburg       | Conemaugh      | .40          |     |     |     | .09 |     | .08 | .01  | .28  | .46  | T.  |     | .05 |    |    |    | T.  | .17 | .80  | .02  |     |     |     |     |     |     |     |     |    |    |    | 2.36  |
| Elk Lick        | Youghiogheny   |              | .50 |     |     | .18 |     |     |      | .80  | .40  |     | .10 |     |    |    |    |     |     | 1.45 |      |     |     |     |     |     |     |     |     |    |    |    | 3.43  |
| Falls Creek     | Allegheny      |              |     |     |     | .98 | .12 | .14 |      |      | .92  | .19 | T.  | .04 |    |    |    | .70 |     | .90  | .20  |     |     |     | .09 |     |     | T.  |     |    |    |    | 5.35  |
| Franklin        | Allegheny      | .94          | .07 | .06 |     | .11 | .10 | T.  |      |      | 1.21 | .02 | .01 | T.  |    |    |    | .65 | .76 | .32  |      |     |     |     | .15 |     |     |     |     |    |    |    | 3.98  |
| Freeport        | do.            | .65          |     |     |     | .11 | .10 |     |      |      | 1.21 | .02 | .01 | T.  |    |    |    | .65 | .76 | .32  |      |     |     |     | .15 |     |     |     |     |    |    |    | 3.98  |
| Greensboro      | Monongahela    | .70          |     |     | .03 | .04 |     |     |      | .98  | T.   | .01 | T.  |     |    |    |    | .70 | .53 | .47  |      |     |     |     | .02 |     |     |     | .14 |    |    |    | 3.62  |
| Greensburg      | Youghiogheny   | .48          |     |     | .14 | .02 |     |     |      | .60  | .31  | T.  | T.  | T.  |    |    |    | .69 |     | .90  |      |     |     |     |     |     |     | T.  |     |    |    |    | 3.14  |
| Greenville      | Beaver         | .38          | T.  | .04 |     |     | .20 |     |      | .78  | .14  | .20 | .04 | .05 |    |    |    | .53 | .11 | 1.00 |      |     |     |     |     |     |     |     |     |    |    |    | 3.47  |
| Grove City      | do.            | .83          | .03 | .01 |     | .17 |     | .11 |      | .52  | .30  | .15 | .03 | .05 |    |    |    | .60 |     | .88  | T.   |     |     |     | .03 |     |     | T.  |     |    |    |    | 3.71  |
| Herr's Isl. Dam | Ohio           | .65          |     |     | .03 | T.  | .01 |     |      | .92  | T.   | T.  | T.  |     |    |    |    | .68 | .71 | .27  |      |     |     |     | .02 |     |     |     |     |    |    |    | 3.29  |
| Ingram          | Ohio           | .74          |     |     | .12 | .01 |     |     |      | .86  | .22  | .01 | T.  | T.  |    |    |    | .72 | .01 | .01  | 1.05 | T.  |     |     | .03 |     |     | T.  |     |    |    |    | 3.78  |
| Irwin           | Monongahela    | .65          |     |     | .22 |     | .06 |     |      | .61  | .27  | .05 |     |     |    |    |    | .57 | .10 | .48  |      |     |     |     | .01 |     |     |     |     |    |    |    | 3.02  |
| Johnstown       | Conemaugh      | .56          |     |     | .05 |     | .01 |     |      | .45  | .37  | .05 | .01 | .02 |    |    |    | .29 | .02 | .97  |      |     |     |     | .02 | .06 |     | .02 |     |    |    |    | 2.90  |
| Kane (near)     | Allegheny      | 1.30         | .04 | .10 |     | .26 | .39 |     |      | .26  | .95  | .08 | .48 | .42 |    |    |    | .04 | .30 | 1.33 | .02  | T.  | .23 | T.  | .06 |     |     |     |     |    |    |    | 6.26  |
| Keglar          | Youghiogheny   |              |     |     | .02 | .08 | .01 |     | T.   | .92  | T.   | T.  | T.  | T.  |    |    |    | .52 |     | .17  | .42  |     |     |     | .03 |     |     |     | .20 |    |    |    | 2.37  |
| Lake Lynn       | Monongahela    | .62          |     |     | .02 | .06 |     |     |      | .93  |      | .05 |     |     |    |    |    | .59 | .42 | .45  |      |     |     |     | .01 |     |     |     | .20 |    |    |    | 3.35  |
| Linesville      | Beaver         | .54          | .07 | .04 |     | .17 | .05 |     |      | .01  | .87  | .16 | .04 |     |    |    |    | T.  | .45 | T.   | .60  | .01 |     |     | .13 |     |     |     |     |    |    |    | 3.14  |
| Lock No. 2      | Ohio           | .68          |     |     | .07 | .07 | .01 |     |      |      | .94  | .01 | T.  |     |    |    |    | .77 |     | .85  | .28  |     |     |     | .13 |     |     |     | .01 |    |    |    | 3.82  |
| Lock No. 4      | Monongahela    | .79          | T.  |     | .02 | .02 |     |     |      | 1.10 | T.   | T.  | T.  | T.  |    |    |    | .90 |     | .56  | .41  |     |     |     | T.  |     |     | T.  |     |    |    |    | 3.80  |
| Lycippus        | Conemaugh      | .48          |     |     | .11 | .03 |     |     |      | .62  | .36  |     | T.  | T.  |    |    |    | .40 | .20 | .90  |      |     |     |     | .01 |     |     |     |     |    |    |    | 3.10  |
| McKeesport      | Monongahela    | .62          |     |     | .03 | .04 |     |     |      | 1.09 | T.   |     |     |     |    |    |    | .92 | .43 | .33  |      |     |     |     | .01 |     |     |     |     |    |    |    | 3.47  |
| Meadville       | Allegheny      | .97          | .08 |     | .17 | T.  | .10 |     |      | .46  | .31  | .22 | .02 | .03 |    |    |    | .28 | .13 | .81  |      |     |     |     | .12 |     |     |     |     |    |    |    | 3.70  |
| Mount Lebanon   | Ohio           | .72          |     |     | .10 | .02 |     |     |      | .81  | .31  | T.  | T.  | .01 |    |    |    | .83 | .03 | 1.22 |      |     |     |     | .02 |     |     | T.  |     |    |    |    | 4.10  |
| Natrona         | Allegheny      | .68          |     |     | .08 | .04 | .01 |     |      | 1.10 | .02  | .01 | T.  |     |    |    |    | .73 | .76 | .36  |      |     |     |     | .02 |     |     |     |     |    |    |    | 3.81  |
| New Castle      | Beaver         | 1.00         |     | .01 | .10 | .05 | .16 |     |      | .93  | .16  | .02 | T.  |     |    |    |    | .61 | .94 | .11  |      |     |     |     | .04 |     |     |     | .01 |    |    |    | 4.14  |
| Newell          | Monongahela    | .82          |     |     | .05 |     |     |     |      | 1.00 |      |     |     |     |    |    |    | .83 |     | .88  |      |     |     |     |     |     |     |     | .03 |    |    |    | 3.61  |
| Parkers Landing | Allegheny      | .83          | .02 | .01 |     | .04 | T.  | .21 |      | .94  | T.   | T.  | T.  | T.  |    |    |    | .51 |     | .92  | .25  |     | T.  |     | .03 |     |     |     |     |    |    |    | 3.76  |
| Pennline        | Beaver         | .53          | .04 | .03 |     | .19 | .01 | .05 |      | .75  | .15  | .06 | .03 |     |    |    |    | .01 | .56 | .64  |      |     |     |     | .18 |     |     |     | T.  |    |    |    | 3.23  |
| Pittsburgh      | Ohio           | .46          |     |     | .04 | T.  |     |     |      | 1.02 | .01  | T.  |     | T.  |    |    |    | .68 |     | .05  | .94  |     |     |     | T.  | .02 |     |     | T.  |    |    |    | 3.22  |
| Punxsutawney    | Allegheny      |              |     |     |     |     |     |     | .12  | .27  | .46  |     |     | T.  |    |    |    | .62 |     | .82  | .22  |     |     |     |     |     |     |     |     |    |    |    | 2.41  |
| Ridgway         | do.            | .95          | .11 | .10 |     | .21 | .25 | .29 | T.   | 1.11 |      |     | T.  | .06 | T. |    |    | .26 | .85 | .25  |      | T.  | T.  |     | .03 |     |     |     |     |    |    |    | 4.47  |
| Saltsburg       | Conemaugh      | .60          |     |     | .10 | .08 | .01 |     |      | .93  |      |     |     |     |    |    |    | .79 | .54 | .36  |      |     |     |     | .12 |     |     |     |     |    |    |    | 3.53  |
| Sharon          | Beaver         | .80          | T.  | T.  | .04 | .04 | .01 |     |      | .81  | .12  | T.  | T.  |     |    |    |    | .48 | .77 | .02  |      |     |     |     | .08 |     |     |     |     |    |    |    | 3.17  |
| Smethport       | Allegheny      | 1.10         | .05 | .03 |     | .18 | .01 | .21 |      | 1.50 |      | .02 | T.  |     |    |    |    | .37 |     | .96  | .02  |     | T.  |     |     |     |     |     |     |    |    |    | 4.45  |
| Somerset        | Youghiogheny   | .45          |     |     | .05 | T.  | T.  |     |      | .51  | .40  | .01 | T.  |     |    |    |    | .14 | .11 | .89  |      |     |     |     |     | T.  | .14 |     |     |    |    |    | 2.70  |
| Springdale      | Allegheny      | .71          |     |     | .11 | .02 | .01 |     |      | 1.02 | .02  |     |     |     | T. |    |    | .71 |     | .73  | .30  | .07 |     |     | .03 |     |     |     | .01 |    |    |    | 3.74  |
| Uniontown       | Monongahela    | .69          |     |     | .14 |     | .01 |     |      | .82  |      | .33 | T.  |     |    |    |    | .70 |     | .71  |      |     |     |     | .03 |     |     |     | .25 |    |    |    | 3.68  |
| Unity Reservoir | Youghiogheny   | .57          |     |     | .15 |     |     |     |      | .66  | .31  | T.  | T.  | T.  |    |    |    | .48 | .18 | .87  |      |     |     |     | .02 |     |     |     |     |    |    |    | 3.24  |
| Vandergrift     | Conemaugh      | .65          |     |     |     |     |     |     | 1.14 | .05  | T.   |     |     |     |    |    |    | .55 |     | .20  |      |     |     |     |     |     |     |     |     |    |    |    | 2.59  |
| Warren          | Allegheny      | .87          | .10 | .17 |     | .18 | .08 |     |      | .40  | .70  | .08 | .09 | .27 |    |    |    | .25 | .47 | .90  |      |     |     | .02 | .02 | .10 |     |     |     |    |    |    | 4.70  |
| Waynesburg      | Monongahela    | .62          |     |     |     | .05 |     |     |      | .88  | .25  |     | T.  |     |    |    |    | .85 |     | 1.05 |      |     |     |     |     |     |     |     | .12 |    |    |    | 3.82  |
| Westford        | Beaver         |              | .02 |     | .18 |     |     | .10 |      | .94  |      | .03 |     |     |    |    |    | .04 |     | 1.10 |      |     |     |     | .23 |     |     |     |     |    |    |    | 2.64  |
| West Newton     | Youghiogheny   | .62          |     |     |     |     |     |     |      | .93  |      | .03 |     |     |    |    |    | .80 |     | .49  | .30  |     |     |     |     |     |     | T.  |     |    |    |    | 3.17  |
| Lake Drainage.  |                |              |     |     |     |     |     |     |      |      |      |     |     |     |    |    |    |     |     |      |      |     |     |     |     |     |     |     |     |    |    |    |       |
| Erie            | Lake Erie      | .36          | .32 |     | T.  | .13 | .08 |     |      | .57  | .10  | .14 | .08 | .02 |    |    | T. | .70 |     | .19  | .36  | T.  | T.  | T.  | .08 |     |     |     | T.  | T. |    |    | 3.13  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, New-  
ville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox. † Mdt. to mdt.

## SUNSHINE, HUMIDITY AND WINDS

| Stations | Sunshine |  |
|----------|----------|--|
|----------|----------|--|



Daily Temperatures for November, 1932

| Stations           | 1         | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|--------------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| Allentown.....     | Maximum.. | 59 | 51 | 51 | 54 | 58 | 52 | 55 | 59 | 49 | 56 | 56 | 38 | 38 | 49 | 58 | 60 | 46 | 48 | 54 | 37 | 49 | 35 | 39 | 49 | 55 | 45 | 32 | 33 | 48 | 52   | 48.8 |      |
|                    | Minimum.. | 37 | 36 | 38 | 27 | 29 | 36 | 40 | 49 | 41 | 41 | 33 | 34 | 32 | 25 | 28 | 26 | 28 | 29 | 30 | 29 | 28 | 31 | 19 | 21 | 25 | 29 | 12 | 15 | 13 | 15   | 29.0 |      |
| Altoona.....       | Maximum.. | 48 | 49 | 48 | 55 | 54 | 48 | 52 | 54 | 53 | 55 | 49 | 42 | 30 | 59 | 56 | 60 | 47 | 37 | 45 | 39 | 45 | 34 | 42 | 45 | 60 | 54 | 29 | 35 | 47 | 50   | 47.4 |      |
|                    | Minimum.. | 41 | 30 | 27 | 30 | 37 | 33 | 42 | 49 | 42 | 35 | 31 | 26 | 26 | 21 | 29 | 34 | 32 | 25 | 34 | 24 | 28 | 24 | 17 | 33 | 25 | 21 | 5  | 9  | 5  | 27   | 28.1 |      |
| Bedford.....       | Maximum.. | 50 | 52 | 52 | 59 | 62 | 57 | 53 | 56 | 55 | 56 | 55 | 46 | 33 | 53 | 61 | 61 | 51 | 41 | 45 | 43 | 47 | 33 | 44 | 56 | 62 | 57 | 81 | 88 | 48 | 53   | 50.8 |      |
|                    | Minimum.. | 41 | 28 | 27 | 31 | 33 | 30 | 46 | 50 | 43 | 35 | 29 | 28 | 28 | 24 | 25 | 29 | 35 | 25 | 37 | 28 | 28 | 27 | 17 | 23 | 22 | 25 | 10 | 8  | 7  | 18   | 27.9 |      |
| Bellefonte.....    | Maximum.. | 48 | 44 | 48 | 54 | 58 | 46 | 53 | 55 | 50 | 53 | 52 | 34 | 33 | 53 | 59 | 58 | 42 | 40 | 45 | 38 | 46 | 36 | 40 | 44 | 56 | 50 | 28 | 38 | 50 | 53   | 46.8 |      |
|                    | Minimum.. | 38 | 33 | 28 | 30 | 30 | 30 | 41 | 49 | 39 | 32 | 27 | 27 | 23 | 21 | 25 | 36 | 25 | 24 | 30 | 26 | 30 | 22 | 19 | 24 | 20 | 11 | 7  | 8  | 10 | 18   | 26.1 |      |
| Brookville.....    | Maximum.. | 57 | 49 | 45 | 53 | 62 | 58 | 56 | 58 | 55 | 55 | 54 | 49 | 30 | 53 | 57 | 58 | 60 | 43 | 43 | 43 | 38 | 41 | 32 | 52 | 41 | 54 | 85 | 33 | 44 | 49   | 47.9 |      |
|                    | Minimum.. | 23 | 32 | 29 | 28 | 25 | 23 | 41 | 46 | 40 | 28 | 29 | 28 | 23 | 23 | 25 | 30 | 25 | 25 | 25 | 27 | 26 | 27 | 14 | 15 | 19 | 16 | 5  | 8  | 4  | 7    | 23.9 |      |
| Butler.....        | Maximum.. | 46 | 46 | 53 | 63 | 61 | 64 | 62 | 62 | 60 | 52 | 41 | 40 | 30 | 55 | 59 | 58 | 42 | 46 | 44 | 44 | 42 | 33 | 52 | 62 | 55 | 50 | 29 | 40 | 45 | 51   | 49.2 |      |
|                    | Minimum.. | 39 | 32 | 30 | 27 | 49 | 28 | 42 | 53 | 48 | 30 | 27 | 24 | 24 | 25 | 29 | 30 | 32 | 26 | 33 | 28 | 24 | 26 | 20 | 24 | 19 | 26 | 7  | 9  | 11 | 20   | 28.1 |      |
| Carlisle.....      | Maximum.. | 59 | 48 | 49 | 55 | 55 | 55 | 55 | 56 | 56 | 56 | 52 | 48 | 35 | 46 | 46 | 56 | 56 | 40 | 47 | 47 | 46 | 40 | 42 | 42 | 54 | 50 | 33 | 33 | 46 | 46   | 47.9 |      |
|                    | Minimum.. | 24 | 34 | 30 | 25 | 31 | 33 | 47 | 53 | 43 | 43 | 31 | 32 | 32 | 21 | 24 | 30 | 40 | 25 | 36 | 29 | 28 | 28 | 17 | 26 | 21 | 27 | 13 | 15 | 14 | 22   | 29.1 |      |
| Catawissa.....     | Maximum.. | 56 | 54 | 52 | 55 | 56 | 46 | 58 | 60 | 58 | 56 | 54 | 43 | 42 | 52 | 58 | 62 | 50 | 48 | 50 | 41 | 48 | 39 | 39 | 48 | 55 | 53 | 33 | 35 | 39 | 55   | 50.2 |      |
|                    | Minimum.. | 44 | 35 | 30 | 26 | 35 | 37 | 41 | 53 | 42 | 34 | 30 | 31 | 32 | 28 | 26 | 32 | 26 | 36 | 29 | 30 | 23 | 12 | 33 | 32 | 21 | 11 | 10 | 9  | 21 | 29.2 |      |      |
| Chambersburg.....  | Maximum.. | 56 | 56 | 54 | 57 | 61 | 57 | 59 | 55 | 58 | 51 | 46 | 40 | 53 | 59 | 60 | 49 | 41 | 48 | 44 | 54 | 40 | 41 | 52 | 57 | 51 | 32 | 36 | 49 | 57 | 57   | 50.9 |      |
|                    | Minimum.. | 44 | 30 | 29 | 26 | 33 | 42 | 45 | 45 | 43 | 41 | 32 | 31 | 30 | 23 | 24 | 29 | 39 | 28 | 35 | 28 | 29 | 28 | 20 | 26 | 24 | 28 | 13 | 15 | 11 | 22   | 29.8 |      |
| Chambersville..... | Maximum.. | 52 | 48 | 50 | 63 | 60 | 58 | 54 | 56 | 56 | 52 | 38 | 38 | 30 | 55 | 58 | 62 | 59 | 46 | 45 | 37 | 43 | 31 | 54 | 55 | 55 | 30 | 40 | 45 | 46 | 46   | 49.6 |      |
|                    | Minimum.. | 38 | 32 | 26 | 34 | 45 | 32 | 44 | 51 | 40 | 31 | 31 | 26 | 26 | 23 | 32 | 40 | 30 | 25 | 33 | 24 | 27 | 25 | 17 | 32 | 20 | 22 | 4  | 10 | 10 | 16   | 28.2 |      |
| Claysville.....    | Maximum.. | 65 | 53 | 55 | 68 | 61 | 66 | 68 | 70 | 61 | 55 | 50 | 35 | 31 | 58 | 62 | 56 | 46 | 42 | 42 | 44 | 33 | 55 | 52 | 58 | 51 | 29 | 40 | 47 | 54 | 54   | 51.8 |      |
|                    | Minimum.. | 39 | 28 | 31 | 29 | 49 | 37 | 48 | 44 | 44 | 33 | 33 | 26 | 24 | 24 | 43 | 30 | 30 | 25 | 31 | 25 | 29 | 22 | 21 | 33 | 24 | 22 | 10 | 11 | 13 | 20   | 29.3 |      |
| Clearfield.....    | Maximum.. | 46 | 43 | 64 | 58 | 68 | 63 | 72 | 60 | 60 | 63 | 56 | 42 | 42 | 56 | 60 | 62 | 53 | 58 | 43 | 42 | 38 | 32 | 41 | 52 | 50 | 38 | 38 | 46 | 46 | 55   | 51.6 |      |
|                    | Minimum.. | 40 | 32 | 28 | 23 | 27 | 30 | 32 | 45 | 48 | 35 | 28 | 32 | 23 | 22 | 25 | 25 | 23 | 23 | 28 | 26 | 28 | 21 | 22 | 28 | 30 | 19 | 5  | 8  | 16 | 9    | 26.2 |      |
| Coatesville.....   | Maximum.. | 60 | 52 | 50 | 56 | 63 | 59 | 58 | 59 | 50 | 57 | 61 | 55 | 41 | 55 | 60 | 64 | 57 | 41 | 61 | 40 | 50 | 38 | 41 | 49 | 57 | 50 | 29 | 33 | 44 | 52   | 51.2 |      |
|                    | Minimum.. | 44 | 34 | 33 | 24 | 42 | 43 | 40 | 49 | 43 | 42 | 33 | 33 | 28 | 23 | 30 | 27 | 38 | 30 | 38 | 28 | 36 | 27 | 18 | 30 | 27 | 18 | 13 | 14 | 20 | 35   | 31.3 |      |
| Corry.....         | Maximum.. | 47 | 36 | 49 | 57 | 60 | 57 | 61 | 54 | 53 | 48 | 42 | 46 | 30 | 50 | 52 | 40 | 36 | 39 | 36 | 37 | 33 | 33 | 42 | 40 | 50 | 43 | 31 | 43 | 46 | 56   | 44.9 |      |
|                    | Minimum.. | 34 | 32 | 25 | 31 | 38 | 23 | 37 | 45 | 40 | 33 | 26 | 26 | 24 | 24 | 36 | 33 | 25 | 19 | 23 | 23 | 26 | 25 | 20 | 28 | 16 | 15 | 10 | 14 | 15 | 23   | 26.8 |      |
| Coudersport.....   | Maximum.. | 47 | 43 | 44 | 55 | 56 | 56 | 55 | 55 | 45 | 49 | 47 | 44 | 33 | 52 | 54 | 57 | 53 | 36 | 42 | 34 | 38 | 29 | 37 | 37 | 48 | 50 | 26 | 37 | 45 | 50   | 45.4 |      |
|                    | Minimum.. | 40 | 33 | 30 | 24 | 41 | 18 | 40 | 45 | 39 | 36 | 26 | 25 | 25 | 21 | 27 | 30 | 26 | 18 | 32 | 21 | 28 | 22 | 9  | 32 | 18 | 15 | 3  | 4  | 7  | 11   | 24.9 |      |
| Emporium.....      | Maximum.. | 49 | 43 | 46 | 55 | 56 | 51 | 58 | 55 | 55 | 51 | 50 | 37 | 34 | 54 | 54 | 59 | 46 | 39 | 44 | 36 | 42 | 34 | 42 | 40 | 52 | 44 | 30 | 37 | 45 | 51   | 46.3 |      |
|                    | Minimum.. | 41 | 37 | 31 | 24 | 35 | 21 | 43 | 51 | 42 | 40 | 36 | 29 | 31 | 25 | 25 | 31 | 30 | 21 | 35 | 26 | 32 | 23 | 16 | 27 | 22 | 15 | 4  | 8  | 10 | 13   | 27.5 |      |
| Erie.....          | Maximum.. | 50 | 42 | 47 | 61 | 60 | 61 | 55 | 59 | 49 | 47 | 46 | 37 | 36 | 54 | 54 | 42 | 34 | 40 | 38 | 42 | 42 | 34 | 44 | 40 | 54 | 42 | 27 | 37 | 46 | 48   | 45.9 |      |
|                    | Minimum.. | 41 | 35 | 36 | 38 | 41 | 38 | 50 | 49 | 43 | 37 | 30 | 27 | 29 | 33 | 40 | 30 | 25 | 25 | 27 | 27 | 31 | 26 | 28 | 34 | 36 | 20 | 19 | 21 | 26 | 34   | 32.5 |      |
| Franklin.....      | Maximum.. | 48 | 47 | 55 | 64 | 62 | 56 | 57 | 57 | 50 | 50 | 50 | 31 | 36 | 55 | 54 | 42 | 43 | 45 | 37 | 42 | 38 | 35 | 49 | 41 | 56 | 47 | 37 | 46 | 52 | 56   | 47.9 |      |
|                    | Minimum.. | 31 | 34 | 30 | 27 | 28 | 24 | 28 | 42 | 49 | 33 | 30 | 26 | 26 | 26 | 33 | 31 | 30 | 22 | 24 | 24 | 25 | 25 | 18 | 29 | 19 | 20 | 5  | 6  | 10 | 11   | 25.5 |      |
| Freeland.....      | Maximum.. | 52 | 47 | 43 | 52 | 54 | 46 | 58 | 57 | 49 | 53 | 49 | 47 | 34 | 45 | 59 | 60 | 50 | 35 | 50 | 35 | 43 | 34 | 35 | 44 | 56 | 46 | 21 | 33 | 36 | 46   | 45.6 |      |
|                    | Minimum.. | 39 | 32 | 28 | 27 | 38 | 37 | 40 | 47 | 33 | 35 | 37 | 26 | 25 | 20 | 31 | 35 | 29 | 24 | 31 | 19 | 25 | 20 | 14 | 27 | 29 | 11 | 3  | 9  | 19 | 26   | 27.2 |      |
| Gettysburg.....    | Maximum.. | 55 | 54 | 53 | 56 | 64 | 59 | 58 | 58 | 56 | 56 | 51 | 51 | 42 | 51 | 62 | 62 | 57 | 43 | 51 | 50 | 54 | 45 | 42 | 51 | 58 | 55 | 35 | 35 | 48 | 56   | 52.3 |      |
|                    | Minimum.. | 45 | 35 | 35 | 27 | 40 | 48 | 47 | 53 | 44 | 42 | 43 | 32 | 31 | 22 | 27 | 29 | 40 | 30 | 38 | 30 | 30 | 29 | 19 | 29 | 26 | 29 | 15 | 17 | 17 | 30   | 32.6 |      |
| Greensburg.....    | Maximum.. | 54 | 52 | 58 | 65 | 65 | 65 | 67 | 69 | 58 | 54 | 57 | 36 | 34 | 58 | 60 | 63 | 45 | 54 | 48 | 41 | 44 | 37 | 58 | 51 | 58 | 52 | 31 | 41 | 46 | 61   | 52.4 |      |
|                    | Minimum.. | 40 | 30 | 31 | 34 | 47 | 35 | 49 | 50 | 43 | 34 | 35 | 26 | 26 | 25 | 40 | 41 | 33 | 26 | 32 | 26 | 29 | 25 | 22 | 35 | 21 | 21 | 7  | 13 | 15 | 24   | 30.5 |      |
| Grove City.....    | Maximum.. | 55 | 46 | 47 | 54 | 53 | 54 | 57 | 56 | 55 | 45 | 45 | 32 | 30 | 52 | 52 | 53 | 43 | 42 | 42 | 45 | 45 | 36 | 33 | 35 | 38 | 42 | 29 | 30 | 42 | 45   | 47   | 44.5 |
|                    | Minimum.. | 38 | 33 | 29 | 34 | 42 | 32 | 45 | 51 | 42 | 34 | 35 | 25 | 25 | 25 | 25 | 42 | 38 | 32 | 26 | 34 | 24 | 28 | 26 | 24 | 22 | 29 | 20 | 10 | 16 | 17   | 29   | 30.1 |
| Hamburg.....       | Maximum.. | 58 | 57 | 59 | 57 | 51 | 56 | 50 | 56 | 56 | 54 | 56 | 46 | 44 | 48 | 50 | 50 | 48 | 44 | 46 | 50 | 48 | 44 | 38 | 52 | 44 | 38 | 33 | 36 | 45 | 48   | 48.4 |      |
|                    | Minimum.. | 39 | 30 | 29 | 24 | 30 | 37 | 39 | 34 | 40 | 40 | 34 | 30 | 28 | 21 | 27 | 30 | 29 | 32 | 26 | 30 | 28 | 16 | 28 | 24 | 26 | 13 | 16 | 15 | 15 | 15   | 28.4 |      |
| Harrisburg.....    | Maximum.. | 57 | 53 | 50 | 55 | 58 | 51 | 58 | 60 | 49 | 49 | 56 | 52 | 41 | 58 | 51 | 56 | 42 | 48 | 39 | 50 | 41 | 48 | 37 | 41 | 50 | 55 | 50 | 29 | 35 | 42   | 56   | 48.9 |
|                    | Minimum.. | 44 | 38 | 35 | 32 | 40 | 41 | 47 | 49 | 43 | 43 | 38 | 33 | 30 | 28 | 35 | 35 | 35 | 31 | 38 | 30 | 34 | 29 | 23 | 33 | 29 | 18 | 17 | 21 | 22 | 31   | 31   | 33.4 |
| Hawley.....        | Maximum.. | 54 | 47 | 46 | 52 | 57 | 49 | 52 | 56 | 57 | 52 | 52 | 52 | 40 | 48 | 59 | 60 | 55 | 44 | 45 | 45 | 43 | 37 | 37 | 45 | 56 | 50 | 27 | 35 | 45 | 48   | 48.2 |      |
|                    | Minimum.. | 43 | 33 | 27 | 17 | 29 | 28 | 42 | 48 | 36 | 36 | 27 | 32 | 29 | 23 | 21 | 21 | 33 | 23 | 19 | 24 | 9  | 30 | 17 | 17 | 4  | 3  | 5  | 16 | 15 | 15   | 25.0 |      |
| Huntingdon.....    | Maximum.. | 50 | 51 | 52 | 58 | 60 | 48 | 56 | 58 | 56 | 58 | 55 | 42 | 36 | 59 | 62 | 61 | 53 | 39 | 44 | 43 | 48 |    |    |    |    |    |    |    |    |      |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA

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32

PENNSYLVANIA SECTION.  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII.

DECEMBER, 1932.

No. 12.

## GENERAL SUMMARY.

The opening and closing weeks of December were unseasonably mild, and the accumulated temperature excess was greater than the accumulated deficiency for the abnormally cold period that intervened. The greatest departures on the mild side occurred on the 7th and 25th when temperatures averaged about 20 degrees above the normal. Lowest temperatures occurred generally from the 16th to 19th inclusive, when there was an average deficiency of from 12 to 15 degrees. There were no unusual extremes. Intense cold was of short duration, and lakes and ponds did not accumulate ice of sufficient thickness to be worth harvesting. Precipitation, which averaged a little more than two-thirds of the December normal, was wholly out of the usual order. The heaviest snowfall was in the southeastern part of the State, and the lightest in the northern tier of counties. This condition is usually reversed. The rainfall was generally heaviest in the western counties, where it exceeded the normal in a few places. Most of the snow in the southeastern part of the State occurred on the 17th and 18th under the influence of a coast storm, it having been preceded by a light snow on the 10th and 11th. The monthly snowfall exceeded ten inches in York, Lancaster, Chester, Delaware, Philadelphia, Montgomery, and Bucks counties, and was generally less than five inches across the northern portion of the State. Moderate cold prevailed from the 9th to the 17th with very little snow cover on the fields, and frost penetrated the ground to a depth of from six to twelve inches. It left the soil with the melting of the snow, and there was very little heaving to damage the roots of winter wheat and rye. At the end of the month there was very little frost in the ground, and the winter grains were looking good excepting the fields that were seeded so late that the grain was short when growth was stopped by general freezing. Drought at the usual seeding time resulted in late seeding for a fairly large portion of the crop, and at the close of December there was an apparent danger of considerable winter killing. The soil was well soaked by the heavy November rains, and the water supply throughout December was ample, the ponds being well filled, and the small streams flowing at moderate stages. The snow of the 17th and 18th was the only heavy storm experienced during the month.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 94 stations, was 33.3°, or 2.2° above the December nor-

mal. The highest monthly mean was 40.4°, at Philadelphia, and the lowest 24.6° at Mount Pocono. The highest recorded during the month was 72°, at Vandergrift on the 25th, while the lowest was -14° at Brookville on the 16th. The greatest daily range in temperature was 53°, at Somerset on the 20th.

## PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from the records of 144 well-distributed stations, was 2.19 inches, which is 0.97 inch less than the normal for the month. The greatest monthly amount was 4.14 inches at Punxsuatawney, and the least was 0.51 inch at Montrose. The greatest amount recorded in any 24 consecutive hours was 1.86 inches at Erie on the 30th-31st. Snowfall averaged 7.4 inches, compared with the December normal of 7.9 inches. The greatest total snowfall for the month was 14.0 inches at West Chester, and the greatest amount in 24 hours was 10.0 inches at Shawmont on the 17th.

## COMPARATIVE DATA FOR DECEMBER

| Year                     | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|--------------------------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|                          | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1888.....                | 32.5        | 62      | -10    | 3.14          | 5.57     | 1.44  | 8           | 8             | 15     | 9                      |
| 1889.....                | 39.6        | 73      | 0      | 2.77          | 5.05     | 0.85  | 11          | 9             | 11     | 12                     |
| 1890.....                | 27.2        | 59      | -11    | 3.97          | 9.68     | 1.72  | 7           | 8             | 16     | 12                     |
| 1891.....                | 38.4        | 68      | -3     | 4.09          | 6.53     | 2.00  | 12          | 8             | 11     | 10                     |
| 1892.....                | 27.8        | 70      | -13    | 1.69          | 4.37     | 0.40  | 7           | 9             | 15     | 9                      |
| 1893.....                | 32.2        | 70      | -7     | 3.06          | 6.07     | 1.41  | 6           | 11            | 14     | 12                     |
| 1894.....                | 32.4        | 66      | -28    | 3.95          | 5.93     | 2.27  | 10          | 9             | 12     | 10                     |
| 1895.....                | 34.2        | 70      | -10    | 3.22          | 6.55     | 1.40  | 10          | 9             | 12     | 7                      |
| 1896.....                | 30.6        | 67      | -13    | 1.20          | 2.62     | 0.40  | 10          | 9             | 12     | 6                      |
| 1897.....                | 33.0        | 73      | -6     | 3.95          | 6.25     | 1.28  | 6           | 8             | 17     | 12                     |
| 1898.....                | 29.8        | 68      | -11    | 2.98          | 4.79     | 1.31  | 10          | 8             | 13     | 10                     |
| 1899.....                | 31.5        | 73      | -11    | 3.04          | 6.00     | 1.18  | 10          | 10            | 11     | 10                     |
| 1900.....                | 31.2        | 65      | -2     | 2.08          | 4.16     | 0.40  | 8           | 9             | 14     | 7                      |
| 1901.....                | 29.1        | 77      | -18    | 5.91          | 10.26    | 2.62  | 7           | 9             | 15     | 11                     |
| 1902.....                | 28.4        | 68      | -12    | 5.54          | 8.51     | 1.97  | 7           | 7             | 17     | 14                     |
| 1903.....                | 25.4        | 60      | -14    | 2.66          | 4.83     | 0.92  | 8           | 9             | 14     | 9                      |
| 1904.....                | 25.8        | 71      | -19    | 2.48          | 3.71     | 1.32  | 7           | 7             | 17     | 11                     |
| 1905.....                | 33.6        | 65      | -5     | 3.57          | 5.48     | 0.95  | 10          | 7             | 14     | 8                      |
| 1906.....                | 30.8        | 67      | -14    | 3.97          | 7.08     | 1.69  | 5           | 5             | 21     | 14                     |
| 1907.....                | 33.2        | 68      | -8     | 4.30          | 7.89     | 1.85  | 7           | 8             | 16     | 12                     |
| 1908.....                | 32.0        | 74      | -2     | 2.86          | 4.61     | 1.26  | 9           | 8             | 14     | 10                     |
| 1909.....                | 27.0        | 71      | -10    | 3.39          | 8.50     | 1.19  | 9           | 8             | 14     | 8                      |
| 1910.....                | 24.4        | 68      | -14    | 2.65          | 4.41     | 0.64  | 8           | 6             | 17     | 12                     |
| 1911.....                | 36.3        | 70      | 5      | 3.27          | 5.99     | 0.75  | 7           | 5             | 19     | 13                     |
| 1912.....                | 34.4        | 74      | -8     | 3.27          | 6.48     | 1.70  | 9           | 7             | 15     | 9                      |
| 1913.....                | 34.2        | 66      | -7     | 2.63          | 4.11     | 0.69  | 9           | 7             | 15     | 8                      |
| 1914.....                | 27.3        | 69      | -28    | 4.63          | 7.74     | 2.43  | 8           | 5             | 18     | 14                     |
| 1915.....                | 29.4        | 70      | -7     | 4.06          | 6.53     | 1.36  | 6           | 8             | 17     | 12                     |
| 1916.....                | 29.7        | 73      | -12    | 3.07          | 6.38     | 0.59  | 11          | 9             | 11     | 12                     |
| 1917.....                | 21.5        | 52      | -28    | 1.73          | 5.16     | 0.60  | 10          | 8             | 13     | 8                      |
| 1918.....                | 36.6        | 72      | -1     | 3.38          | 5.74     | 0.90  | 9           | 7             | 15     | 11                     |
| 1919.....                | 25.3        | 66      | -23    | 2.61          | 4.75     | 0.95  | 9           | 8             | 14     | 11                     |
| 1920.....                | 33.4        | 68      | -7     | 3.28          | 6.77     | 1.53  | 7           | 9             | 15     | 10                     |
| 1921.....                | 31.6        | 66      | -11    | 2.59          | 6.25     | 0.91  | 8           | 8             | 15     | 10                     |
| 1922.....                | 31.5        | 69      | -9     | 2.75          | 4.55     | 1.19  | 10          | 8             | 13     | 10                     |
| 1923.....                | 39.6        | 71      | 1      | 4.99          | 8.55     | 2.42  | 9           | 7             | 15     | 14                     |
| 1924.....                | 29.8        | 69      | -23    | 2.13          | 4.42     | 0.56  | 7           | 7             | 17     | 11                     |
| 1925.....                | 30.7        | 62      | -15    | 1.72          | 3.93     | 0.69  | 8           | 7             | 16     | 10                     |
| 1926.....                | 27.3        | 62      | -20    | 2.58          | 4.61     | 0.90  | 8           | 7             | 16     | 12                     |
| 1927.....                | 32.7        | 73      | -6     | 4.41          | 8.93     | 2.16  | 9           | 5             | 16     | 13                     |
| 1928.....                | 34.4        | 68      | -2     | 1.16          | 2.57     | 0.28  | 13          | 7             | 11     | 6                      |
| 1929.....                | 32.2        | 70      | -9     | 2.77          | 4.95     | 1.21  | 7           | 5             | 18     | 12                     |
| 1930.....                | 30.0        | 59      | -15    | 2.29          | 4.06     | 0.82  | 6           | 7             | 18     | 10                     |
| 1931.....                | 38.1        | 70      | -1     | 2.85          | 5.49     | 1.27  | 10          | 6             | 15     | 11                     |
| 1932.....                | 33.3        | 72      | -14    | 2.19          | 4.14     | 0.51  | 10          | 6             | 15     | 12                     |
| Normal and Extremes..... | 31.1        | 77      | -28    | 3.16          | 10.26    | 0.28  | 8           | 8             | 15     | 10                     |



## Climatological Data for December, 1932

| Station.           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                        | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|------------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | (greatest in 24 hours) | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear |                              |           | Pt. cloudy | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                        |                           |                              |       |                              |           |            |                             |
| Allentown          | Lehigh       | 254             | 20                      | 32.8                         | +0.6                      | 64      | 3    | 3      | 19   | 39                       | 2.21  | -1.22                     | 0.67                   | 9.4                       | 10                           | 12    | 7                            | 12        | ne.        | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 45                      | 33.3                         | +3.6                      | 67      | 25   | -1     | 16   | 31                       | 2.18  | -0.24                     | 0.41                   | 9.0                       | 14                           | 18    | 9                            | 4         | w.         | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | ...                     | 36.0                         | +2.0                      | 67      | 3    | 9      | 19   | 39                       | 2.68  | -0.63                     | 0.92                   | 10.8                      | 12                           | ...   | ...                          | ...       | sw.        | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 10                      | 32.8                         | -1.0                      | 67      | 3    | 4      | 16   | 39                       | 1.75  | -1.06                     | 0.70                   | 10.7                      | 6                            | 20    | 0                            | 11        | nw.        | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | ...                     | 34.0                         | ...                       | 68      | 25   | -3     | 19   | 45                       | 1.31  | ...                       | 0.43                   | 6.3                       | 7                            | 14    | 4                            | 13        | nw.        | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 24                      | 29.8                         | -0.7                      | 64      | 25   | -1     | 19   | 41                       | 1.57  | -1.11                     | 0.35                   | 5.5                       | 11                           | 5     | 7                            | 19        | sw.        | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 47                      | 36.0                         | +2.7                      | 65      | 3    | 7      | 19   | 32                       | 2.37  | -0.95                     | 0.53                   | 9.6                       | 14                           | 10    | 3                            | 18        | w.         | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 66                      | 31.4                         | -0.1                      | 70      | 3    | -5     | 19   | 42                       | 2.41  | -0.43                     | 0.70                   | 9.0                       | 12                           | 16    | 3                            | 12        | nw.        | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 36                      | 32.7                         | +1.2                      | 64      | 3†   | 1      | 9    | 40                       | 1.72  | -1.07                     | 0.38                   | 5.8                       | 13                           | 11    | 0                            | 20        | ...        | W. L. Gearhart.             |
| Center Hill        | Center       | 1,272           | 36                      | 34.1                         | +4.4                      | 66      | 3    | -2     | 15   | 36                       | 1.23  | -1.80                     | 0.88                   | 4.0                       | 9                            | 15    | 3                            | 13        | ...        | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 33                      | 34.0                         | +1.0                      | 68      | 3    | 3      | 19   | 35                       | 1.94  | -0.69                     | 0.48                   | 7.7                       | 14                           | 6     | 12                           | 13        | sw.        | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 25                      | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | ...   | ...                       | ...                    | ...                       | ...                          | ...   | ...                          | ...       | ...        | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 45                      | 35.6                         | +2.9                      | 64      | 3    | 8      | 21   | 30                       | 3.09  | -0.82                     | 0.77                   | 10.0                      | 14                           | 12    | 2                            | 17        | nw.        | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 21                      | 32.1                         | +0.5                      | 64      | 3    | 2      | 16   | 31                       | 2.40  | -0.83                     | 0.57                   | 10.6                      | 15                           | 14    | 2                            | 15        | w.         | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 45                      | 30.4                         | +1.3                      | 63      | 25   | -6     | 15   | 37                       | 1.67  | -1.56                     | 0.31                   | 5.0                       | 13                           | 4     | 12                           | 15        | sw.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 40                      | 34.1                         | +1.9                      | 65      | 3    | -1     | 19   | 36                       | 2.18  | -1.04                     | 0.55                   | 8.6                       | 14                           | 9     | 6                            | 16        | n.         | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 39                      | 32.0                         | +4.9                      | 65      | 25   | -2     | 16   | 31                       | 1.88  | -1.58                     | 0.45                   | 9.5                       | 12                           | 7     | 10                           | 14        | nw.        | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 26                      | 36.2                         | +3.2                      | 68      | 3    | -2     | 19   | 38                       | 3.35  | -0.02                     | 1.00                   | 12.6                      | 15                           | 11    | 4                            | 16        | sw.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 59                      | 35.6                         | +3.4                      | 68      | 3    | 2      | 19   | 31                       | 2.36  | -0.85                     | 0.60                   | 8.0                       | 14                           | 11    | 6                            | 14        | s.         | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 28                      | 32.2                         | +3.2                      | 63      | 3†   | 3      | 19   | 38                       | 2.37  | -1.45                     | 0.35                   | 9.0                       | 13                           | 13    | 6                            | 12        | w.         | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 17                      | 27.6                         | ...                       | 56      | 25†  | -10    | 19   | 41                       | 2.59  | -0.24                     | 0.82                   | 4.0                       | 7                            | 14    | 4                            | 13        | w.         | Gustav Holtz.               |
| Hamburg            | Berks        | 555             | 39                      | 32.6                         | +0.9                      | 62      | 7    | 0      | 19   | 32                       | 2.02  | -1.57                     | 0.50                   | 7.0                       | 11                           | 16    | 3                            | 12        | w.         | State Sanatorium.           |
| Hanover            | York         | 600             | 28                      | 38.0                         | +3.8                      | 70      | 3    | 8      | 18   | 32                       | 2.31  | -0.74                     | 0.50                   | 8.0                       | 14                           | 14    | 5                            | 12        | s.         | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 63                      | 35.0                         | +2.3                      | 66      | 3    | 8      | 19   | 36                       | 1.83  | -1.19                     | 0.63                   | 8.7                       | 13                           | 5     | 6                            | 20        | w.         | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 14                      | 31.0                         | +2.2                      | 65      | 25   | -7     | 17   | 46                       | 1.33  | -1.55                     | 0.44                   | 6.5                       | 11                           | 10    | 8                            | 13        | w.         | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 17                      | 36.0                         | +1.8                      | 69      | 4    | 8      | 19   | 33                       | 2.70  | +0.34                     | 0.81                   | 12.0                      | 10                           | 9     | 11                           | 11        | ne.        | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 45                      | 32.4                         | +0.8                      | 65      | 3    | -1     | 19   | 44                       | 1.87  | -1.06                     | 0.44                   | 5.5                       | 10                           | 10    | 5                            | 16        | ne.        | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 20                      | 34.8                         | +2.4                      | 70      | 25   | 1      | 19   | 44                       | 1.49  | -1.07                     | 0.45                   | 7.6                       | 12                           | 5     | 4                            | 22        | ...        | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 45                      | 28.8                         | -4.6                      | 66      | 7    | -5     | 18   | 33                       | 3.14  | +0.02                     | 0.97                   | 10.0                      | 12                           | 8     | 10                           | 13        | n.         | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 35                      | 30.8                         | +2.1                      | 68      | 25   | -6     | 17   | 43                       | 0.58  | -1.42                     | 0.10                   | 5.5                       | 8                            | 10    | 11                           | 10        | ...        | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 48                      | 33.4                         | +1.4                      | 68      | 3    | 3      | 19   | 38                       | 1.81  | -1.59                     | 0.62                   | 9.6                       | 14                           | 13    | 8                            | 10        | w.         | S. B. Benzing.              |
| Lewisburg          | Union        | 450             | 56                      | 31.1                         | +1.0                      | 67      | 3    | -1     | 18   | 39                       | 1.83  | -1.29                     | 0.38                   | 6.5                       | 14                           | 6     | 9                            | 16        | s.         | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 42                      | 33.2                         | +2.2                      | 65      | 3    | 1      | 16   | 31                       | 1.84  | -1.12                     | 0.44                   | 6.0                       | 15                           | 3     | 10                           | 18        | ne.        | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 17                      | 32.8                         | +1.8                      | 69      | 4    | 1      | 16   | 44                       | 1.85  | -0.94                     | 0.43                   | 7.2                       | 14                           | 14    | 5                            | 12        | sw.        | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 5                       | 39.0                         | ...                       | 69      | 3    | 13     | 16   | 32                       | 3.00  | ...                       | ...                    | 10.0                      | 6                            | 21    | 3                            | 7         | ne.        | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 43                      | 33.0                         | +2.4                      | 64      | 7    | -1     | 19   | 36                       | 2.29  | -1.71                     | 0.77                   | 7.4                       | 12                           | 11    | 4                            | 16        | s.         | R. K. Wintermute.           |
| Midlinton          | Juniata      | 445             | 28                      | 33.8                         | +2.7                      | 68      | 1†   | -1     | 19   | 44                       | 1.46  | -1.25                     | 0.40                   | 6.1                       | 12                           | 9     | 5                            | 17        | w.         | W. H. Manbeck.              |
| Montrose           | Susquehanna  | 1,720           | 28                      | 32.0                         | +5.9                      | 60      | 3†   | -12    | 17   | 38                       | 0.51  | -2.01                     | 0.10                   | 4.0                       | 6                            | 4     | 8                            | 19        | s.         | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 26                      | 24.6                         | -1.2                      | 53      | 7    | -2     | 18   | 28                       | 1.59  | -1.99                     | 0.47                   | 7.5                       | 10                           | 14    | 3                            | 14        | nw.        | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 20                      | 28.8                         | +0.8                      | 64      | 3    | -10    | 16   | 44                       | 1.40  | -1.44                     | 0.32                   | 3.3                       | 10                           | 10    | 8                            | 13        | n.         | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 43                      | 33.0                         | +1.3                      | 66      | 3†   | 0      | 20   | 42                       | 2.99  | -0.28                     | 0.77                   | 10.7                      | 11                           | 14    | 7                            | 10        | w.         | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 398             | 14                      | 32.4                         | ...                       | 64      | 3    | 1      | 19   | 42                       | 2.10  | -0.25                     | 0.58                   | 8.1                       | 14                           | 10    | 6                            | 15        | ne.        | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 61                      | 40.4                         | +4.1                      | 67      | 3    | 15     | 16   | 34                       | 3.13  | -0.30                     | 1.21                   | 9.5                       | 12                           | 8     | 7                            | 16        | sw.        | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 8                       | 39.4                         | ...                       | 68      | 3    | 13     | 16   | 34                       | 3.13  | ...                       | 0.91                   | 10.6                      | 13                           | 9     | 9                            | 13        | ...        | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 16                      | 37.3                         | +2.1                      | 65      | 3    | 14     | 16   | 31                       | 2.38  | -0.72                     | 0.80                   | 12.0                      | 12                           | 6     | 8                            | 17        | sw.        | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 22                      | 36.4                         | +3.8                      | 68      | 3    | 4      | 19   | 35                       | 2.89  | -0.23                     | 0.68                   | 11.0                      | 13                           | 9     | 16                           | 6         | sw.        | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 47                      | 33.2                         | +2.0                      | 62      | 3    | -6     | 19   | 39                       | 2.47  | -0.97                     | 0.46                   | 9.8                       | 13                           | 6     | 8                            | 17        | sw.        | John E. Benner.             |
| Reading            | Berks        | 325             | 60                      | 37.2                         | +5.0                      | 67      | 3    | 10     | 16   | 40                       | 2.48  | -1.08                     | 0.77                   | 8.6                       | 15                           | 9     | 7                            | 15        | nw.        | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 38                      | 33.2                         | +2.5                      | 63      | 7    | 4      | 17   | 43                       | 1.12  | -1.90                     | 0.29                   | 4.4                       | 11                           | 5     | 10                           | 16        | sw.        | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 42                      | 32.3                         | +0.8                      | 64      | 3    | -3     | 19   | 33                       | 1.85  | -1.19                     | 0.39                   | 7.5                       | 13                           | 9     | 5                            | 17        | w.         | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 36                      | 36.0                         | +0.9                      | 63      | 7    | 6      | 19   | 33                       | 2.75  | -0.82                     | 0.79                   | 12.8                      | 16                           | 4     | 10                           | 17        | nw.        | W. S. Guiles.               |
| State College      | Center       | 1,217           | 48                      | 32.4                         | +2.7                      | 63      | 25   | -1     | 16   | 32                       | 1.98  | -0.64                     | 0.37                   | 5.8                       | 13                           | 9     | 13                           | 9         | w.         | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 13                      | 31.7                         | +2.0                      | 67      | 3    | -4     | 19   | 48                       | 2.16  | -1.17                     | 0.60                   | 10.9                      | 10                           | 14    | 5                            | 12        | sw.        | State Normal School.        |
| Towanda            | Bradford     | 754             | 38                      | 32.0                         | +3.2                      | 64      | 25   | 0      | 17   | 36                       | 1.20  | -1.04                     | 0.49                   | 3.7                       | 12                           | 2     | 10                           | 19        | sw.        | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 62                      | 29.6                         | +1.7                      | 66      | 25   | -4     | 16   | 46                       | 0.83  | -1.63                     | 0.23                   | 4.5                       | 11                           | 14    | 6                            | 11        | w.         | George W. Hill.             |
| West Chester       | Chester      | 455             | 33                      | 37.4                         | +4.3                      | 64      | 7    | 11     | 16   | 24                       | 2.99  | -0.91                     | 0.90                   | 14.0                      | 8                            | 13    | 5                            | 13        | n.         | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 46                      | 31.9                         | +1.2                      | 63      | 3    | 4      | 19   | 33                       | 1.46  | -1.46                     | 0.38                   | 5.5                       | 11                           | 8     | 4                            | 19        | w.         | Miss Veronica E. April.     |
| York               | York         | 400             | 44                      | 32.8                         | -0.3                      | 61      | 7†   | -1     | 18   | 34                       | 2.28  | -0.65                     | 0.55                   | 11.5                      | 14                           | 10    | 8                            | 13        | sw.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                        |                           |                              |       |                              |           |            |                             |
| Beaver Dam         | Beaver       | 700             | 40                      | 32.3                         | -0.7                      | 62      | 25   | -4     | 16   | 34                       | 2.33  | -0.38                     | 0.72                   | 4.5                       | 13                           | 6     | 10                           | 15        | sw.        | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 13                      | 30.2                         | +2.0                      | 62      | 25   | 0      | 16   | 38                       | 2.02  | -1.05                     | 0.42                   | 5.9                       | 13                           | 11    | 0                            | 20        | ...        | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 42                      | 28.0                         | +0.1                      | 66      | 26   | -14    | 16   | 44                       | 3.09  | +0.14                     | 0.85                   | 6.0                       | 11                           | 13    | 5                            | 13        | ...        | John Fawcett.               |
| Butler             | Butler       | 1,077           | 19                      | 31.8                         | ...                       | 65      | 25   | -6     | 16   | 38                       | 2.36  | -0.33                     | 0.89                   | 6.5                       | 11                           | 11    | 7                            | 13        | w.         | William C. Faust.           |
| Chambersville      | Indiana      |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                        |                           |                              |       |                              |           |            |                             |



Daily Precipitation for December, 1932

| Stations           | Drainage Basin | Day of month |   |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      | Total |      |
|--------------------|----------------|--------------|---|---|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|-------|------|
|                    |                | 1            | 2 | 3 | 4   | 5   | 6   | 7   | 8   | 9   | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29  | 30   | 31   |       |      |
| Atlantic Drainage. |                |              |   |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |       |      |
| Allentown          | Lehigh         |              |   |   |     |     |     | T.  | T.  |     |    | .18 | .33 |     | .19 |     |     |     | .49 |     |     |     | .09 |     |     | T.  | .07 | .02 |      | .67 | .09  |      | .08   | 2.21 |
| Altoona            | Juniata        |              |   |   | .03 |     | .02 | .04 |     |     |    | .41 | .40 | .11 | .02 |     |     | .12 |     | .49 |     |     | .09 |     |     | T.  | .17 |     | .20  |     | .07  | .38  | .14   | 2.18 |
| Ansonia            | W. Br. Susq.   |              |   |   |     |     |     | .03 | .06 |     |    | T.  | .05 | .21 | .03 |     | T.  |     | .03 |     |     |     |     | .07 |     | T.  | T.  |     |      | .04 |      | .20  | 0.65  |      |
| Ardmore            | Lower Del.     |              |   |   |     |     |     | .01 |     |     |    | .26 | .34 | .21 | .23 |     |     | .65 |     |     |     | .07 |     |     |     | .03 | .04 |     | .92  | .16 |      | .10  | 2.68  |      |
| Arendtsville       | Lower Susq.    |              |   |   |     |     |     |     |     |     |    |     |     |     | .12 |     |     | .39 |     |     |     |     |     |     |     | .07 |     | .70 |      |     | .13  |      | 1.75  |      |
| Baker's Summit     | Juniata        |              |   |   |     |     |     | .08 |     |     |    | .22 | .08 | .25 |     | .09 |     | .27 |     |     |     | .04 |     |     | .04 |     | .07 |     | .42  | .02 | .28  |      | 1.79  |      |
| Bedford            | Juniata        |              |   |   |     | T.  | .01 |     |     |     |    | .30 |     |     | .04 |     |     | .38 |     |     |     |     | .01 |     |     |     |     |     | .43  |     | .14  |      | 1.81  |      |
| Bellefonte         | W. Br. Susq.   |              |   |   | T.  |     |     | T.  | .09 | T.  |    | .11 | .08 | .23 | .09 | T.  | T.  | .08 |     |     |     | T.  |     | .28 | .06 | T.  |     | .19 | .01  | .35 | T.   | 1.57 |       |      |
| Bethlehem          | Lehigh         |              |   |   |     |     |     | T.  | .05 |     |    | .09 | .19 | .38 | T.  | .17 |     | .23 | .20 |     |     |     | .10 |     |     | .10 | .02 | .21 | .53  | .07 | .03  | 2.87 |       |      |
| Blosserville       | Lower Susq.    |              |   |   | .10 |     |     | T.  |     |     |    | .76 |     | .10 |     |     |     | .28 | .50 |     |     |     |     |     | .10 |     | .10 |     | .25  | .15 | .10  |      | 1.84  |      |
| Buffalo Mills      | Juniata        |              |   |   |     |     |     | .05 |     |     |    | .35 |     |     |     |     |     | .32 | .50 |     |     |     | .05 |     |     |     |     |     | .33  |     | .23  |      | 1.51  |      |
| Carlisle           | Lower Susq.    |              |   |   |     |     |     | .03 | .02 |     |    | .48 | T.  | .25 |     | .23 |     | .32 |     |     |     |     | .08 |     | .06 |     |     | .47 | .23  |     | .16  | .08  | 2.41  |      |
| Catawissa          | N. Br. Susq.   |              |   |   | T.  |     |     | .01 | .04 |     |    | .20 | T.  | .20 | .18 |     |     | .19 |     |     |     |     |     | .21 | .02 | .01 |     | .38 | .04  | .14 | .10  | 1.72 |       |      |
| Center Hall        | Susquehanna    |              |   |   |     |     |     | .02 |     |     |    | .22 | .03 |     | .10 |     |     | .08 |     |     |     |     |     |     | .12 |     |     | .18 | .10  |     | .38  |      | 1.23  |      |
| Chambersburg       | Potomac        |              |   |   | T.  |     |     | .01 | .02 |     |    | .21 | .04 | .21 | .06 | .05 |     | .40 | .05 |     |     |     | .07 |     |     |     | T.  |     | .48  | .19 |      | .12  | .03   | 1.94 |
| Clearfield         | W. Br. Susq.   |              |   |   |     |     |     |     |     |     |    | .20 | .25 | .30 | .20 |     |     | .72 | .05 |     |     |     | .07 |     |     | .07 |     | .76 | .28  | .02 | .07  | .07  | 3.09  |      |
| Coatesville        | Lower Del.     |              |   |   | T.  |     |     | .03 |     |     |    | .20 | .25 | .30 | .20 |     | .21 | T.  |     |     |     |     | .11 |     |     | T.  | .14 |     | .57  | .15 | .12  | .03  | 2.40  |      |
| Colebrook          | Lower Susq.    |              |   |   |     |     |     | .03 | .01 |     |    |     | .33 | .28 |     |     |     | *   | .42 |     |     |     |     |     |     |     |     |     |      |     |      |      |       |      |
| Conshohocken       | Schuylkill     |              |   |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |       |      |
| Cresson            | Juniata        |              |   |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |      |       |      |
| Doylestown         | Lower Del.     |              |   |   |     |     |     |     |     |     |    | .09 | .12 | .33 | .02 |     |     |     | .58 | .12 |     |     |     | .06 |     |     | .09 |     | .45  | .48 |      | .07  | .08   | 2.44 |
| Emporium           | W. Br. Susq.   |              |   |   | T.  | T.  | .11 | .28 | T.  | .05 |    | .15 | .05 | .11 | .20 |     |     | T.  |     |     |     |     |     | .14 | .31 |     | .09 |     | .03  |     | .03  | .13  | 2.18  |      |
| Ephrata            | Lower Susq.    |              |   |   |     |     |     | .01 |     |     |    | .13 | .16 | .29 | .09 | .05 |     | .34 | .06 |     |     |     | .06 |     |     | .25 | .09 | .06 | T.   | .55 | .24  | .13  | .01   | 2.18 |
| Forest City        | N. Br. Susq.   |              |   |   |     |     |     |     |     |     |    | .09 | .41 | .25 |     |     |     | .30 |     |     | .06 |     |     |     |     |     |     |     |      |     |      |      |       |      |
| Freeland           | Lehigh         |              |   |   |     |     |     | .04 | .06 |     |    | .21 | .28 |     | .17 |     |     | T.  |     |     |     |     | .04 |     |     | .19 | .06 |     |      | .43 | .02  | .17  | 1.88  |      |
| Galeton            | W. Br. Susq.   |              |   |   | .05 |     |     | .31 |     | T.  |    | .10 | T.  | .28 | .10 |     |     | T.  |     |     |     |     |     | .25 | .04 |     |     |     |      |     |      |      |       |      |
| George School      | Lower Del.     |              |   |   |     |     |     |     | .03 |     |    | .05 | .49 | .06 | T.  | .24 |     | .60 | .40 |     |     |     | .08 |     | .01 | .09 | .01 | .35 | .74  | .12 | .08  | 3.55 |       |      |
| Gettysburg         | Potomac        |              |   |   |     |     |     | .03 | T.  |     |    | .20 | .16 | .22 | .08 | .07 |     | .42 | .03 |     |     |     | .02 |     |     | T.  | .07 |     | .60  | .28 | .16  | .02  | 2.36  |      |
| Girardville        | Lower Susq.    |              |   |   |     | .06 | .07 |     |     |     |    | .08 | .20 | .12 | .13 |     |     | .36 |     |     |     | .02 | .03 | .07 | .07 |     |     | .46 | .08  |     | .06  | .02  | 1.83  |      |
| Gordon             | Lower Susq.    |              |   |   |     | .05 | .02 |     |     |     |    | .35 | .10 |     | .30 |     |     | .30 | .10 |     |     |     |     |     | .33 | .07 |     | .26 | .27  |     | .09  | .13  | 2.37  |      |
| Gouldsboro         | Lehigh         |              |   |   |     |     |     |     |     |     |    | .13 |     |     | .05 |     |     | .09 |     | .10 |     |     |     |     |     |     |     | .75 | .82  |     | .65  |      | 2.59  |      |
| Graterford         | Schuylkill     |              |   |   |     |     |     |     | .02 |     |    | .02 | .26 | .34 |     | .11 |     | .78 | .24 |     |     |     | .06 |     |     | .04 | .02 | .76 | .29  | *   | .12  | 3.06 |       |      |
| Hamburg            | Schuylkill     |              |   |   |     |     |     |     |     |     |    |     |     |     | .30 |     |     | .30 |     |     |     |     |     |     |     |     |     | .50 | .21  | .16 | .12  | .30  | .10   | 2.02 |
| Hanover            | Lower Susq.    |              |   |   | T.  |     | .01 | T.  |     |     |    | .21 | .20 | .20 | .03 | .17 |     | .43 | .07 |     |     |     | .03 |     |     | .03 | .03 | .45 | .33  |     | .09  | .06  | 2.31  |      |
| Harrisburg         | Lower Susq.    |              |   |   | .02 | T.  |     |     |     |     |    | .13 | .20 | .10 | .20 |     |     | .27 | T.  |     |     | .04 |     | T.  | .03 | .02 | T.  | .48 | .15  | .17 | .02  | 1.83 |       |      |
| Hawley             | Upper Del.     |              |   |   |     |     |     |     | .01 |     |    | .15 | .36 | .01 | .11 |     |     | .09 |     |     |     |     |     |     | .08 | .01 |     |     | .44  | .01 |      | .06  | 1.33  |      |
| Holisterville      | Upper Del.     |              |   |   |     |     |     |     |     |     |    | .14 | .43 |     | .05 |     |     | .15 |     |     |     |     |     |     | .27 | .02 |     |     | .46  |     |      | .09  | 1.61  |      |
| Holtwood           | Lower Susq.    |              |   |   |     |     |     |     |     |     |    | .32 | .18 |     | .20 | T.  |     | .04 | .75 |     |     |     | .14 |     |     | .06 | T.  |     | .81  | .10 | T.   | .10  | 2.70  |      |
| Huntingdon         | Juniata        |              |   |   |     |     |     | T.  | .05 |     |    | .30 | T.  | .32 | .10 |     |     | .13 | T.  |     |     |     | T.  |     | .13 |     | .41 | .03 |      | .37 | .03  | 1.87 |       |      |
| Hyndman            | Potomac        |              |   |   |     |     |     | T.  | .01 | T.  |    | .34 | T.  | .11 | .05 | .03 |     | .30 | T.  |     |     |     | .03 |     | .01 |     | .33 | .12 | .15  | .01 | 1.49 |      |       |      |
| Kyletown           | W. B. Susq.    |              |   |   | .05 |     |     | .06 | .22 |     |    | .10 |     |     | .12 |     |     | .05 |     |     |     |     |     | .08 |     | .56 |     | .10 |      | .42 | T.   | 2.13 |       |      |
| Lakeville          | Upper Del.     |              |   |   |     |     |     |     | .02 |     |    | .23 | .35 | T.  | .09 |     |     | .12 | T.  |     |     |     |     |     | .14 | .04 |     |     | .45  | .15 | 1.59 |      |       |      |
| Lancaster          | Lower Susq.    |              |   |   |     |     |     | .26 |     |     |    | .30 | .16 | .27 | .26 |     |     | .50 | .20 |     |     |     |     |     |     |     | .13 |     | .56  | .41 |      | .06  | .03   | 3.14 |
| Lansford           | Lehigh         |              |   |   |     |     |     | .02 | T.  |     |    | .30 | .16 | .27 | .26 |     |     | .50 | .20 |     |     |     |     |     |     |     | .13 |     | .56  | .41 |      | .06  | .03   | 3.14 |
| Lawrenceville      | N. Br. Susq.   |              |   |   |     |     |     | .08 |     | T.  |    | .10 | T.  | .05 |     |     |     | .05 | .05 |     |     |     |     | .02 |     | .01 | T.  |     | .05  |     | .11  | .10  | 0.58  |      |
| Lebanon            | Lower Susq.    |              |   |   |     |     |     | .05 | .03 |     |    | .14 | .30 |     | .06 | T.  |     | .12 |     |     |     |     | .11 |     |     | .13 | .02 |     | .62  | .04 | .01  | .15  | .03   | 1.81 |
| Lewisburg          | W. Br. Susq.   |              |   |   | T.  |     |     | .01 | .09 |     |    | .17 | .10 | .34 | .10 |     |     | .04 |     | .02 |     |     |     |     |     | .18 | .02 |     | .38  | .10 | .25  | .03  | 1.83  |      |
| Lloyd              | do.            |              |   |   |     |     |     |     |     |     |    | .17 | .10 | .34 | .10 |     |     | .04 |     | .02 |     |     |     |     |     | .18 | .02 |     | .38  | .10 | .25  | .03  | 1.83  |      |
| Lock Haven         | W. Br. Susq.   |              |   |   |     |     |     | .07 | .07 |     |    | .10 | .28 | .10 | .03 | .07 |     | .03 |     |     |     |     | .02 |     | .34 | .03 |     | .18 | .06  | .44 | .02  | 1.84 |       |      |
| Lykens             | Susquehanna    |              |   |   |     |     |     | .10 | .02 |     |    | .10 | .28 | .10 | .03 | .07 |     | .03 |     |     |     |     | .02 |     | .34 | .03 |     | .18 | .06  | .44 | .02  | 1.84 |       |      |
| Marcus Hook        | Lower Del.     |              |   |   |     |     |     |     |     |     |    | .40 |     | .15 |     |     |     | .70 |     |     |     |     |     |     |     |     |     | *   | 1.40 |     | .35  | 3.00 |       |      |
| Matamoras          | Upper Del.     |              |   |   |     |     |     |     |     |     |    | .24 |     |     | .55 |     |     | .15 |     |     |     |     |     |     |     | .21 | .08 |     | .67  | .06 |      | .07  | 2.03  |      |
| Mauch Chunk        | Lehigh         |              |   |   |     |     |     | .08 |     |     |    | .21 | .10 | .77 | .06 |     |     | .34 | .03 |     |     |     | .05 |     |     | .09 |     | .37 | .12  | .08 | .08  | 2.29 |       |      |
| Midlinton          | Juniata        |              |   |   |     |     |     | .04 | T.  |     |    | .20 | .09 | .21 | .02 | T.  |     | .11 | .07 |     |     |     | .08 |     |     | .0  |     |     |      |     |      |      |       |      |



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| Stations           | Drainage Basin    | Day of month |   |    |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |      |      |       | Total |      |
|--------------------|-------------------|--------------|---|----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|-------|-------|------|
|                    |                   | 1            | 2 | 3  | 4 | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24   | 25  | 26  | 27  | 28   | 29   | 30   | 31    |       |      |
| Ohio Drainage.     |                   |              |   |    |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |      |      |       |       |      |
| Beaver Dam\|\|\| | Ohio.....         |              |   |    |   | .04 |     | .02 | .14 | .19 |     | .03 | .20 | .11 |     | .12 |     |     |     |     |     |     | .06 |     | .51  | .07 |     |     |      |      | .12  | .72   | 2.33  |      |
| Beaver Falls\|\|\| | Beaver.....       |              |   |    |   | .04 |     | .02 | .08 | .11 | T.  | .03 | .20 | .12 |     | .12 |     |     |     |     |     |     |     | .04 |      | .53 | .01 |     |      |      |      | .05   | .73   | 2.03 |
| Bradford.....      | Allegheny.....    |              |   |    |   | .05 |     | .09 | .40 | .02 | .02 | .15 |     | .08 | .07 |     |     |     |     | .01 |     |     | .01 | .03 | .42  | .10 |     |     |      |      | .33  | .25   | 2.02  |      |
| Brookville.....    | do.....           |              |   |    |   | .03 |     | .08 | .22 | T.  |     | .15 | .25 |     | .30 |     | T.  | T.  | T.  | T.  |     |     | .16 |     | .85  | .10 |     |     | .50  |      | .45  | .3.09 |       |      |
| Butler.....        | Ohio.....         |              |   |    |   | .10 |     | .13 | .10 | T.  |     | .12 | .10 |     | .04 |     |     |     |     |     |     | .09 |     | *   | .89  |     |     |     |      | *    | .79  | 2.36  |       |      |
| Chambersville..... | Allegheny.....    |              |   |    |   | .04 |     | .18 | .33 | T.  |     | .17 | T.  | .42 | .17 | .17 |     |     | .07 |     |     |     | .15 |     | .43  |     |     | .05 | .02  |      | .32  | 2.52  |       |      |
| Clairton\|\|\| | Monongahela.....  |              |   |    |   | .06 |     | .07 | .20 |     |     | .20 | .21 |     | .21 |     |     | .08 |     |     |     | .03 |     | .10 | .03  |     |     | .07 | .03  | .33  | .09  | 1.71  |       |      |
| Claysville.....    | Ohio.....         |              |   |    |   | .08 |     | .17 | .17 | T.  |     | .23 | .03 | .16 | .12 | .06 |     |     | .01 | T.  |     |     | .01 | .09 |      | .18 |     |     | T.   | .01  | .45  | .46   | 2.23  |      |
| Clymer\|\|\| | Conemaugh.....    |              |   |    |   |     | .20 | .20 | .06 |     | .07 |     | .50 | .30 |     |     |     |     |     |     |     |     | .10 |     | .40  |     |     | .21 |      | .35  | .15  | 2.54  |       |      |
| Confluence\|\|\| | Youghiogheny..... |              |   |    |   |     |     | .21 | .05 |     | T.  | .46 | .42 | T.  | .23 | T.  | T.  | .04 | .22 |     |     |     | .30 |     | .20  | .05 |     | .40 |      | T.   | .60  | 3.18  |       |      |
| Corry.....         | Allegheny.....    |              |   |    |   | .06 |     | .29 | .31 | .07 | .08 | .09 | .06 | .05 | .02 |     | .08 | .05 |     |     | T.  |     | T.  | .01 | .57  | .25 |     |     |      | .60  | .93  | 3.53  |       |      |
| Coudersport.....   | Allegheny.....    |              |   |    |   | .07 |     | .06 |     | .25 | .01 | .06 | .21 |     | .12 |     |     | .02 | T.  |     |     |     |     | .28 | .02  |     |     | .03 |      | .30  | .03  | 1.46  |       |      |
| Derry.....         | Conemaugh.....    |              |   |    |   | .11 |     | .12 | .08 |     |     | .28 |     | .47 | .34 | .15 |     | .05 |     |     |     | .05 | .10 |     |      |     |     | .40 |      | .41  | .42  | 2.98  |       |      |
| Donora\|\|\| | Monongahela.....  |              |   |    |   | .06 |     | .04 | .07 | .16 |     | .10 | .20 | .28 | .25 | T.  |     | .02 | .03 |     |     |     | .06 |     | .14  | T.  |     | .04 | .16  | T.   | .45  | .32   | 2.28  |      |
| Ebensburg.....     | Conemaugh.....    |              |   |    |   | .10 |     | T.  | T.  | T.  |     | .30 |     | .07 | T.  |     |     | .11 |     |     |     | T.  | .21 | T.  | .15  |     |     | .11 | T.   | .41  | .40  | 1.89  |       |      |
| Elk Lick.....      | Youghiogheny..... |              |   |    |   |     |     |     |     |     | .10 | .30 | .10 | .10 |     |     |     | .20 |     |     |     |     | .10 | .12 |      |     | .45 |     |      |      |      | 1.77  |       |      |
| Falls Creek.....   | Allegheny.....    |              |   |    |   |     | .03 | .03 | .30 |     | .02 | .18 | .09 |     | .11 |     |     |     |     |     |     |     |     |     |      | .46 | .04 |     |      | .04  | .87  | 2.23  |       |      |
| Franklin\|\|\| | Allegheny.....    |              |   |    |   | .06 |     | .01 | .21 | .08 |     | T.  | .17 | .23 |     | .30 |     |     |     | .02 |     |     | .08 |     | .39  |     |     | .06 |      | .04  | .44  | 2.09  |       |      |
| Freeport\|\|\| | do.....           |              |   |    |   | .04 |     | .16 | .08 |     | .02 | .30 | .44 |     | .38 | T.  | T.  | .03 | .19 |     |     |     | .23 |     | .10  | .02 |     | T.  | .38  | .01  | .14  | 5.8   |       |      |
| Greensburg.....    | Monongahela.....  |              |   |    |   | .08 |     | .14 | .14 | T.  |     | .21 |     | .58 | .27 | .04 |     | .06 | T.  |     |     | T.  | .10 | T.  | .15  |     |     | .23 | .03  | .39  | .43  | 2.85  |       |      |
| Greensburg.....    | Youghiogheny..... |              |   |    |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |      |      |       |       |      |
| Greenville.....    | Beaver.....       |              |   |    |   | .10 |     | .04 | .21 |     | .03 | .10 |     | .5  |     | .04 | T.  |     | .06 | T.  |     |     | T.  | .20 | .50  |     |     |     | .28  | .76  | 2.31 |       |       |      |
| Grove City.....    | do.....           |              |   |    |   | .05 | .01 | T.  | .18 | T.  | .04 | .23 |     | .10 | .14 | .05 |     |     |     |     |     |     | T.  | .20 | .60  | .44 |     |     |      | .54  | .80  | 3.20  |       |      |
| Herr's Isl. Dam\|\|\| | Ohio.....         |              |   |    |   | .01 | T.  | .09 | .10 |     | .05 | .30 | .15 |     | .24 | T.  |     |     | .11 |     |     |     | .05 |     | .26  | T.  |     | .02 | .08  | .46  | 1.92 |       |       |      |
| Ingram.....        | Ohio.....         |              |   |    |   | .05 |     | .11 | .10 | T.  | T.  | .34 | T.  | .16 | .25 | T.  | T.  |     | .05 | T.  |     |     | .01 | .04 | .02  | .28 |     | T.  | .02  | .35  | .40  | 2.18  |       |      |
| Irwin.....         | Monongahela.....  |              |   |    |   | .02 | .12 | .18 |     |     | .23 | T.  | .25 | .15 | .10 |     |     | .10 |     |     |     | .03 | .07 | T.  | .13  | .02 |     | .16 | .07  | .28  | .10  | 2.01  |       |      |
| Johnstown.....     | Conemaugh.....    |              |   |    |   | .04 |     | .10 | .09 | T.  |     | .41 | T.  | .41 | .20 |     | .02 |     | .11 |     |     |     | .13 |     | T.   | .20 |     | .32 | .03  | .40  | .50  | 2.96  |       |      |
| Kane (near) \|\|\| | Allegheny.....    |              |   |    |   | .04 |     | .03 | .28 | .08 | .05 | .20 |     | .12 |     |     | .05 |     |     |     |     |     |     | .13 | .58  |     |     |     | .26  | .32  | 2.14 |       |       |      |
| Kregan\|\|\| | Youghiogheny..... |              |   |    |   | .02 | .15 | .18 | T.  |     | .23 | .44 |     | .38 |     | .04 | T.  | .01 | .06 |     |     |     | .17 |     | .15  | T.  |     | .30 | .10  | .62  | .13  | 2.98  |       |      |
| Lake Lynn\|\|\| | Monongahela.....  |              |   |    |   | .22 |     | .18 | .08 |     | .02 | .23 | .53 | .01 | .43 |     |     | .02 | .14 |     |     |     | .18 | T.  | .12  |     |     | .35 | .02  | .10  | .60  | 3.23  |       |      |
| Linesville\|\|\| | Beaver.....       |              |   |    |   | .02 | T.  | .41 | .13 |     | .04 | .16 |     | .02 |     | .02 |     | .07 |     |     |     |     | T.  | .53 |      |     |     |     | .16  | .12  | .23  | 2.77  |       |      |
| Lock No. 2\|\|\| | Ohio.....         |              |   |    |   | .05 |     | .15 | .07 |     |     | .20 | .16 |     | .12 |     |     | .03 |     |     |     |     |     | .31 | .01  |     | .02 |     | .10  | .60  | 1.82 |       |       |      |
| Lock No. 4\|\|\| | Monongahela.....  |              |   |    |   | .08 | .01 | .09 | .23 |     | T.  | .36 | .24 |     | .27 | .01 |     |     | .06 |     |     |     | .06 |     | .13  | .02 |     | .22 |      | .04  | .58  | 2.40  |       |      |
| Lycippus.....      | Conemaugh.....    |              |   |    |   | .04 | .21 |     | .08 |     | .37 |     | .66 | .23 | .20 |     |     | .08 |     |     |     |     | .57 |     | .12  |     |     | .28 | .09  |      | .56  | 3.49  |       |      |
| McKeesport\|\|\| | Monongahela.....  |              |   |    |   | .02 | T.  | .12 | .20 |     | T.  | .43 |     | .24 |     |     |     | .12 |     |     |     |     | .05 |     | .21  | T.  |     | T.  |      | .06  | .43  | 1.88  |       |      |
| Meadville.....     | Allegheny.....    |              |   |    |   | .06 |     | .20 | .24 | .02 | .03 | .12 |     | .04 |     | .03 | .03 |     |     |     |     | T.  | .08 | .51 |      |     | T.  |     | .20  | .10  | 2.66 |       |       |      |
| Mount Lebanon..... | Ohio.....         |              |   |    |   | .07 |     | .16 | .09 | T.  | .21 | T.  | .16 | .25 | .04 |     | .08 | T.  |     | T.  | T.  | T.  | T.  | .04 | .27  |     |     | T.  |      | .34  | .43  | 2.14  |       |      |
| Natrona\|\|\| | Allegheny.....    |              |   |    |   | .08 | T.  | .20 | .08 | .02 | T.  | .08 | .24 |     | .27 |     |     | .03 |     |     |     |     | .06 |     | .32  | .04 |     | .04 |      | .06  | .50  | 2.02  |       |      |
| New Castle\|\|\| | Beaver.....       |              |   |    |   | .07 |     | .22 | .14 |     | .03 | .20 | .09 | T.  | .12 | .01 |     |     | .02 |     |     |     | .04 | .01 | .77  | .07 |     |     | .16  | .80  | 2.73 |       |       |      |
| Newell.....        | Monongahela.....  |              |   |    |   | .04 |     | .12 |     | .10 |     | .30 | .07 | .28 |     | .20 |     |     |     |     |     |     |     | .08 |      |     |     | .24 | .02  | .39  | .22  | 2.06  |       |      |
| Parkers Landing\|\|\| | Allegheny.....    |              |   | T. |   | T.  | .02 | .02 | .12 | T.  | T.  | .30 | .32 |     | .20 | T.  |     |     |     |     |     |     | .22 |     | .86  | .05 |     | T.  |      | T.   | .76  | 2.87  |       |      |
| Pennline\|\|\| | Beaver.....       |              |   |    |   | .05 | .10 | .39 | .13 | T.  | .05 | .07 |     |     | .03 | .07 | .01 | T.  |     |     |     |     |     | .06 | .50  | T.  |     |     | .16  | 1.65 | 3.27 |       |       |      |
| Pittsburgh**       | Ohio.....         |              |   |    |   | .04 |     | .07 | .08 | T.  |     | .38 | .10 | .03 | .12 | T.  | .01 | .05 |     |     |     |     | .06 |     | .18  | .07 |     | .01 | T.   | .30  | .23  | 1.73  |       |      |
| Punxsutawney\|\|\| | Allegheny.....    |              |   |    |   |     | T.  | .41 | .48 | T.  | T.  | .30 | .42 |     | .22 |     |     | .05 |     |     |     |     | .48 |     | 1.31 | T.  |     | T.  |      | .52  | 4.14 |       |       |      |
| Ridgway.....       | do.....           |              |   |    |   | .02 | T.  | .02 | .24 | T.  | T.  | .04 | .09 | .18 |     | .14 | T.  |     |     | T.  | T.  |     |     | .04 | .58  | T.  |     | .02 |      | .47  | 1.84 |       |       |      |
| Saltsburg\|\|\| | Conemaugh.....    |              |   |    |   | .03 |     | .15 | .18 |     |     | .31 | .37 |     | .32 |     |     | .18 |     | .12 |     |     | .11 |     | .18  | T.  |     | .12 |      | .01  | .49  | 2.39  |       |      |
| Sharon\|\|\| | Beaver.....       |              |   |    |   | .02 | .01 | .01 | .13 | T.  | .03 | .14 | .07 |     | .04 | T.  |     |     |     |     |     |     |     | .65 | .04  |     |     |     | .03  | .91  | 2.08 |       |       |      |
| Smethport.....     | Allegheny.....    |              |   |    |   | .03 |     | T.  | .01 |     | T.  | .22 | T.  |     | .15 |     |     |     |     |     |     |     |     | .40 | T.   |     |     |     |      | .46  |      | 1.27  |       |      |
| Somerset.....      | Youghiogheny..... |              |   | T. |   |     | .13 | .02 |     |     | .22 | .06 | .31 | .07 | .06 |     |     | .14 | T.  |     |     | .03 | .16 |     | .04  | T.  |     | .37 | .05  | .31  | .22  | 2.19  |       |      |
| Springdale\|\|\| | Allegheny.....    |              |   |    |   | .09 | .01 | .12 | .14 |     | .02 | .26 | .20 |     | .30 |     |     | .04 |     |     |     |     | .08 |     | .30  | .03 |     | .05 | .05  | .50  | 2.19 |       |       |      |
| Uniontown.....     | Monongahela.....  |              |   |    |   | .06 |     | .13 | .09 |     | .21 | .05 | .61 | .28 | .12 |     |     | .10 |     |     |     |     | .11 |     | .10  |     |     | .26 | .11  | .39  | .52  | 3.14  |       |      |
| Unity Reservoir\|\|\| | Youghiogheny..... |              |   |    |   | .13 |     | .15 | .18 |     | .30 | T.  | .58 | .20 | .20 | T.  |     | .10 | T.  |     |     |     | T.  | .12 |      | .15 |     | .18 | .03  | .37  | .48  | 3.17  |       |      |
| Vandergrift\|\|\| | Conemaugh.....    |              |   |    |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |      |      |       |       |      |
| Warren.....        | Allegheny.....    |              |   |    |   | .07 | .06 | .40 |     | .05 | .25 |     | .02 | .05 | .05 |     | .05 | .02 |     |     |     |     | .02 | .35 | .32  |     |     |     | .40  | .52  | 2.63 |       |       |      |
| Waynesburg.....    | Monongahela.....  |              |   |    |   | .08 |     | .10 |     |     | .15 |     | .70 | .20 |     |     | .20 |     |     |     |     |     |     |     | .14  |     |     | .22 |      | .41  | .48  | 2.68  |       |      |
| Westford\|\|\| | Beaver.....       |              |   |    |   | .02 |     | .50 |     |     | .08 | .14 | .07 | .05 | .04 | .04 | .08 | .13 | .08 | .05 | .04 |     | .10 | .64 |      |     |     |     | 1.30 | .02  | 3.88 |       |       |      |
| West Newton\|\|\| | Youghiogheny..... |              |   |    |   | .04 | T.  | .07 | .13 |     | T.  | .26 | .33 |     | .30 |     |     | T.  | .05 |     |     |     | .06 |     | .11  | T.  |     | .22 |      | T.   | .52  | 2.09  |       |      |
| Lake Drainage.     |                   |              |   |    |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |      |      |       |       |      |
| Erie***            | Lake Erie.....    |              |   |    |   | .02 |     | .29 | .08 | T.  | .10 | .18 | .04 | T.  | T.  | .08 | .07 | T.  |     |     | T.  | T.  |     | T.  |      | .66 | T.  |     |      |      |      |       |       |      |

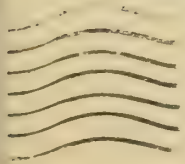


Daily Temperatures for December, 1932

| Stations           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |
|--------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| Allentown.....     | Maximum | 62 | 53 | 64 | 55 | 52 | 57 | 63 | 38 | 37 | 25 | 31 | 37 | 32 | 30 | 27 | 20  | 18 | 30 | 28 | 34 | 40 | 49 | 42 | 43 | 48 | 44 | 38 | 41 | 48 | 60 | 42.2 |      |
|                    | Minimum | 30 | 28 | 31 | 34 | 35 | 29 | 33 | 36 | 21 | 22 | 20 | 21 | 26 | 25 | 16 | 8   | 10 | 8  | 3  | 5  | 7  | 10 | 19 | 22 | 38 | 38 | 39 | 31 | 31 | 25 | 36   |      |
| Altoona.....       | Maximum | 60 | 60 | 61 | 56 | 55 | 53 | 62 | 48 | 37 | 27 | 23 | 34 | 31 | 28 | 23 | 15  | 16 | 28 | 34 | 38 | 43 | 44 | 44 | 58 | 67 | 58 | 34 | 47 | 45 | 36 | 55   |      |
|                    | Minimum | 29 | 32 | 44 | 37 | 31 | 32 | 40 | 25 | 15 | 8  | 17 | 22 | 18 | 17 | 15 | -1  | 3  | 14 | 11 | 18 | 14 | 34 | 25 | 41 | 40 | 31 | 26 | 31 | 22 | 27 | 26   |      |
| Bedford.....       | Maximum | 60 | 62 | 63 | 60 | 57 | 58 | 60 | 45 | 39 | 34 | 25 | 40 | 35 | 34 | 28 | 16  | 19 | 30 | 34 | 41 | 46 | 47 | 45 | 60 | 68 | 64 | 37 | 46 | 47 | 40 | 57   |      |
|                    | Minimum | 21 | 20 | 37 | 35 | 29 | 31 | 32 | 28 | 16 | 21 | 20 | 24 | 23 | 22 | 14 | 3   | 10 | 15 | -3 | 6  | 1  | 36 | 19 | 41 | 40 | 35 | 27 | 25 | 24 | 26 | 29   |      |
| Bellefonte.....    | Maximum | 60 | 56 | 59 | 57 | 55 | 54 | 60 | 38 | 34 | 21 | 30 | 36 | 28 | 23 | 17 | 17  | 26 | 31 | 37 | 42 | 46 | 45 | 44 | 64 | 54 | 35 | 39 | 30 | 44 | 53 | 40.7 |      |
|                    | Minimum | 20 | 21 | 33 | 35 | 29 | 27 | 36 | 20 | 17 | 18 | 19 | 19 | 16 | 6  | 7  | 0   | 7  | 1  | -1 | 7  | 1  | 22 | 18 | 36 | 38 | 25 | 25 | 26 | 23 | 22 | 15   |      |
| Brookville.....    | Maximum | 49 | 56 | 57 | 58 | 56 | 54 | 58 | 33 | 30 | 20 | 33 | 34 | 28 | 23 | 21 | 17  | 19 | 26 | 28 | 37 | 40 | 44 | 50 | 53 | 66 | 42 | 40 | 48 | 52 | 55 | 41.3 |      |
|                    | Minimum | 13 | 12 | 16 | 31 | 31 | 23 | 23 | 31 | 18 | 11 | 12 | 19 | 15 | 5  | 16 | -14 | 4  | 0  | -7 | -4 | 1  | 19 | 18 | 37 | 38 | 21 | 20 | 18 | 14 | 23 | 14.7 |      |
| Butler.....        | Maximum | 52 | 58 | 56 | 58 | 56 | 56 | 52 | 51 | 30 | 29 | 35 | 34 | 30 | 23 | 21 | 15  | 21 | 26 | 25 | 39 | 39 | 44 | 54 | 57 | 65 | 60 | 45 | 43 | 50 | 48 | 44   |      |
|                    | Minimum | 16 | 20 | 37 | 30 | 31 | 27 | 34 | 25 | 21 | 17 | 20 | 28 | 16 | 9  | 11 | -6  | 5  | 8  | 0  | 1  | 10 | 34 | 20 | 43 | 40 | 30 | 22 | 30 | 15 | 34 | 28   |      |
| Carlisle.....      | Maximum | 40 | 42 | 70 | 55 | 58 | 54 | 50 | 50 | 40 | 35 | 26 | 39 | 39 | 32 | 17 | 17  | 28 | 23 | 28 | 35 | 52 | 43 | 43 | 46 | 47 | 38 | 40 | 48 | 40 | 51 | 40.6 |      |
|                    | Minimum | 27 | 23 | 28 | 33 | 38 | 26 | 31 | 30 | 16 | 21 | 21 | 25 | 20 | 23 | 15 | 5   | 10 | -2 | -5 | 2  | 0  | 31 | 22 | 30 | 36 | 34 | 28 | 33 | 24 | 28 | 38   |      |
| Catawissa.....     | Maximum | 56 | 57 | 64 | 62 | 55 | 52 | 61 | 52 | 34 | 30 | 32 | 40 | 36 | 32 | 25 | 21  | 17 | 31 | 28 | 36 | 45 | 50 | 45 | 49 | 52 | 48 | 38 | 40 | 35 | 37 | 64   |      |
|                    | Minimum | 22 | 23 | 34 | 35 | 29 | 36 | 25 | 17 | 20 | 21 | 29 | 23 | 15 | 11 | 4  | 9   | 11 | 1  | 14 | 5  | 34 | 19 | 32 | 25 | 34 | 26 | 31 | 26 | 27 | 30 | 22.7 |      |
| Chambersburg.....  | Maximum | 58 | 53 | 68 | 57 | 58 | 52 | 59 | 53 | 40 | 31 | 25 | 41 | 36 | 38 | 31 | 21  | 18 | 32 | 30 | 39 | 38 | 51 | 48 | 43 | 57 | 56 | 37 | 42 | 43 | 38 | 55   |      |
|                    | Minimum | 22 | 23 | 33 | 33 | 36 | 31 | 33 | 28 | 20 | 20 | 20 | 24 | 27 | 24 | 16 | 8   | 13 | 7  | 8  | 8  | 7  | 33 | 19 | 33 | 35 | 36 | 29 | 35 | 29 | 26 | 37   | 24.4 |
| Chambersville..... | Maximum | 57 | 59 | 52 | 59 | 47 | 56 | 60 | 49 | 31 | 28 | 30 | 37 | 31 | 26 | 23 | 12  | 20 | 27 | 36 | 42 | 42 | 55 | 58 | 65 | 62 | 40 | 45 | 51 | 57 | 62 | 43.2 |      |
|                    | Minimum | 17 | 23 | 44 | 37 | 29 | 28 | 46 | 26 | 18 | 16 | 19 | 27 | 15 | 10 | 11 | -7  | 1  | 7  | 5  | 4  | 16 | 33 | 23 | 44 | 47 | 34 | 24 | 36 | 18 | 32 | 25   |      |
| Claysville.....    | Maximum | 60 | 60 | 58 | 57 | 56 | 54 | 60 | 43 | 33 | 28 | 32 | 37 | 28 | 25 | 23 | 13  | 25 | 26 | 31 | 40 | 41 | 47 | 60 | 64 | 66 | 64 | 47 | 57 | 53 | 64 | 45.1 |      |
|                    | Minimum | 20 | 29 | 47 | 47 | 32 | 36 | 42 | 26 | 16 | 19 | 21 | 25 | 16 | 13 | 12 | -10 | 7  | 7  | 12 | 7  | 18 | 33 | 28 | 49 | 54 | 33 | 26 | 35 | 19 | 32 | 22   |      |
| Clearfield.....    | Maximum |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
|                    | Minimum |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Coatesville.....   | Maximum | 59 | 61 | 64 | 57 | 57 | 59 | 62 | 54 | 40 | 33 | 27 | 38 | 37 | 34 | 32 | 20  | 17 | 30 | 31 | 36 | 38 | 47 | 44 | 45 | 58 | 54 | 38 | 44 | 47 | 48 | 58   |      |
|                    | Minimum | 37 | 34 | 37 | 31 | 35 | 30 | 46 | 27 | 20 | 21 | 22 | 26 | 27 | 27 | 17 | 10  | 12 | 15 | 10 | 13 | 8  | 29 | 20 | 38 | 41 | 32 | 31 | 37 | 27 | 36 | 37   |      |
| Corry.....         | Maximum | 57 | 54 | 53 | 51 | 46 | 45 | 55 | 30 | 29 | 25 | 34 | 32 | 21 | 19 | 17 | 14  | 23 | 26 | 33 | 38 | 36 | 43 | 49 | 44 | 61 | 54 | 40 | 52 | 52 | 46 | 46   |      |
|                    | Minimum | 18 | 33 | 46 | 25 | 29 | 29 | 30 | 20 | 19 | 16 | 23 | 20 | 7  | 5  | 8  | 3   | 2  | 6  | 12 | 17 | 24 | 31 | 26 | 30 | 35 | 30 | 21 | 27 | 18 | 34 | 19   |      |
| Coudersport.....   | Maximum | 55 | 54 | 56 | 53 | 49 | 47 | 58 | 54 | 26 | 22 | 34 | 35 | 27 | 25 | 20 | 15  | 16 | 24 | 28 | 36 | 39 | 43 | 49 | 49 | 62 | 58 | 38 | 43 | 45 | 43 | 51   |      |
|                    | Minimum | 15 | 17 | 45 | 32 | 28 | 25 | 44 | 23 | 15 | 13 | 13 | 13 | 7  | 5  | 9  | -10 | 10 | 8  | 4  | 20 | 10 | 30 | 11 | 33 | 39 | 32 | 18 | 30 | 14 | 30 | 25   |      |
| Emporium.....      | Maximum | 49 | 55 | 59 | 56 | 53 | 49 | 59 | 41 | 30 | 22 | 29 | 36 | 30 | 25 | 18 | 18  | 20 | 24 | 25 | 35 | 41 | 45 | 52 | 48 | 63 | 54 | 38 | 42 | 45 | 44 | 53   |      |
|                    | Minimum | 17 | 18 | 43 | 32 | 26 | 41 | 21 | 21 | 14 | 21 | 22 | 10 | 5  | -6 | 1  | 10  | 10 | -2 | 17 | 4  | 26 | 25 | 38 | 38 | 28 | 20 | 27 | 21 | 25 | 21 | 20.2 |      |
| Erie.....          | Maximum | 57 | 56 | 56 | 51 | 57 | 60 | 32 | 25 | 21 | 35 | 35 | 22 | 23 | 21 | 17 | 25  | 23 | 29 | 37 | 40 | 39 | 53 | 64 | 64 | 38 | 41 | 35 | 53 | 47 | 40 | 40.4 |      |
|                    | Minimum | 32 | 47 | 50 | 36 | 33 | 40 | 32 | 24 | 18 | 17 | 18 | 16 | 15 | 12 | 13 | 10  | 12 | 17 | 16 | 23 | 33 | 34 | 35 | 38 | 36 | 32 | 30 | 26 | 24 | 37 | 12   |      |
| Franklin.....      | Maximum | 57 | 58 | 59 | 55 | 55 | 58 | 54 | 46 | 37 | 32 | 36 | 33 | 24 | 22 | 18 | 20  | 22 | 27 | 25 | 39 | 40 | 45 | 52 | 62 | 65 | 55 | 49 | 58 | 52 | 55 | 40   |      |
|                    | Minimum | 16 | 16 | 22 | 38 | 30 | 27 | 33 | 24 | 21 | 16 | 17 | 20 | 12 | 8  | -8 | -3  | 2  | 6  | 4  | 4  | 30 | 19 | 26 | 40 | 33 | 20 | 22 | 15 | 15 | 31 | 18.4 |      |
| Freeland.....      | Maximum | 53 | 58 | 60 | 55 | 49 | 53 | 59 | 47 | 30 | 25 | 33 | 33 | 28 | 25 | 21 | 14  | 11 | 29 | 32 | 42 | 45 | 40 | 42 | 65 | 54 | 32 | 39 | 48 | 41 | 54 | 39.7 |      |
|                    | Minimum | 32 | 40 | 45 | 40 | 29 | 39 | 42 | 21 | 15 | 14 | 15 | 20 | 15 | 12 | 10 | -2  | 3  | 7  | 13 | 15 | 22 | 32 | 29 | 32 | 34 | 32 | 26 | 32 | 27 | 31 | 29   |      |
| Gettysburg.....    | Maximum | 64 | 59 | 68 | 58 | 56 | 52 | 62 | 56 | 42 | 27 | 26 | 42 | 27 | 26 | 40 | 37  | 39 | 27 | 23 | 34 | 32 | 41 | 37 | 50 | 42 | 45 | 54 | 55 | 41 | 50 | 41   |      |
|                    | Minimum | 33 | 28 | 38 | 34 | 37 | 31 | 40 | 32 | 19 | 21 | 21 | 25 | 28 | 27 | 21 | 9   | 13 | 10 | 2  | 11 | 6  | 31 | 20 | 57 | 35 | 39 | 30 | 33 | 26 | 33 | 40   |      |
| Greensburg.....    | Maximum | 60 | 59 | 55 | 60 | 55 | 51 | 62 | 45 | 32 | 28 | 35 | 38 | 30 | 28 | 31 | 19  | 25 | 29 | 30 | 40 | 44 | 42 | 57 | 63 | 67 | 55 | 44 | 45 | 59 | 50 | 60   |      |
|                    | Minimum | 22 | 29 | 46 | 40 | 30 | 38 | 45 | 25 | 19 | 20 | 24 | 30 | 24 | 15 | 11 | -5  | 6  | 13 | 13 | 10 | 18 | 34 | 27 | 47 | 54 | 32 | 28 | 40 | 21 | 36 | 24   |      |
| Grove City.....    | Maximum | 51 | 53 | 53 | 53 | 51 | 49 | 49 | 38 | 36 | 22 | 28 | 34 | 29 | 21 | 16 | 21  | 24 | 27 | 35 | 39 | 41 | 51 | 57 | 63 | 59 | 41 | 47 | 49 | 47 | 54 | 40.6 |      |
|                    | Minimum | 26 | 39 | 29 | 43 | 29 | 38 | 28 | 20 | 16 | 16 | 21 | 13 | 7  | 9  | -4 | 6   | 20 | 12 | 14 | 24 | 31 | 39 | 42 | 52 | 33 | 27 | 29 | 27 | 33 | 21 | 24.9 |      |
| Hamburg.....       | Maximum | 44 | 55 | 58 | 58 | 53 |    | 62 |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
|                    | Minimum | 25 | 26 | 28 | 29 | 30 |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Harrisburg.....    | Maximum | 60 | 52 | 66 | 55 | 55 | 52 | 61 | 46 | 39 | 30 | 27 | 38 | 35 | 35 | 30 | 20  | 18 | 30 | 27 | 37 | 37 | 49 | 42 | 45 | 47 | 51 | 36 | 42 | 53 | 60 | 42.5 |      |
|                    | Minimum | 39 | 31 | 38 | 41 | 38 | 38 | 46 | 28 | 24 | 22 | 22 | 27 | 28 | 24 | 14 | 9   | 11 | 15 | 8  | 15 | 13 | 33 | 26 | 37 | 38 | 32 | 31 | 35 | 28 | 36 | 24   |      |
| Hawley.....        | Maximum | 58 | 57 | 59 | 58 | 51 | 54 | 61 | 56 | 32 | 29 | 22 | 37 | 35 | 29 | 25 | 18  | 10 | 27 | 28 | 36 | 44 | 45 | 44 | 46 | 65 | 60 | 37 | 38 | 51 | 42 | 58   |      |
|                    | Minimum | 22 | 18 | 27 | 26 | 35 | 24 | 43 | 25 | 13 | 14 | 18 | 20 | 19 | 15 | 9  | 1   | -7 | 2  | -6 | 10 | -2 | 35 | 15 | 33 | 37 | 36 | 20 | 31 | 17 | 24 | 19.6 |      |
| Huntingdon.....    | Maximum | 63 | 49 | 65 | 58 | 60 | 56 | 63 | 50 | 38 | 32 | 26 | 39 | 33 | 35 | 30 | 18  | 18 | 32 | 36 | 42 | 39 | 49 | 41 | 44 | 61 | 61 | 36 | 42 | 33 | 53 | 43.1 |      |
|                    | Minimum | 19 | 19 | 34 | 31 | 36 | 28 | 33 | 28 | 11 | 20 | 20 | 25 | 20 | 15 | 16 | 4   | 9  | 1  | -1 | 3  | 2  | 34 | 20 | 36 | 38 | 36 | 25 | 32 | 26 | 26 | 31   |      |
| Johnstown.....     | Maximum | 51 | 58 | 61 | 58 | 54 | 51 | 60 | 42 | 36 | 26 | 30 | 38 | 34 | 29 | 25 | 15  | 23 | 27 | 34 | 39 | 46 | 44 | 56 | 58 | 67 | 52 | 37 | 47 | 48 | 43 | 56   |      |



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# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION,  
GEORGE S. BLISS, Meteorologist.  
PHILADELPHIA, PA.

VOL. XXXVII. ANNUAL SUMMARY, 1932. No. 13.

## GENERAL SUMMARY.

The year as a whole was abnormally warm and dry. It was the sixth consecutive year with an excess in temperature, and the third with a deficiency of precipitation. The mean temperature has been exceeded only three times in the last 44 years. January was the warmest of record with an excess of 12.6 degrees, while the February mean has been exceeded only three times. Temperature departures for the remainder of the year were not large. March was moderately cold with a deficiency of 4.3 degrees. Summer temperatures were mostly on the high side of the normal, but there was little intense heat. Precipitation for the year was 92 per cent of the normal, yet a summer drought developed, that, in many respects, was the most severe of record, not being exceeded by the notorious summer of 1930. A rainfall shortage was recorded each month from April to September inclusive, with an accumulated deficiency for that period of 7.23 inches. The deficiency for the same period in 1930 was 7.35 inches, but the general effect on crop growth in that season was less severe by reason of a normal rainfall in June, covering a vital period in crop development. Another reason for the disastrous effects of the 1932 drought was the depleted water supply in the deep soil, accumulating over a period of three years. This brought about a condition which permitted the surface water to seep away rapidly, and light to moderate rains were of little lasting benefit. The first complaints of the drought were received at the end of May, when there were many reports that the winter grains were heading on short straw, and that pastures and meadows were showing a need of moisture. Alfalfa, a deep rooting plant, was a single exception, and a good crop was ready for harvesting. By the end of June the drought had become serious, especially in a belt about sixty miles in width across the western end of the State. In addition to the drought damage, one of the most destructive June frosts of record occurred on the 8th. Freezing temperatures occurred at one-fourth of the stations, and many gardens were practically ruined, while field crops suffered considerably. The drought continued to intensify through July, and conditions became alarming. Much of the oats crop was headed on straw too short to cut. Pastures and meadows became short and weedy, and turned brown in some sections. Corn was least damaged of all of the crops, and early plantings generally made a good growth. Local thundershowers, which constituted most of the rainfall, were severe in character, and considerable damage by winds and lightning was re-

ported. August, which may be considered as a crop maturing month, brought no relief. Late planted corn developed only nubbins, and was mostly cut for ensilage. The second crop of hay was very light. Pastures developed an October aspect, and the potato crop seemed to be at a standstill. September was extremely dry, and ended one of the poorest crop seasons ever known in Pennsylvania. The soil became dust dry in many regions to a depth of five or six feet. October and November rains were excessive, breaking the drought, soaking the deep soil, and generally replenishing the water supply. December precipitation averaged a little more than two-thirds of the normal amount, with the heaviest falls in the western counties, while the northern tier of counties showed the lightest amounts. A coast storm on the 17-18th was attended by heavy snows in southeastern sections of the State, and brought the State average snowfall very close to the December normal.

## COMPARATIVE DATA (ANNUAL)

| Year     | Temperature |           |         |        | Precipitation |           |                 |              |                   | Number of days                 |       |               |
|----------|-------------|-----------|---------|--------|---------------|-----------|-----------------|--------------|-------------------|--------------------------------|-------|---------------|
|          | Mean        | Departure | Highest | Lowest | Average       | Departure | Greatest annual | Least annual | Average snow-fall | .01 inch or more precipitation | Clear | Partly cloudy |
| 1888.... | 47.9        | -2.1      | 100     | -31    | 45.91         | +3.53     | 64.11           | 22.80        | 39.7              | 130                            | 110   | 140           |
| 1889.... | 49.8        | -0.2      | 96      | -27    | 52.67         | +10.29    | 73.00           | 31.72        | 22.3              | 136                            | 112   | 143           |
| 1890.... | 50.5        | +0.5      | 101     | -18    | 51.28         | +8.90     | 71.00           | 34.02        | 55.5              | 141                            | 106   | 116           |
| 1891.... | 50.6        | +0.6      | 100     | -14    | 45.65         | +3.27     | 64.00           | 32.21        | 34.1              | 124                            | 124   | 108           |
| 1892.... | 49.3        | -0.7      | 103     | -28    | 41.30         | -1.08     | 54.63           | 32.07        | 54.0              | 125                            | 123   | 106           |
| 1893.... | 48.7        | -1.3      | 102     | -25    | 44.26         | +1.88     | 58.56           | 30.62        | 61.6              | 126                            | 116   | 120           |
| 1894.... | 51.3        | +1.3      | 103     | -28    | 43.69         | +1.31     | 57.43           | 28.17        | 63.1              | 117                            | 132   | 116           |
| 1895.... | 49.4        | -0.6      | 104     | -26    | 33.51         | -8.87     | 40.80           | 21.17        | 39.7              | 104                            | 143   | 115           |
| 1896.... | 50.5        | +0.5      | 101     | -21    | 41.95         | -0.43     | 53.52           | 32.29        | 42.4              | 114                            | 124   | 113           |
| 1897.... | 50.0        | 0.0       | 103     | -25    | 42.73         | +0.35     | 55.16           | 19.83        | 37.2              | 124                            | 128   | 106           |
| 1898.... | 51.3        | +1.3      | 107     | -16    | 45.49         | +3.11     | 56.95           | 34.07        | 38.8              | 130                            | 123   | 107           |
| 1899.... | 50.0        | 0.0       | 101     | -39    | 40.93         | -1.45     | 51.13           | 28.36        | 47.9              | 112                            | 134   | 111           |
| 1900.... | 51.5        | +1.5      | 104     | -23    | 37.31         | -5.07     | 55.68           | 25.73        | 33.3              | 111                            | 130   | 114           |
| 1901.... | 49.4        | -0.6      | 107     | -22    | 45.54         | +3.16     | 56.83           | 29.81        | 35.4              | 123                            | 118   | 111           |
| 1902.... | 49.6        | -0.4      | 100     | -24    | 47.29         | +4.91     | 65.05           | 29.79        | 60.3              | 125                            | 123   | 115           |
| 1903.... | 49.6        | -0.4      | 99      | -17    | 46.27         | +3.89     | 57.16           | 35.90        | 37.3              | 121                            | 130   | 105           |
| 1904.... | 47.5        | -2.5      | 99      | -42    | 40.44         | -1.94     | 56.72           | 31.05        | 50.8              | 127                            | 133   | 104           |
| 1905.... | 49.4        | -0.6      | 99      | -25    | 43.34         | +0.96     | 59.38           | 33.53        | 40.9              | 128                            | 133   | 109           |
| 1906.... | 50.8        | +0.8      | 99      | -21    | 42.78         | +0.40     | 61.56           | 32.55        | 45.0              | 129                            | 128   | 104           |
| 1907.... | 48.5        | -1.5      | 98      | -23    | 45.45         | +3.07     | 64.05           | 31.79        | 54.5              | 132                            | 136   | 102           |
| 1908.... | 50.9        | +0.9      | 104     | -29    | 39.58         | -2.80     | 50.26           | 26.72        | 54.4              | 108                            | 157   | 104           |
| 1909.... | 50.2        | +0.2      | 100     | -19    | 37.38         | -5.00     | 48.79           | 27.91        | 41.4              | 117                            | 140   | 102           |
| 1910.... | 49.9        | -0.1      | 99      | -22    | 38.99         | -3.39     | 51.45           | 31.08        | 67.6              | 119                            | 135   | 99            |
| 1911.... | 51.1        | +1.1      | 105     | -18    | 45.52         | +3.14     | 67.61           | 29.25        | 39.2              | 133                            | 131   | 93            |
| 1912.... | 49.0        | -1.0      | 100     | -35    | 44.13         | +1.75     | 60.95           | 33.08        | 38.6              | 126                            | 133   | 99            |
| 1913.... | 51.7        | +1.7      | 102     | -9     | 43.25         | +0.87     | 56.06           | 32.48        | 24.4              | 125                            | 148   | 84            |
| 1914.... | 49.3        | -0.7      | 101     | -28    | 38.24         | -4.14     | 54.33           | 28.83        | 64.2              | 122                            | 144   | 97            |
| 1915.... | 50.1        | +0.1      | 99      | -26    | 44.26         | +1.88     | 61.96           | 33.40        | 42.8              | 131                            | 141   | 99            |
| 1916.... | 49.6        | -0.4      | 103     | -31    | 40.98         | -1.40     | 58.50           | 31.05        | 51.4              | 133                            | 153   | 100           |
| 1917.... | 47.3        | -2.7      | 105     | -29    | 41.71         | -0.67     | 62.68           | 23.65        | 45.6              | 130                            | 143   | 110           |
| 1918.... | 50.2        | +0.2      | 108     | -34    | 41.25         | -1.13     | 60.60           | 29.97        | 43.4              | 124                            | 156   | 98            |
| 1919.... | 51.1        | +1.1      | 104     | -23    | 46.66         | +4.23     | 58.30           | 31.55        | 26.2              | 136                            | 152   | 96            |
| 1920.... | 49.2        | -0.8      | 99      | -23    | 40.63         | -1.75     | 58.70           | 26.67        | 46.0              | 101                            | 146   | 102           |
| 1921.... | 53.1        | +3.1      | 104     | -15    | 41.80         | -0.58     | 62.91           | 30.08        | 30.2              | 130                            | 156   | 96            |
| 1922.... | 51.4        | +1.4      | 100     | -19    | 34.88         | -7.50     | 50.96           | 26.27        | 39.1              | 119                            | 155   | 97            |
| 1923.... | 50.4        | +0.4      | 103     | -20    | 39.17         | -3.21     | 52.84           | 23.75        | 40.7              | 125                            | 158   | 91            |
| 1924.... | 48.4        | -1.6      | 102     | -25    | 43.26         | +0.88     | 55.80           | 30.21        | 44.1              | 121                            | 151   | 97            |
| 1925.... | 50.3        | +0.3      | 104     | -29    | 37.72         | -4.66     | 55.47           | 25.95        | 44.2              | 124                            | 149   | 101           |
| 1926.... | 48.7        | -1.3      | 105     | -20    | 43.11         | +0.73     | 57.03           | 30.06        | 49.8              | 135                            | 136   | 99            |
| 1927.... | 50.9        | +0.9      | 100     | -24    | 47.30         | +4.92     | 63.93           | 32.88        | 30.3              | 140                            | 142   | 91            |
| 1928.... | 50.5        | +0.5      | 99      | -23    | 42.06         | -0.32     | 54.42           | 29.52        | 37.8              | 131                            | 145   | 102           |
| 1929.... | 50.5        | +0.5      | 101     | -20    | 44.21         | +1.83     | 58.69           | 33.13        | 36.7              | 129                            | 144   | 99            |
| 1930.... | 51.2        | +1.2      | 108     | -24    | 28.82         | -13.56    | 38.11           | 19.60        | 27.6              | 110                            | 153   | 94            |
| 1931.... | 52.8        | +2.8      | 105     | -16    | 37.86         | -5.02     | 51.03           | 27.04        | 22.5              | 123                            | 151   | 94            |
| 1932.... | 51.6        | +1.6      | 105     | -14    | 39.02         | -3.36     | 51.74           | 25.89        | 27.8              | 121                            | 152   | 92            |
| Period.  | 50.0        | .....     | 108     | -42    | 42.38         | .....     | 73.00           | 19.60        | 43.1              | 125                            | 136   | 105           |



## Climatological Data for the Year 1932

| STATION            | Counties     | Temperature (degrees Fahrenheit) |                         |             |         |          |        | Precipitation (inches) |                         |                    |                  |       |               | Sky    |                           |                              |                   |                           |                    | Prevailing direction of wind |
|--------------------|--------------|----------------------------------|-------------------------|-------------|---------|----------|--------|------------------------|-------------------------|--------------------|------------------|-------|---------------|--------|---------------------------|------------------------------|-------------------|---------------------------|--------------------|------------------------------|
|                    |              | Elevation, feet                  | Length of record, years | Annual mean | Highest | Date     | Lowest | Date                   | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month  | Total snowfall (unmelted) | Number days with .01 or more | Number clear days | Number partly cloudy days | Number cloudy days |                              |
| Atlantic Drainage. |              |                                  |                         |             |         |          |        |                        |                         |                    |                  |       |               |        |                           |                              |                   |                           |                    |                              |
| Allentown          | Lehigh       | 254                              | 10                      | 51.6        | 97      | Sept. 1  | 3      | Dec. 19                | 20                      | 39.64              | 7.05             | Nov.  | 0.95          | Sept.  | 12.9                      | 117                          | 202               | 68                        | 96                 | ne                           |
| Altoona            | Blair        | 1,615                            | 36                      | 50.4        | 96      | do. 1    | -1     | do. 16                 | 45                      | 38.19              | 5.66             | Mar.  | 0.85          | do.    | 44.2                      | 129                          | 244               | 66                        | 56                 | w.                           |
| Arendtsville       | Adams        | 700                              | 10                      | 52.1        | 98      | July 1   | 4      | do. 16                 | 10                      | 48.47              | 10.08            | Oct.  | 1.58          | Feb.   | 20.2                      | 92                           | 227               | 47                        | 92                 | n.                           |
| Bedford            | Bedford      | 1,060                            | 1                       | 52.8        | 101     | Sept. 1  | -3     | do. 19                 | 1                       | 34.46              | 4.91             | do.   | 1.27          | Apr.   | 24.7                      | 109                          | 180               | 71                        | 115                | nw.                          |
| Bellefonte         | Center       | 1,050                            | 15                      | 49.0        | 96      | do. 1    | -1     | do. 19                 | 24                      | 33.47              | 5.42             | do.   | 0.62          | Sept.  | 34.6                      | 127                          | 90                | 106                       | 170                | .....                        |
| Bethlehem          | Northampton  | 364                              | 29                      | 54.4        | 101     | do. 1    | 7      | do. 19                 | 47                      | 39.11              | 7.01             | Nov.  | 0.89          | do.    | 14.5                      | 124                          | 177               | 41                        | 148                | .....                        |
| Carlisle           | Cumberland   | 467                              | 66                      | 53.4        | 102     | do. 1    | -5     | do. 19                 | 43                      | 45.70              | 10.30            | Oct.  | 0.89          | do.    | 41.5                      | 107                          | 212               | 54                        | 100                | nw.                          |
| Catawissa          | Columbia     | 520                              | 36                      | 52.5        | 101     | do. 1    | 1      | do. 9                  | 36                      | 37.93              | 6.28             | June  | 0.78          | Apr.   | 22.4                      | 105                          | 204               | 48                        | 114                | .....                        |
| Chambersburg       | Franklin     | 580                              | 33                      | 54.3        | 102     | Aug. 31  | 3      | do. 19                 | 36                      | 39.67              | 6.39             | Oct.  | 1.40          | Feb.   | 21.9                      | 115                          | 118               | 142                       | 106                | ne.                          |
| Coatesville        | Chester      | 380                              | 45                      | 53.6        | 96      | do. 31†  | 8      | do. 21                 | 45                      | 45.68              | 7.42             | Nov.  | 1.09          | Sept.  | 17.0                      | 117                          | 185               | 49                        | 132                | nw.                          |
| Colebrook          | Lebanon      | 560                              | 17                      | 51.0        | 95      | Sept. 1  | 1      | Mar. 9                 | 23                      | 42.24              | 7.25             | Oct.  | 1.23          | Apr.   | 24.8                      | 129                          | 196               | 53                        | 117                | w.                           |
| Emporium           | Cameron      | 1,050                            | 45                      | 49.1        | 92      | Aug. 31† | -6     | Dec. 15                | 45                      | 44.64              | 6.56             | Jan.  | 1.67          | Dec.   | 30.0                      | 138                          | 113               | 118                       | 135                | nw.                          |
| Ephrata            | Lancaster    | 380                              | 32                      | 54.6        | 100     | Sept. 1  | -1     | do. 19                 | 40                      | 41.52              | 7.40             | Oct.  | 1.56          | Feb.   | 17.7                      | 112                          | 161               | 70                        | 135                | n.                           |
| Freeland           | Luzerne      | 1,970                            | 39                      | 48.6        | 91      | do. 1    | -2     | do. 16                 | 39                      | 46.98              | 8.99             | do.   | 1.80          | Sept.  | 70.1                      | 146                          | 114               | 98                        | 154                | nw.                          |
| George School      | Bucks        | 190                              | 26                      | 54.1        | 96      | Aug. 31  | 2      | do. 19                 | 26                      | 46.19              | 8.62             | Nov.  | 1.28          | Feb.   | 16.3                      | 119                          | 164               | 92                        | 110                | w.                           |
| Gettysburg         | Adams        | 553                              | 57                      | 54.8        | 98      | do. 31   | -2     | do. 19                 | 59                      | 49.62              | 8.82             | Oct.  | 1.61          | do.    | 19.0                      | 131                          | 175               | 84                        | 107                | s                            |
| Gordon             | Schuylkill   | 840                              | 29                      | 50.9        | 97      | Sept. 1  | -3     | do. 19                 | 29                      | 45.39              | 10.34            | do.   | 1.22          | Apr.   | 40.0                      | 122                          | 177               | 75                        | 114                | w.                           |
| Gouldsboro         | Wayne        | 1,875                            | 9                       | 42.8        | 82      | do. 1    | -10    | do. 19                 | 18                      | 51.52              | 8.54             | do.   | 1.41          | do.    | 51.8                      | 93                           | 191               | 92                        | 83                 | w.                           |
| Hamburg            | Berks        | 535                              | 39                      | 51.3        | 96      | Aug. 6†  | 0      | do. 19                 | 39                      | 44.29              | 6.67             | do.   | 1.56          | do.    | 14.5                      | 103                          | 175               | 107                       | 84                 | w.                           |
| Hanover            | York         | 600                              | 28                      | 55.9        | 98      | do. 31   | 8      | do. 18                 | 28                      | 46.83              | 6.61             | Mar.  | 0.88          | Sept.  | 20.5                      | 120                          | 183               | 64                        | 119                | s.                           |
| Harrisburg         | Dauphin      | 374                              | 44                      | 54.1        | 98      | Sept. 1  | 8      | do. 19                 | 63                      | 39.77              | 8.96             | Oct.  | 1.08          | Aug.   | 21.0                      | 118                          | 113               | 128                       | 125                | w.                           |
| Hawley             | Wayne        | 900                              | 14                      | 48.4        | 97      | do. 1    | -7     | do. 17                 | 14                      | 45.33              | 7.10             | do.   | 1.28          | Apr.   | 53.3                      | 124                          | 172               | 93                        | 101                | w.                           |
| Holtwood           | Lancaster    | 200                              | 13                      | 56.7        | 100     | do. 1†   | 8      | do. 19                 | 17                      | 38.76              | 6.36             | do.   | 1.46          | Feb.   | 23.0                      | 116                          | 148               | 114                       | 104                | .....                        |
| Huntingdon         | Huntingdon   | 650                              | 45                      | 52.0        | 100     | Aug. 31† | -1     | do. 19                 | 45                      | 36.50              | 5.23             | Mar.  | 1.16          | Sept.  | 30.0                      | 101                          | 162               | 87                        | 117                | nw.                          |
| Hyndman            | Bedford      | 977                              | 20                      | 53.7        | 105     | Sept. 1  | 1      | do. 19                 | 20                      | 34.04              | 4.97             | do.   | 0.90          | do.    | 21.9                      | 117                          | 124               | 69                        | 172                | .....                        |
| Kylertown          | Clearfield   | 1,737                            | 3                       | 48.8        | 95      | do. 1    | -11    | do. 16                 | 3                       | 33.68              | 4.89             | July  | 0.70          | do.    | 33.1                      | 123                          | 140               | 142                       | 84                 | w.                           |
| Lancaster          | Lancaster    | 255                              | 29                      | 51.0        | 100     | Aug. 31  | -5     | do. 18†                | 45                      | 48.22              | 8.39             | Oct.  | 1.41          | Apr.   | 19.7                      | 97                           | 209               | 77                        | 80                 | nw.                          |
| Lawrenceville      | Tioga        | 1,000                            | 35                      | 49.3        | 100     | Sept. 1  | -6     | do. 17                 | 35                      | 32.42              | 5.51             | do.   | 0.58          | Dec.   | 33.0                      | 97                           | 142               | 102                       | 122                | .....                        |
| Lebanon            | Lebanon      | 469                              | 44                      | 53.0        | 99      | do. 1    | 3      | do. 19                 | 48                      | 39.06              | 7.90             | do.   | 1.34          | Feb.   | 16.9                      | 131                          | 168               | 114                       | 84                 | w.                           |
| Lewisburg          | Union        | 450                              | 56                      | 53.3        | 105     | do. 1    | -1     | do. 18                 | 56                      | 38.23              | 7.42             | do.   | 1.11          | Sept.  | 21.7                      | 128                          | 145               | 99                        | 122                | w.                           |
| Lock Haven         | Clinton      | 580                              | 42                      | 53.8        | 103     | Aug. 31  | 1      | do. 16                 | 42                      | 38.36              | 5.69             | do.   | 0.86          | do.    | 36.8                      | 141                          | 105               | 153                       | 108                | sw.                          |
| Lykens             | Dauphin      | 680                              | 17                      | 52.3        | 102     | Sept. 1  | 1      | do. 16                 | 17                      | 42.83              | 6.52             | do.   | 1.26          | Feb.   | 22.2                      | 128                          | 201               | 81                        | 84                 | nw.                          |
| Marcus Hook        | Delaware     | 50                               | 6                       | 57.7        | 101     | do. 1    | 13     | do. 16                 | 6                       | 43.33              | 7.25             | Nov.  | 1.25          | July   | 13.0                      | 74                           | 214               | 60                        | 82                 | ne.                          |
| Mauch Chunk        | Carbon       | 600                              | 43                      | 50.4        | 103     | do. 1    | -1     | do. 19                 | 43                      | 47.57              | 7.71             | Oct.  | 1.14          | Apr.   | 17.6                      | 105                          | 173               | 63                        | 130                | w.                           |
| Mifflintown        | Juniata      | 445                              | 29                      | 52.7        | 99      | do. 1    | -1     | do. 19                 | 29                      | 38.40              | 6.48             | do.   | 0.91          | Sept.  | 22.4                      | 120                          | 145               | 50                        | 171                | w.                           |
| Montrose           | Susquehanna  | 1,658                            | 29                      | 46.9        | 94      | do. 1    | -12    | do. 17                 | 29                      | 39.58              | 5.90             | do.   | 0.51          | Dec.   | 54.0                      | 89                           | 139               | 90                        | 137                | w.                           |
| Mount Pocono       | Monroe       | 1,720                            | 28                      | 42.6        | 86      | do. 1    | -2     | Mar. 9†                | 28                      | 42.94              | 8.44             | do.   | 0.79          | Sept.  | 56.0                      | 103                          | 165               | 60                        | 141                | nw.                          |
| Muncy Valley       | Sullivan     | 1,045                            | 20                      | 48.3        | 97      | Aug. 31  | -10    | Dec. 16                | 20                      | 42.79              | 7.51             | do.   | 1.40          | Apr. 1 | 30.3                      | 111                          | 185               | 72                        | 109                | nw.                          |
| Neshaminy Falls    | Bucks        | 60                               | 17                      | 52.8        | 94      | July 13  | 0      | do. 20                 | 17                      | 51.74              | 8.18             | Nov.  | 1.23          | Sept.  | 16.9                      | 124                          | 198               | 67                        | 101                | w.                           |
| Palmerton          | Carbon       | 398                              | 6                       | 51.1        | 96      | Sept. 1  | 1      | do. 19                 | 15                      | 40.32              | 7.05             | do.   | 0.87          | do.    | 19.2                      | 109                          | 173               | 85                        | 108                | sw.                          |
| Philadelphia       | Philadelphia | 114                              | 61                      | 57.1        | 97      | do. 1    | 15     | do. 16                 | 61                      | 44.52              | 7.45             | do.   | 1.05          | do.    | 16.0                      | 116                          | 110               | 122                       | 134                | nw.                          |
| Phila. Navy Yard   | Philadelphia | 12                               | 16                      | 55.1        | 94      | Aug. 31  | 14     | do. 16†                | 16                      | 47.60              | 7.90             | do.   | 1.50          | Feb.   | 17.7                      | 117                          | .....             | .....                     | .....              | .....                        |
| Phoenixville       | Chester      | 100                              | 22                      | 55.3        | 99      | do. 6    | 4      | do. 19                 | 22                      | 45.93              | 8.82             | do.   | 1.03          | do.    | 16.5                      | 99                           | 188               | 125                       | 53                 | w.                           |
| Quakertown         | Bucks        | 496                              | 45                      | 51.9        | 94      | do. 31   | -6     | do. 19                 | 47                      | 44.64              | 7.94             | do.   | 1.55          | Sept.  | 13.2                      | 112                          | 153               | 103                       | 110                | nw.                          |
| Reading            | Berks        | 514                              | 35                      | 54.2        | 97      | do. 31   | 10     | do. 16                 | 55                      | 46.96              | 6.81             | Aug.  | 0.66          | do.    | 19.2                      | 113                          | 101               | 120                       | 145                | nw.                          |
| Scranton           | Lackawanna   | 805                              | 32                      | 50.7        | 97      | Sept. 1  | 4      | do. 17                 | 32                      | 34.01              | 5.10             | Oct.  | 0.59          | Apr.   | 28.8                      | 121                          | 70                | 166                       | 130                | sw.                          |
| Selinsgrove        | Snyder       | 455                              | 43                      | 52.5        | 100     | do. 1    | -3     | do. 19                 | 43                      | 35.13              | 7.70             | do.   | 0.48          | Sept.  | 24.6                      | 114                          | 140               | 121                       | 105                | w.                           |
| Shawmont           | Philadelphia | 51                               | 14                      | 55.2        | 96      | do. 2    | 6      | do. 19                 | 36                      | 44.76              | 8.03             | Nov.  | 0.91          | do.    | 20.5                      | 121                          | 139               | 114                       | 113                | nw.                          |
| State College      | Center       | 1,217                            | 44                      | 50.3        | 97      | do. 1    | -1     | do. 16                 | 48                      | 38.18              | 5.83             | July  | 0.59          | do.    | 30.1                      | 117                          | 143               | 120                       | 103                | w.                           |
| Stroudsburg        | Monroe       | 500                              | 16                      | 50.1        | 95      | Aug. 31† | -4     | do. 19                 | 17                      | 42.94              | 9.05             | Oct.  | 0.54          | do.    | 22.4                      | 108                          | 176               | 61                        | 129                | w.                           |
| Towanda            | Bradford     | 754                              | 38                      | 49.3        | 97      | Sept. 1  | 0      | do. 17                 | 38                      | 36.19              | 6.53             | do.   | 0.97          | Apr.   | 42.1                      | 131                          | 59                | 156                       | 151                | sw.                          |
| Wellsboro          | Tioga        | 1,419                            | 52                      | 47.9        | 103     | do. 1    | -4     | do. 16†                | 62                      | 28.24              | 4.50             | do.   | 0.68          | Sept.  | 55.3                      | 100                          | 179               | 70                        | 117                | w.                           |
| West Chester       | Chester      | 455                              | 77                      | 54.3        | 93      | Aug. 31† | 11     | do. 16                 | 83                      | 47.07              | 7.64             | Nov.  | 1.63          | Feb.   | 24.5                      | 98                           | 174               | 99                        | 93                 | w.                           |
| Williamsport       | Lycoming     | 521                              | 43                      | 52.1        | 101     | do. 31   | 4      | do. 19                 | 46                      | 37.35              | 5.71             | Oct.  | 1.46          | Dec.   | 26.9                      | 129                          | 125               | 79                        | 162                | w.                           |
| York               | York         | 400                              | 33                      | 53.6        | 101     | Sept. 1  | -1     | do. 18                 | 44                      | 41.74              | 8.00             | do.   | 1.14          | Apr.   | 25.0                      | 119                          | 188               | 98                        | 80                 | w.                           |
| Ohio Drainage.     |              |                                  |                         |             |         |          |        |                        |                         |                    |                  |       |               |        |                           |                              |                   |                           |                    |                              |
| Beaver Dam         | Beaver       | 700                              | 19                      | 52.1        | 98      | July 20† | -4     | Dec. 16                | 40                      | 32.10              | 6.07             | Jan.  | 0.69          | Feb.   | .....                     | 147                          | 82                | 130                       | 154                | sw.                          |
| Brookville         | Jefferson    | 1,173                            | 21                      | 47.2        | 98      | Sept. 2  | -14    | do. 16                 | 43                      | 38.43              | 7.48             | do.   | 1.49          | do.    | .....                     | 126                          | 206               | 48                        | 112                | .....                        |
| Butler             | Butler       | 1,077                            | 9                       | 51.1        | 98      | do. 1    | -6     | do. 16                 | 19                      | 33.54              | 6.06             | do.   | 0.71          | do.    | 23.4                      | 97                           | 160               | 113                       | 93                 | w.                           |
| Chambersville      | Indiana      | 1,047                            | 3                       | 51.6        | 96      | do. 1    | -7     | do. 16                 | 7                       | 38.86              | 4.86             | do.   | 1.45          | Sept.  | 26.3                      | 135                          | 145               | 41                        | 180                | nw.                          |
| Claysville         | Washington   | 1,150                            | 28                      |             |         |          |        |                        |                         |                    |                  |       |               |        |                           |                              |                   |                           |                    |                              |



Monthly and Annual Precipitation for the Year 1932, with Departures from the Normal

| STATIONS            | January           |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |        |
|---------------------|-------------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|--------|
|                     | Precipitation     | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |        |
| DELAWARE BASIN.     | Allentown.        | 3.42      | -0.09         | 1.57      | -1.55         | 4.53      | +1.31         | 2.22      | -1.54         | 4.73      | +1.19         | 2.30      | -1.15         | 2.09      | -2.69         | 3.17      | -1.44         | 0.95      | -2.40         | 5.40      | +2.06         | 7.05      | +4.37         | 2.21      | -1.22         | 39.64     | -3.15  |
|                     | Ardmore.          | 4.73      | +1.14         | 1.95      | -1.44         | 6.35      | +2.82         | 2.12      | -1.93         | 3.93      | +0.08         | 2.78      | -1.20         | 2.22      | -2.07         | 3.54      | -1.92         | 1.63      | -2.32         | 6.89      | +3.97         | 8.51      | +4.97         | 2.68      | -0.63         | 47.33     | +1.47  |
|                     | Bethlehem.        | 3.55      | 0.00          | 1.77      | -1.60         | 4.63      | +1.22         | 1.52      | -1.71         | 4.19      | +0.62         | 2.32      | -1.72         | 2.02      | -2.58         | 2.92      | -1.38         | 0.89      | -2.45         | 5.92      | +2.71         | 7.01      | +3.91         | 2.37      | -0.95         | 39.11     | -3.93  |
|                     | Coatesville.      | 4.70      | +0.73         | 1.64      | -2.32         | 6.27      | +2.19         | 1.72      | -2.05         | 4.08      | +0.14         | 2.47      | -1.60         | 2.56      | -2.26         | 4.66      | +0.29         | 1.09      | -2.75         | 5.88      | +2.47         | 7.42      | +4.26         | 3.09      | -0.82         | 45.58     | -1.72  |
|                     | Conshohocken.     | 4.07      | .....         | 1.62      | .....         | 7.16      | .....         | 2.21      | .....         | 3.71      | .....         | 1.55      | .....         | 4.44      | .....         | *3.63     | .....         | 0.90      | .....         | 6.68      | .....         | 6.46      | .....         | *2.87     | .....         | 45.27     | .....  |
|                     | Doylesstown.      | 4.07      | +0.57         | 1.06      | -2.62         | 4.56      | +0.82         | 2.24      | -1.73         | 4.15      | +0.25         | 3.39      | -0.53         | 4.00      | -0.88         | 2.90      | -2.33         | 0.86      | -2.94         | 5.41      | +1.69         | 9.11      | +5.96         | 2.44      | -1.25         | 44.19     | -2.95  |
|                     | Freeland.         | 4.55      | +0.98         | 2.25      | -0.95         | 4.84      | +1.27         | 2.20      | -2.16         | 3.74      | -0.64         | 5.29      | +0.75         | 2.41      | -2.35         | 2.47      | -2.18         | 1.80      | -1.98         | 8.99      | +5.12         | 6.56      | +2.88         | 1.88      | -1.58         | 46.98     | -0.84  |
|                     | George School.    | 3.93      | +0.77         | 1.28      | -1.81         | 5.75      | +2.58         | 2.72      | -0.91         | 2.86      | -0.65         | 3.41      | +0.04         | 3.75      | -0.59         | 2.40      | -2.20         | 2.94      | -0.33         | 5.18      | +2.04         | 8.62      | +6.03         | 3.35      | -0.02         | 46.19     | +4.95  |
|                     | Gouldsboro.       | 5.61      | +2.42         | 3.17      | +0.07         | 2.75      | -0.29         | 1.41      | -2.40         | 5.34      | +1.17         | 5.31      | +0.32         | 4.23      | -0.79         | 3.58      | -0.76         | 2.65      | -0.99         | 8.54      | +4.71         | 6.34      | +3.07         | 2.59      | -0.24         | 51.52     | +6.29  |
|                     | Graterford.       | 4.39      | +1.33         | 1.39      | -1.86         | 5.55      | +2.72         | 2.23      | -1.38         | 3.73      | +0.68         | 4.23      | +0.77         | 3.33      | -1.13         | 3.68      | +0.11         | 1.37      | -1.23         | 5.53      | +2.99         | 6.90      | +4.21         | 3.06      | +0.34         | 45.39     | +7.55  |
|                     | Hamburg.          | 4.39      | +1.33         | 1.39      | -1.86         | 5.55      | +2.72         | 2.23      | -1.38         | 3.73      | +0.68         | 4.23      | +0.77         | 3.33      | -1.13         | 3.68      | +0.11         | 1.37      | -1.23         | 5.53      | +2.99         | 6.90      | +4.21         | 3.06      | +0.34         | 45.39     | +7.55  |
|                     | Hawley.           | 4.81      | +1.30         | 1.74      | -1.69         | 4.52      | +0.72         | 1.56      | -2.56         | 4.76      | +0.35         | 4.05      | -0.16         | 2.48      | -2.44         | 3.94      | -1.06         | 1.69      | -2.36         | 6.67      | +2.88         | 6.05      | +3.17         | 2.02      | -1.57         | 44.29     | -3.42  |
|                     | Hollisterville.   | 3.70      | +1.12         | 3.06      | +0.52         | 4.88      | +2.10         | 1.28      | -2.15         | 5.40      | +1.87         | 4.56      | +0.77         | 3.05      | -1.01         | 4.08      | +0.03         | 1.58      | -1.78         | 7.10      | +3.82         | 5.31      | +2.59         | 1.33      | -1.55         | 45.33     | +6.33  |
|                     | Lakeville.        | 4.52      | .....         | 4.24      | .....         | 4.75      | .....         | 1.78      | .....         | 4.04      | .....         | 2.79      | .....         | 2.31      | .....         | 4.51      | .....         | 1.04      | .....         | 7.02      | .....         | 5.83      | .....         | 1.61      | .....         | 44.44     | .....  |
|                     | Lansford.         | 4.23      | .....         | 3.38      | .....         | 5.12      | .....         | 1.52      | .....         | 4.64      | .....         | 4.75      | .....         | 2.80      | .....         | 4.83      | .....         | 1.00      | .....         | 7.14      | .....         | 5.70      | .....         | 1.59      | .....         | 46.70     | .....  |
|                     | Lansford.         | 3.49      | +0.35         | 1.99      | -0.77         | 3.57      | +0.57         | 1.43      | -2.13         | 3.59      | 0.00          | 4.89      | +0.33         | 3.08      | -1.22         | 4.19      | -0.19         | 1.09      | -2.73         | 8.19      | +4.10         | 6.65      | +3.93         | 1.43      | -1.91         | 43.59     | +0.33  |
|                     | Marcus Hook.      | 5.34      | .....         | 2.53      | .....         | 6.62      | .....         | 2.73      | .....         | 3.23      | .....         | 2.95      | .....         | 1.25      | .....         | 1.36      | .....         | 1.44      | .....         | 5.63      | .....         | 7.25      | .....         | 3.00      | .....         | 43.33     | .....  |
|                     | Matamoras.        | 4.27      | +1.57         | 3.21      | +0.64         | 3.85      | +0.77         | 1.72      | -1.74         | 4.66      | +1.38         | 3.43      | -0.54         | 3.40      | -0.25         | 3.35      | -0.41         | 1.72      | -1.54         | 7.26      | +4.12         | 5.36      | +2.58         | 2.03      | -0.95         | 44.26     | +5.63  |
|                     | Mauch Chunk.      | 1.77      | +1.03         | 2.31      | -1.43         | 5.59      | +1.40         | 1.14      | -2.82         | 4.07      | +0.06         | 4.59      | +0.17         | 2.94      | -1.95         | 3.45      | -1.27         | 1.30      | -2.70         | 7.71      | +3.92         | 7.37      | +3.93         | 2.29      | -1.71         | 47.57     | -1.37  |
|                     | Mount Pocono.     | 2.30      | -0.93         | 2.06      | -0.96         | 5.08      | +1.55         | 1.52      | -2.48         | 1.71      | -2.28         | 7.08      | +1.83         | 3.66      | -1.51         | 3.24      | -1.00         | 0.79      | -4.17         | 8.44      | +3.58         | 5.47      | +2.46         | 1.59      | -1.99         | 42.94     | -5.90  |
|                     | Neshaminy Falls.  | 4.47      | +1.35         | 1.85      | -1.01         | 7.28      | +4.51         | 3.16      | -0.22         | 2.57      | -1.06         | 4.88      | +1.12         | 2.80      | -1.85         | 6.34      | +1.52         | 1.23      | -2.17         | 5.99      | +2.83         | 8.18      | +5.76         | 2.99      | -0.28         | 51.74     | +10.50 |
|                     | Palmerston.       | 3.67      | +1.10         | 1.61      | -0.62         | 4.56      | +1.97         | 0.91      | -2.31         | 4.03      | +0.18         | 3.72      | 0.51          | 1.76      | -2.55         | 3.12      | -0.59         | 0.87      | -2.60         | 6.92      | +3.78         | 7.05      | +4.16         | 2.10      | -0.25         | 40.32     | +1.76  |
|                     | Paupack.          | 3.24      | +0.60         | 3.42      | +0.80         | 3.11      | 0.00          | 1.38      | -2.50         | 3.89      | +0.31         | 4.73      | +0.75         | 3.47      | -0.77         | 4.93      | +0.27         | 1.11      | -2.91         | 8.51      | +4.71         | 5.03      | +2.11         | 1.50      | -1.45         | 44.32     | +1.92  |
|                     | Philadelphia.     | 4.69      | +1.39         | 1.58      | -1.85         | 7.43      | +4.04         | 2.37      | -0.68         | 3.81      | +0.55         | 3.79      | +1.55         | 2.25      | -1.90         | 3.07      | -1.55         | 1.05      | -2.09         | 4.30      | +1.49         | 7.45      | +4.74         | 3.13      | -0.30         | 44.52     | +4.00  |
|                     | Philadelphia-Gtn. | 4.45      | .....         | 1.42      | .....         | 7.26      | .....         | 2.56      | .....         | 3.41      | .....         | 3.66      | .....         | 3.07      | .....         | 4.06      | .....         | 1.20      | .....         | 4.76      | .....         | 7.78      | .....         | 3.13      | .....         | 46.76     | .....  |
| Phila. Navy Yard.   | 4.31              | +1.20     | 1.50          | -1.86     | 6.41          | +3.29     | 2.45          | -0.94     | 3.95          | +0.74     | 5.95          | +2.14     | 3.48          | -1.44     | 3.10          | -1.44     | 1.84          | -1.31     | 4.38          | +1.74     | 7.90          | +5.55     | 2.38          | -0.72     | 47.60         | +6.90     |        |
| Phila-Point Breeze. | 4.90              | .....     | 1.52          | .....     | 6.28          | .....     | 2.21          | .....     | 4.03          | .....     | 2.00          | .....     | 2.07          | .....     | 4.22          | .....     | 1.09          | .....     | 4.54          | .....     | 6.87          | .....     | 2.70          | .....     | 42.43         | .....     |        |
| Phoenixville.       | 4.55              | +0.89     | 1.03          | -2.23     | 6.37          | +3.06     | 1.74          | -1.79     | 3.35          | -0.61     | 2.63          | -0.98     | 2.61          | -2.29     | 4.52          | -0.14     | 1.25          | -2.00     | 6.17          | +3.00     | 8.82          | +5.75     | 2.89          | -0.23     | 45.93         | +2.63     |        |
| Pleasant Mount.     | 6.55              | +2.30     | 3.79          | +0.29     | 3.98          | +0.17     | 1.79          | -2.17     | 3.48          | -1.17     | 5.00          | +0.25     | 4.56          | -1.04     | 3.80          | -0.50     | 3.43          | -0.30     | 6.65          | +2.51     | 6.11          | +2.06     | 1.87          | -1.17     | 51.01         | +1.23     |        |
| Pottstown.          | 4.12              | +0.76     | 1.30          | -2.14     | 6.17          | +2.62     | 1.77          | -1.50     | 4.78          | +0.65     | 3.14          | -0.62     | 4.13          | -0.90     | 3.69          | -0.32     | 1.84          | -1.43     | 5.98          | +2.88     | 6.87          | +3.84     | 2.72          | -0.72     | 46.51         | +3.12     |        |
| Pottsville.         | *4.33             | +0.49     | 2.13          | -1.46     | 6.00          | +2.09     | 1.41          | -2.27     | 3.87          | -0.47     | 4.53          | +0.11     | *2.56         | -2.28     | 3.54          | -1.32     | 1.51          | -2.49     | 9.77          | +5.79     | 6.08          | +2.73     | *1.96         | -1.87     | 47.71         | -0.95     |        |
| Quakertown.         | 4.38              | +0.90     | 1.58          | -2.06     | 4.72          | +1.19     | 1.83          | -1.52     | 4.73          | +0.85     | 1.90          | -1.72     | 3.11          | -1.85     | 2.59          | -1.38     | 1.55          | -2.08     | 7.44          | +4.10     | 7.94          | +4.80     | 2.47          | -0.97     | 44.64         | +0.26     |        |
| Reading.            | 3.56              | -0.01     | 1.60          | -1.94     | 5.97          | +2.45     | 1.26          | -2.01     | 4.94          | +1.27     | 4.10          | +0.55     | 4.23          | -0.03     | 6.81          | +2.60     | 0.66          | -2.55     | 5.64          | +2.52     | 5.71          | +2.98     | 2.48          | -1.08     | 46.96         | +4.75     |        |
| Shawmont.           | 4.65              | +1.37     | 1.51          | -1.76     | 5.65          | +2.24     | 2.49          | -0.81     | 3.26          | -0.06     | 3.05          | -0.44     | 3.09          | -1.27     | 2.79          | -2.24     | 0.91          | -2.37     | 6.58          | +3.42     | 8.03          | +5.21     | 2.75          | -0.82     | 44.76         | +2.47     |        |
| Snow Hill.          | 4.54              | .....     | 2.47          | .....     | 3.97          | .....     | 1.43          | .....     | 2.84          | .....     | 5.45          | .....     | 4.82          | .....     | 2.49          | .....     | 1.52          | .....     | 8.89          | .....     | 5.60          | .....     | *2.09         | .....     | 44.10         | .....     |        |
| Stroudsburg.        | 3.70              | +0.59     | 2.15          | -0.84     | 4.15          | +0.50     | 0.86          | -3.20     | 3.44          | -0.05     | 4.03          | -0.47     | 2.25          | -2.92     | 2.50          | -2.47     | 0.54          | -2.35     | 9.05          | +5.34     | 8.11          | +4.83     | 2.16          | -1.17     | 43.94         | -2.21     |        |
| West Chester.       | 5.59              | +1.80     | 1.63          | -2.19     | 7.46          | +3.56     | 1.65          | -2.14     | 4.26          | -0.06     | 2.49          | -1.78     | 1.68          | -3.02     | 2.99          | -1.64     | 2.09          | -1.80     | 6.60          | +2.96     | 7.64          | +4.11     | 2.99          | -0.91     | 47.07         | -1.11     |        |
| Westgrove.          | 4.29              | .....     | 1.63          | .....     | 5.93          | .....     | 1.86          | .....     | 4.13          | .....     | 2.62          | .....     | 1.72          | .....     | 3.57          | .....     | 0.68          | .....     | 6.25          | .....     | 5.81          | .....     | 2.76          | .....     | 41.25         | .....     |        |
| Zionsville.         | 5.73              | .....     | 1.81          | .....     | 5.30          | .....     | 2.19          | .....     | 4.42          | .....     | 2.66          | .....     | 1.81          | .....     | 3.71          | .....     | 1.86          | .....     | 5.92          | .....     | 7.51          | .....     | 2.93          | .....     | 45.85         | .....     |        |
| SUSQUEHANNA BASIN.  | Altoona.          | 4.22      | +1.63         | 1.40      | -0.81         | 5.66      | +2.94         | 1.79      | -1.34         | 2.68      | -1.26         | 1.63      | +0.77         | 3.84      | +0.30         | 2.42      | -0.91         | 0.85      | -2.02         | 4.81      | +2><          |           |               |           |               |           |        |



Monthly and Annual Precipitation for the Year 1932, with Departures from the Normal.—Continued

|                           | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|---------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
| STATIONS                  | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| Claysville.....           | 4.66          | +1.36     | 0.98          | -1.53     | 4.37          | +1.04     | 1.20          | -2.26     | 2.76          | -0.86     | 2.59          | -1.82     | 5.92          | +1.74     | 3.20          | -0.59     | 2.33          | -0.88     | 3.41          | +0.12     | 4.25          | +1.83     | 2.23          | -0.75     | 37.90         | -2.60     |
| Clymer.....               | 4.98          | +1.59     | 1.38          | -1.71     | 3.23          | -0.04     | 1.41          | -2.55     | 2.20          | -2.02     | 4.49          | -0.78     | 3.65          | -1.87     | 3.19          | -0.68     | 1.59          | -1.97     | 3.99          | +0.89     | 2.30          | -1.03     | 2.54          | -0.53     | 34.95         | -10.68    |
| Confluence.....           | 3.96          | -0.01     | 2.55          | -0.84     | 5.34          | +1.55     | 1.96          | -1.61     | 4.18          | +0.21     | 3.03          | -1.55     | 9.65          | +4.98     | 3.36          | -0.65     | 0.98          | -2.13     | 3.47          | +0.49     | 2.71          | -0.27     | 3.18          | -0.81     | 44.37         | -0.14     |
| Corry.....                | 5.63          | +2.17     | 1.39          | -1.86     | 2.57          | -0.77     | 2.96          | -0.71     | 4.71          | +0.43     | 3.75          | -1.57     | 2.55          | -1.08     | 1.97          | -1.63     | 2.53          | -1.45     | 6.17          | +2.14     | 4.59          | +0.37     | 3.58          | +0.10     | 42.35         | -3.86     |
| Coudersport.....          | 5.04          | +1.72     | 1.77          | -1.12     | 3.45          | -0.28     | 2.24          | -1.46     | 3.62          | +0.14     | 3.98          | -0.44     | 2.71          | -1.28     | 2.15          | -1.04     | 1.74          | -0.96     | 4.58          | +2.55     | 3.53          | +0.36     | 1.46          | -0.93     | 36.22         | -2.74     |
| Cresson.....              | 4.08          | +0.47     | 1.35          | -2.11     | 6.10          | +2.99     | 1.10          | -3.17     | 2.38          | -1.57     | 5.05          | +0.75     | 3.90          | -1.45     | 2.32          | -0.79     | 0.89          | -2.27     | 3.62          | +0.70     | 2.99          | -0.35     | 1.66          | -1.55     | 35.44         | -8.35     |
| Derry.....                | 5.04          | -1.16     | 1.50          | -1.64     | 5.41          | +1.53     | 1.20          | -2.58     | 4.40          | +0.80     | 2.42          | -2.47     | 3.63          | -0.93     | 3.00          | -1.03     | 1.14          | -1.97     | 3.33          | +0.15     | 3.00          | +0.27     | 2.98          | -0.30     | 37.05         | -7.01     |
| Donora.....               | 3.99          | .....     | 0.83          | .....     | 4.25          | .....     | 0.69          | .....     | 2.71          | .....     | 1.17          | .....     | 4.20          | .....     | 1.81          | .....     | 1.10          | .....     | 2.59          | .....     | 3.59          | .....     | 2.28          | .....     | 29.21         | .....     |
| Ebensburg.....            | 3.56          | +0.42     | 1.40          | -1.48     | 3.73          | +1.07     | 1.71          | -1.79     | 2.70          | -1.38     | 4.06          | -0.64     | 3.79          | -0.35     | 2.40          | -1.52     | 0.78          | -2.73     | 4.24          | +0.79     | 2.36          | -0.85     | 1.89          | -0.65     | 32.62         | -9.11     |
| Elk Lick.....             | 5.18          | +1.52     | 1.81          | -1.57     | 7.25          | +3.99     | 1.58          | -2.46     | 3.63          | -0.37     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | 3.43          | +0.28     | 1.77          | -1.32     | .....         | .....     |
| Falls Creek.....          | 5.55          | +2.27     | 1.56          | -1.22     | 3.64          | +0.69     | 2.04          | -1.46     | 2.74          | -1.25     | 3.79          | -1.35     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Freeport.....             | 6.34          | +2.76     | 1.56          | -1.27     | 2.89          | -0.54     | 3.49          | +0.38     | 3.42          | -0.16     | 2.86          | -1.65     | 4.55          | +0.05     | 2.64          | -1.06     | 1.99          | -1.59     | 3.41          | +0.31     | 5.35          | +2.23     | 2.23          | -1.10     | 40.73         | -1.64     |
| Greensburg.....           | 5.54          | +1.78     | 1.05          | -2.11     | 2.86          | -0.72     | 1.84          | -1.54     | 1.94          | -1.93     | 2.74          | -1.57     | 5.72          | +1.52     | 2.04          | -1.64     | 0.82          | -2.21     | 3.47          | +0.59     | 3.98          | +1.03     | 2.09          | -1.36     | 34.09         | -8.16     |
| Greensburg.....           | 3.76          | +0.24     | 1.54          | -1.40     | 4.59          | +1.09     | 1.36          | -1.79     | 3.08          | -0.67     | 2.95          | -1.67     | 4.08          | -0.49     | 2.07          | -1.58     | 1.23          | -1.81     | 2.74          | -0.13     | 3.62          | +0.86     | 3.10          | +0.05     | 34.12         | -7.30     |
| Greenville.....           | 5.04          | +1.46     | 0.90          | -2.15     | 4.98          | +1.91     | 1.36          | -2.30     | 3.14          | -0.73     | 2.98          | -1.40     | 4.88          | +1.18     | 2.62          | -1.33     | 0.94          | -2.27     | 2.97          | -0.17     | 3.14          | +0.66     | 2.85          | -0.27     | 35.80         | -5.41     |
| Greenville.....           | 6.53          | +3.02     | 1.76          | -0.78     | 2.35          | -1.15     | 3.73          | +0.32     | 3.00          | -0.58     | 2.36          | -1.62     | 4.61          | +0.33     | 3.00          | -0.40     | 2.31          | -1.16     | 3.34          | -0.09     | 3.47          | +0.40     | 2.31          | -0.59     | 38.77         | -2.30     |
| Grove City.....           | 7.04          | +3.74     | 1.56          | -0.78     | 1.63          | -1.48     | 2.80          | -0.77     | 3.19          | -0.94     | 1.33          | -2.70     | 4.01          | -0.31     | 2.96          | -0.30     | 2.62          | -0.94     | 3.50          | +0.12     | 3.71          | +0.67     | 3.20          | +0.17     | 37.60         | -3.52     |
| Harris Island Dam.....    | 4.57          | +1.63     | 0.88          | -1.59     | 3.74          | +0.46     | 1.73          | -1.42     | 3.50          | +0.45     | 1.45          | -2.73     | 2.71          | -0.91     | 1.74          | -1.55     | 0.83          | -1.67     | 2.70          | -0.03     | 3.29          | +1.08     | 1.92          | -0.82     | 29.06         | -7.10     |
| Ingram.....               | 5.14          | .....     | 0.93          | .....     | 3.96          | .....     | 1.58          | .....     | 3.77          | .....     | 0.73          | .....     | 2.96          | .....     | 1.72          | .....     | 1.19          | .....     | 2.96          | .....     | 3.78          | .....     | 2.18          | .....     | 30.90         | .....     |
| Irwin.....                | 4.12          | +1.20     | 1.12          | -1.32     | 2.27          | -1.04     | 1.05          | -2.15     | 2.27          | -0.95     | 2.68          | -1.75     | 3.51          | -0.31     | 2.59          | -1.12     | 1.22          | -1.50     | 2.20          | -0.65     | 3.02          | +0.65     | 2.01          | -0.90     | 28.06         | -9.84     |
| Johnstown.....            | 4.32          | +0.13     | 2.57          | -1.21     | 5.95          | +1.92     | 1.90          | -2.14     | 2.75          | -1.67     | 4.15          | -1.02     | 3.95          | -0.42     | 4.99          | +0.66     | 0.94          | -2.59     | 3.50          | +0.49     | 2.90          | -0.13     | 2.96          | -0.65     | 40.88         | -6.63     |
| Kane (near).....          | 4.02          | .....     | 1.82          | .....     | 5.38          | .....     | 1.20          | .....     | 1.79          | .....     | 4.20          | .....     | 4.53          | .....     | 2.67          | .....     | 2.64          | .....     | 3.97          | .....     | 3.26          | .....     | 2.14          | .....     | .....         | .....     |
| Kegonsa.....              | 3.46          | .....     | 1.41          | .....     | 4.29          | .....     | 1.52          | .....     | 2.74          | .....     | 3.64          | .....     | 4.38          | .....     | 3.78          | .....     | 1.05          | .....     | 2.56          | .....     | 3.35          | .....     | 3.23          | .....     | 35.41         | .....     |
| Lake Lynn.....            | 5.94          | +2.94     | 1.12          | -0.98     | 2.30          | -0.92     | 2.68          | -0.49     | 4.37          | +0.96     | 2.18          | -1.82     | 3.66          | -0.03     | 2.12          | -1.20     | 1.62          | -2.28     | 3.19          | -0.54     | 3.14          | +0.12     | 2.77          | -0.45     | 35.09         | -4.69     |
| Lanesville.....           | 5.21          | .....     | 0.88          | .....     | 3.12          | .....     | 1.40          | .....     | 2.58          | .....     | 1.10          | .....     | 4.20          | .....     | 1.23          | .....     | 0.80          | .....     | 2.70          | .....     | 3.82          | .....     | 1.82          | .....     | 28.76         | .....     |
| Lock No. 2 (Neville)..... | 4.12          | +1.00     | 0.95          | -1.81     | 4.12          | +0.81     | 1.50          | -1.75     | 3.30          | -0.71     | 1.71          | -2.23     | 4.69          | +0.67     | 2.71          | -0.81     | 2.53          | -0.32     | 2.60          | -0.24     | 3.80          | +1.28     | 2.40          | -0.51     | 34.43         | -4.22     |
| Lock No. 4.....           | 4.47          | +0.48     | 1.47          | -1.72     | 5.58          | +1.85     | 1.00          | -2.83     | 3.21          | -0.75     | 5.12          | +0.44     | 3.98          | -0.87     | 2.90          | -1.28     | 0.83          | -2.44     | 3.62          | +0.47     | 3.10          | +0.36     | 3.49          | +0.11     | 38.77         | -6.18     |
| Lycippus.....             | 4.08          | .....     | 0.89          | .....     | 2.88          | .....     | 1.22          | .....     | 2.47          | .....     | 1.24          | .....     | 2.61          | .....     | 1.49          | .....     | 1.06          | .....     | 3.47          | .....     | 3.70          | .....     | 1.88          | .....     | 26.00         | .....     |
| McKeesport.....           | 6.37          | +3.05     | 0.87          | -1.95     | 2.67          | -0.63     | 2.82          | -0.56     | 2.94          | -1.38     | 3.16          | -0.96     | 4.08          | -0.09     | 1.95          | -1.79     | 2.02          | -1.72     | 3.50          | -0.03     | 3.70          | +0.01     | 2.66          | -0.56     | 36.74         | -6.51     |
| Meadville.....            | 4.70          | .....     | 1.01          | .....     | 3.53          | .....     | 1.34          | .....     | 3.17          | .....     | 2.68          | .....     | 3.15          | .....     | 2.12          | .....     | 1.11          | .....     | 3.11          | .....     | 4.10          | .....     | 2.14          | .....     | 32.16         | .....     |
| Mt. Lebanon.....          | 5.36          | .....     | 1.34          | .....     | 3.39          | .....     | 1.50          | .....     | 2.19          | .....     | 1.85          | .....     | 3.01          | .....     | 2.35          | .....     | 0.73          | .....     | 3.73          | .....     | 3.61          | .....     | 2.02          | .....     | 30.78         | .....     |
| Natrona.....              | 6.22          | +3.20     | 1.20          | -1.22     | 2.35          | -0.56     | 2.00          | -0.99     | 2.62          | -0.76     | 3.84          | -0.47     | 4.99          | +0.87     | 2.97          | -0.24     | 2.03          | -1.11     | 2.79          | +0.07     | 4.14          | +1.74     | 2.73          | +0.15     | 37.88         | +0.58     |
| New Castle.....           | 4.00          | +1.13     | 0.62          | -1.65     | 3.26          | +0.15     | 0.76          | -2.22     | 2.36          | -0.40     | 1.67          | -2.38     | 4.38          | +0.61     | 2.45          | -0.61     | 0.67          | -1.98     | 2.14          | -0.40     | 3.61          | +1.33     | 2.06          | -0.56     | 27.98         | -6.98     |
| Newell.....               | 6.82          | +3.26     | 1.45          | -1.63     | 3.13          | -0.40     | 2.72          | -0.77     | 2.80          | -0.98     | 3.19          | -1.00     | 2.95          | -1.24     | 2.78          | -1.16     | 2.66          | -0.72     | 3.01          | +0.13     | 3.76          | +0.71     | 2.87          | -0.43     | 38.14         | -4.23     |
| Parkers Landing.....      | 4.77          | +2.19     | 1.43          | -0.64     | 1.88          | -1.02     | 2.64          | -0.69     | 4.77          | +1.22     | 2.37          | -1.35     | 3.40          | -0.27     | 2.14          | -1.45     | 1.93          | -2.51     | 2.96          | -0.16     | 3.23          | -0.17     | 3.24          | +0.49     | 34.76         | -4.36     |
| Pennline.....             | 4.80          | +1.75     | 0.82          | -1.88     | 3.24          | +0.21     | 1.16          | -1.76     | 3.03          | -0.18     | 0.78          | -3.03     | 2.01          | -2.04     | 1.72          | -1.51     | 0.59          | -1.99     | 2.79          | +0.27     | 3.22          | +0.93     | 1.73          | -1.13     | 25.89         | -10.36    |
| Pittsburgh.....           | 6.23          | +3.24     | 1.48          | -1.16     | 1.98          | -0.84     | 1.95          | -1.42     | 3.02          | -0.40     | 5.17          | +0.47     | 4.80          | +1.04     | 4.80          | +1.65     | 1.74          | -1.35     | 3.98          | +1.36     | 2.41          | -0.47     | 4.14          | +1.46     | 41.70         | +3.58     |
| Punxsutawney.....         | 6.23          | +3.24     | 1.48          | -1.16     | 1.98          | -0.84     | 1.95          | -1.42     | 3.02          | -0.40     | 5.17          | +0.47     | 4.80          | +1.04     | 4.80          | +1.65     | 1.74          | -1.35     | 3.98          | +1.36     | 2.41          | -0.47     | 4.14          | +1.46     | 41.70         | +3.58     |
| Ridgway.....              | 6.52          | +3.56     | 1.63          | -0.79     | 1.94          | -1.16     | 2.46          | -0.47     | 3.06          | -0.90     | 2.44          | -1.95     | 3.30          | -0.66     | 1.64          | -1.63     | 2.39          | -0.80     | 3.19          | +0.13     | 4.47          | +1.63     | 1.84          | -0.76     | 34.88         | -3.80     |
| Saltsburg.....            | 4.74          | +1.07     | 1.22          | -1.87     | 3.84          | +0.69     | 1.70          | -1.61     | 2.43          | -1.14     | 1.94          | -2.28     | 2.34          | -1.70     | 2.87          | -0.85     | 0.98          | -2.51     | 3.20          | +0.09     | 3.53          | +1.14     | 2.39          | -0.85     | 31.18         | -9.82     |
| Sharon.....               | 4.73          | +2.27     | 0.94          | -0.80     | 1.79          | -0.88     | 2.82          | -0.25     | 1.96          | -1.21     | 2.18          | -1.28     | 5.76          | +2.23     | 2.01          | -1.42     | 2.25          | -0.59     | 1.78          | -1.10     | 3.17          | +0.70     | 2.08          | -0.24     | 31.47         | -2.57     |
| Smethport.....            | 3.47          | .....     | 1.24          | .....     | 2.23          | .....     | 2.28          | .....     | 3.05          | .....     | 3.77          | .....     | 3.20          | .....     | 3.03          | .....     | 1.68          | .....     | 3.33          | .....     | 4.45          | .....     | 1.27          | .....     | 33.00         | .....     |
| Somerset.....             | 3.42          | -1.14     | 2.23          | -1.71     | 4.96          | +0.69     | 0.82          | -3.89     | 3.15          | -1.76     | 2.43          | -2.77     | 4.15          | -0.40     | 2.17          | -2.43     | 1.61          | -2.03     | 4.36          | +1.26     | 2.70          | -0.73     | 2.19          | -1.71     | 34.19         | -16.62    |
| Springdale.....           | 5.32          | +1.79     | 1.07          | -1.66     | 3.38          | -0.01     | 1.57          | -         |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |



Monthly and Annual Mean Temperatures for the Year 1932, with Departures from the Normal

| STATIONS.            | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|----------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                      | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| Atlantic Drainage.   |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Allentown.....       | 40.6        | +11.1     | 33.6        | +3.1      | 34.4        | -3.9      | 46.8        | -1.7      | 59.6        | -0.1      | 68.2        | -1.2      | 72.5        | -1.2      | 72.4        | +1.0      | 65.4        | -0.2      | 54.2        | +1.2      | 38.9        | -3.5      | 32.8        | +0.6      | 51.6        | +0.4      |
| Altoona.....         | 39.3        | +12.3     | 35.5        | +8.3      | 31.8        | -6.0      | 46.4        | -1.6      | 58.8        | 0.0       | 67.0        | +0.7      | 70.3        | -0.5      | 70.0        | +1.0      | 63.7        | +0.6      | 51.3        | -0.8      | 37.8        | -2.6      | 33.3        | +3.6      | 50.4        | +1.2      |
| Ardmore.....         | 41.5        | +10.7     | 34.8        | +1.6      | 33.5        | -8.8      | 47.9        | -2.8      | 58.9        | -1.5      | 69.0        | -1.1      | 74.5        | +0.6      | 74.5        | +3.2      | 66.8        | -0.5      | 56.6        | +1.4      | 41.6        | -2.6      | 36.0        | +2.0      | 53.0        | +0.2      |
| Arendtsville.....    | 40.2        | +9.6      | 36.3        | +3.8      | 33.9        | -5.6      | 47.8        | -1.5      | 60.4        | +0.7      | 70.2        | -0.1      | 73.9        | -0.1      | 73.1        | +1.1      | 65.6        | -0.8      | 52.2        | -2.4      | 38.6        | -4.1      | 32.8        | -1.0      | 52.1        | 0.0       |
| Bedford.....         | 41.9        | .....     | 38.0        | .....     | 34.6        | .....     | 49.2        | .....     | 61.8        | .....     | 69.6        | .....     | 73.0        | .....     | 72.6        | .....     | 65.4        | .....     | 53.9        | .....     | 39.1        | .....     | 34.0        | .....     | 52.8        | .....     |
| Bellefonte.....      | 38.5        | +10.8     | 33.1        | +5.8      | 30.7        | -9.4      | 45.0        | -5.5      | 56.7        | -4.4      | 66.0        | -2.7      | 69.2        | -4.0      | 69.2        | -1.6      | 61.6        | -3.3      | 51.3        | -1.7      | 36.4        | -5.0      | 29.8        | -0.7      | 49.0        | -1.8      |
| Bethlehem.....       | 42.6        | +12.6     | 36.9        | +5.8      | 36.8        | -8.8      | 49.9        | -1.6      | 62.2        | 0.0       | 70.6        | +0.4      | 75.0        | +0.4      | 75.1        | +2.3      | 68.5        | +1.8      | 56.8        | +1.1      | 42.4        | -1.8      | 36.0        | +2.7      | 54.4        | +1.7      |
| Carlisle.....        | 41.8        | +13.7     | 37.4        | +7.4      | 36.8        | -1.6      | 49.8        | -2.3      | 62.1        | +0.7      | 71.0        | 0.0       | 75.7        | +0.9      | 75.2        | +2.6      | 67.2        | +2.0      | 53.7        | +0.9      | 38.5        | -2.6      | 31.4        | -0.1      | 53.4        | +1.8      |
| Catawissa.....       | 41.7        | +14.0     | 35.4        | +5.8      | 34.6        | -3.8      | 48.2        | -2.2      | 61.4        | +0.9      | 69.8        | -1.6      | 73.4        | +0.7      | 73.5        | +3.2      | 65.2        | +1.2      | 54.2        | +0.8      | 39.7        | -2.7      | 32.7        | +1.2      | 52.5        | +1.7      |
| Center Hall.....     | 37.7        | +11.9     | 34.1        | +6.8      | 32.6        | -4.0      | 44.3        | -3.9      | 53.6        | -5.2      | 61.6        | -4.4      | 66.0        | -5.1      | 67.4        | -1.3      | 62.0        | -0.2      | 50.0        | -1.9      | .....       | .....     | 34.1        | +4.4      | .....       | .....     |
| Chambersburg.....    | 42.6        | +13.7     | 39.2        | +7.8      | 37.1        | -2.4      | 50.4        | +0.3      | 62.6        | +1.9      | 72.0        | +2.6      | 75.8        | +1.5      | 75.1        | +3.3      | 67.4        | +1.3      | 54.6        | +1.7      | 40.4        | -1.5      | 34.0        | +1.0      | 54.3        | +2.6      |
| Clearfield.....      | 38.7        | +11.9     | 35.8        | +7.3      | 32.3        | -5.6      | 46.8        | -1.1      | 59.0        | +0.2      | 68.6        | +1.7      | 69.8        | +1.6      | 70.3        | +0.4      | 64.0        | +0.1      | 53.1        | +0.5      | 38.9        | -1.9      | .....       | .....     | .....       | .....     |
| Coatesville.....     | 42.4        | +12.5     | 36.6        | +6.2      | 35.9        | -4.1      | 48.6        | -2.0      | 60.8        | -0.4      | 70.8        | +0.8      | 74.8        | +0.2      | 74.0        | +1.5      | 67.1        | +0.9      | 55.3        | +1.2      | 41.2        | -1.6      | 35.6        | +2.9      | 53.6        | +1.5      |
| Colebrook.....       | 40.2        | +13.2     | 34.6        | +4.3      | 33.5        | -6.6      | 46.5        | -2.6      | 59.3        | +0.3      | 67.6        | -0.5      | 71.5        | -0.9      | 71.2        | +0.9      | 64.6        | +0.4      | 52.8        | +0.1      | 38.7        | -2.9      | 32.1        | +0.5      | 51.0        | +0.5      |
| Emporium.....        | 38.6        | +13.1     | 33.0        | +7.4      | 31.4        | -4.0      | 44.4        | -2.3      | 57.8        | 0.0       | 66.4        | +0.6      | 68.8        | -0.8      | 68.0        | +0.6      | 61.6        | +0.2      | 52.0        | +2.0      | 36.9        | -2.3      | 30.4        | +1.3      | 49.1        | +1.3      |
| Ephrata.....         | 42.6        | +13.0     | 37.5        | +7.8      | 37.0        | -3.0      | 50.0        | 0.0       | 63.4        | +2.4      | 72.0        | +3.5      | 76.4        | +2.3      | 75.8        | +4.2      | 68.4        | +2.6      | 55.6        | +1.0      | 42.2        | -0.7      | 34.1        | +1.9      | 54.6        | +2.9      |
| Freeland.....        | 35.9        | +12.0     | 30.6        | +5.9      | 29.1        | -3.8      | 43.1        | -1.2      | 57.9        | +1.7      | 65.6        | +1.0      | 68.6        | 0.0       | 69.9        | +3.7      | 62.9        | +3.3      | 51.4        | +4.4      | 36.4        | -0.6      | 32.0        | +4.9      | 48.6        | +2.6      |
| George School.....   | 42.6        | +12.0     | 36.0        | +4.8      | 37.4        | -3.3      | 49.8        | -0.4      | 61.0        | +0.5      | 70.4        | +1.8      | 74.8        | +1.1      | 73.6        | +2.2      | 67.4        | +1.4      | 57.1        | +2.1      | 43.4        | +0.2      | 36.2        | +3.2      | 54.1        | +2.1      |
| Gettysburg.....      | 42.6        | +13.2     | 39.4        | +8.3      | 38.0        | -2.1      | 51.2        | +0.5      | 63.0        | +1.7      | 71.4        | +1.5      | 75.3        | +1.1      | 75.1        | +3.2      | 67.8        | +2.2      | 55.4        | +2.4      | 42.4        | +0.4      | 35.6        | +3.4      | 54.8        | +3.0      |
| Gordon.....          | 40.0        | +13.7     | 34.4        | +7.4      | 33.4        | -3.5      | 46.9        | -0.9      | 59.2        | +1.4      | 67.4        | +1.8      | 71.2        | +1.1      | 70.8        | +3.0      | 63.4        | +1.1      | 52.8        | +2.1      | 38.6        | -1.0      | 32.2        | +3.2      | 50.9        | +2.5      |
| Gouldsboro.....      | 33.0        | .....     | 26.2        | .....     | 24.9        | .....     | 37.2        | .....     | 52.8        | .....     | 57.9        | .....     | 59.6        | .....     | 60.4        | .....     | 54.9        | .....     | 47.0        | .....     | 32.6        | .....     | 27.6        | .....     | 42.8        | .....     |
| Hamburg.....         | 40.8        | +12.5     | 34.0        | +4.8      | 34.4        | -4.0      | 46.6        | -3.1      | 59.1        | -1.8      | 67.4        | -1.6      | 72.5        | -0.8      | 71.8        | +0.6      | 64.7        | -0.6      | 53.2        | -0.2      | 38.6        | -3.3      | 32.6        | +0.9      | 51.3        | +0.3      |
| Hanover.....         | 44.4        | +12.3     | 40.6        | +7.7      | 38.0        | -4.5      | 51.2        | -1.4      | 64.0        | +1.2      | 72.4        | +1.5      | 76.6        | +1.2      | 75.9        | +2.8      | 69.1        | +1.5      | 56.9        | +1.5      | 43.8        | -0.8      | 38.0        | +3.8      | 55.9        | +2.2      |
| Harrisburg.....      | 42.5        | +13.5     | 38.0        | +7.8      | 36.0        | -2.9      | 49.4        | -1.5      | 61.9        | +0.1      | 70.8        | +0.6      | 74.9        | +0.1      | 75.6        | +3.0      | 68.3        | +2.5      | 55.2        | +0.4      | 41.2        | -1.6      | 35.0        | +2.3      | 54.1        | +2.0      |
| Hawley.....          | 36.0        | +11.4     | 30.6        | +4.2      | 30.6        | -4.9      | 44.0        | -1.6      | 57.9        | +1.1      | 65.0        | -1.3      | 68.9        | -1.5      | 68.5        | +0.7      | 60.8        | -0.9      | 51.3        | +1.7      | 36.6        | -2.9      | 31.0        | +2.2      | 48.4        | +0.6      |
| Holtwood.....        | 43.9        | +13.8     | 39.0        | +5.9      | 38.3        | -3.7      | 51.0        | -0.6      | 64.6        | +2.8      | 73.8        | +2.2      | 79.0        | +3.2      | 78.5        | +5.0      | 72.4        | +3.4      | 59.2        | +3.0      | 44.5        | -0.3      | 36.0        | +1.8      | 56.7        | +3.1      |
| Huntingdon.....      | 41.4        | +12.9     | 36.4        | +7.2      | 34.4        | -4.5      | 48.3        | -1.3      | 60.1        | -0.1      | 69.2        | +0.9      | 72.4        | +0.2      | 72.4        | +2.0      | 65.2        | +0.6      | 53.4        | +0.7      | 38.7        | -3.0      | 32.4        | +0.8      | 52.0        | +1.3      |
| Hyndman.....         | 42.4        | +12.3     | 40.4        | +8.9      | 36.1        | -4.3      | 49.4        | -1.3      | 62.6        | +1.8      | 70.6        | +3.2      | 73.8        | +1.3      | 73.4        | +2.6      | 66.2        | +0.8      | 54.2        | +1.0      | 40.5        | -1.8      | 34.8        | +2.4      | 53.7        | +2.2      |
| Kylertown.....       | 37.1        | .....     | 35.2        | .....     | 30.0        | .....     | 45.0        | .....     | 57.0        | .....     | 65.9        | .....     | 68.0        | .....     | 67.0        | .....     | 61.2        | .....     | 51.0        | .....     | 37.0        | .....     | 31.5        | .....     | 48.8        | .....     |
| Lancaster.....       | 40.0        | +10.3     | 35.4        | +4.4      | 35.4        | -4.3      | 46.8        | -2.3      | 60.0        | -0.7      | 67.7        | -2.3      | 72.4        | -1.3      | 72.2        | +0.2      | 63.8        | -1.7      | 52.0        | -1.8      | 38.0        | -5.4      | 28.8        | -4.6      | 51.0        | -0.8      |
| Lawrenceville.....   | 37.4        | +12.8     | 31.8        | +7.3      | 30.6        | -4.2      | 43.4        | -2.5      | 57.6        | +0.7      | 67.3        | +1.7      | 68.9        | -1.2      | 70.2        | +2.3      | 62.6        | +1.1      | 53.6        | +3.1      | 37.4        | -1.6      | 30.8        | +2.1      | 49.3        | +1.8      |
| Lebanon.....         | 42.0        | +13.2     | 35.7        | +8.1      | 35.0        | -4.4      | 48.4        | -2.0      | 60.6        | -0.2      | 70.0        | +0.4      | 74.2        | +0.4      | 74.4        | +2.6      | 67.7        | +2.1      | 54.5        | +0.8      | 40.3        | -2.2      | 33.4        | +1.4      | 53.0        | +1.5      |
| Lewisburg.....       | 41.1        | +14.8     | 35.8        | +8.5      | 35.2        | -1.8      | 48.5        | -0.9      | 61.8        | +1.9      | 72.4        | +0.4      | 75.4        | +2.1      | 76.2        | +5.4      | 67.6        | +1.2      | 55.0        | +3.2      | 40.0        | -0.5      | 31.1        | +1.0      | 53.3        | +3.1      |
| Lock Haven.....      | 42.4        | +15.0     | 37.2        | +9.2      | 36.0        | -2.6      | 50.2        | -0.1      | 63.2        | +1.6      | 71.4        | +1.9      | 74.8        | +1.5      | 74.2        | +3.1      | 66.8        | +2.0      | 55.6        | +2.1      | 40.2        | -1.7      | 33.2        | +2.2      | 53.8        | +2.9      |
| Lykens.....          | 40.8        | +13.1     | 36.2        | +5.5      | 34.7        | -4.8      | 47.7        | -2.3      | 61.3        | +2.1      | 69.1        | +1.6      | 72.4        | +0.6      | 73.0        | +3.0      | 65.7        | +1.3      | 53.6        | +0.3      | 39.8        | -2.0      | 32.8        | +1.8      | 52.3        | +1.7      |
| Marcus Hook.....     | 45.5        | .....     | 39.6        | .....     | 38.8        | .....     | 52.6        | .....     | 65.4        | .....     | 74.8        | .....     | 79.2        | .....     | 78.8        | .....     | 71.5        | .....     | 60.8        | .....     | 46.8        | .....     | 39.0        | .....     | 57.7        | .....     |
| Mauch Chunk.....     | 39.4        | +12.1     | 33.6        | +5.8      | 33.2        | -4.2      | 45.8        | -2.8      | 59.2        | -0.5      | 65.9        | -1.9      | 69.7        | -2.5      | 71.0        | +1.0      | 65.2        | +1.0      | 52.0        | -0.4      | 36.2        | -4.8      | 33.0        | +2.4      | 50.4        | +0.5      |
| Midtown.....         | 41.2        | +13.3     | 36.4        | +7.6      | 35.2        | -4.0      | 48.3        | -1.7      | 61.2        | +1.1      | 69.0        | +0.6      | 73.7        | -0.8      | 72.8        | +2.3      | 65.8        | +1.3      | 54.6        | +1.7      | 40.4        | -1.0      | 33.8        | +2.7      | 52.7        | +2.1      |
| Montrose.....        | 35.4        | +14.4     | 28.4        | +6.2      | 27.3        | -5.0      | 40.6        | -3.4      | 54.8        | +0.3      | 62.0        | -1.0      | 66.8        | -0.9      | 67.0        | +0.7      | 61.0        | +0.5      | 51.0        | +2.0      | 35.8        | -1.6      | 32.0        | +5.9      | 46.9        | +1.6      |
| Mount Pocono.....    | 33.0        | +10.2     | 27.2        | +5.9      | 25.9        | -6.3      | 36.2        | -3.2      | 52.0        | -1.9      | 56.2        | -5.5      | 61.5        | -4.2      | 62.6        | -1.2      | 55.8        | -2.6      | 44.2        | -4.2      | 31.5        | -4.8      | 24.6        | -1.2      | 42.6        | -1.8      |
| Muncy Valley.....    | 37.4        | +12.8     | 30.6        | +4.2      | 30.3        | -5.4      | 43.9        | -3.7      | 56.8        | -0.1      | 65.2        | 0.0       | 68.2        | -1.4      | 68.6        | +1.0      | 61.8        | +0.3      | 51.0        | +0.7      | 37.0        | -2.5      | 28.8        | +0.8      | 48.3        | +0.6      |
| Neshaminy Falls..... | 42.0        | +14.0     | 33.6        | +3.8      | 35.8        | -3.6      | 48.9        | -0.3      | 60.2        | +0.8      | 69.6        | +1.0      | 74.2        | +0.9      | 73.4        | +1.7      | 65.4        | 0.0       | 56.0        | +2.1      | 41.0        | -1.2      | 33.0        | +1.3      | 52.8        | +1.8      |
| Palmerton.....       | 40.2        | .....     | 34.0        | .....     | 34.2        |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |



## COOPERATIVE AND RAINFALL OBSERVERS

| Stations           | Observers                 | Stations               | Observers                | Stations                 | Observers                |
|--------------------|---------------------------|------------------------|--------------------------|--------------------------|--------------------------|
| Allentown.....     | John A. Frick.            | Gouldsboro.....        | Gustav Holtz.            | New Park.....            | C. J. Allen.             |
| Altoona.....       | F. E. Rooney.             | Graterford.....        | C. K. Kulp.              | Newport.....             | Adam R. Boetill.         |
| Ansonia.....       | Paul H. Mulford.          | Greensburg.....        | Westmoreland Water Co.   | Palmerton.....           | New Jersey Zinc Co.      |
| Ardmore.....       | H. L. Balderston.         | Greensboro.....        | George W. Paxton.        | Parkers Landing.....     | Henry Turk.              |
| Arendtsville.....  | Dr. S. W. Frost.          | Greenville.....        | C. P. Clarke.            | Paupack.....             | Penn. Power & Light Co.  |
| Bakers Summit..... | M. Snyder.                | Grove City.....        | Prof. H. W. Harmon.      | Penn Line.....           | Retta Crumb.             |
| Beaver Dam.....    | F. H. McCullough.         | Hamburg.....           | State Sanatorium.        | Philadelphia.....        | U. S. Weather Bureau.    |
| Beaver Falls.....  | W. Edward Eakin.          | Hanover.....           | Thomas Y. Cooper.        | Philadelphia-Gtn.....    | Julius Bernstein.        |
| Bedford.....       | Charles C. Lee.           | Harrisburg.....        | U. S. Weather Bureau.    | Philadelphia.....        | Commandant, Navy         |
| Bethlehem.....     | Lehigh University.        | Hawley.....            | Mrs. Della M. Pennell.   | Yard.....                |                          |
| Blossville.....    | A. G. Mountz.             | Herr's Island Dam..... | U. S. Engineer.          | Phila. Point Breeze..... | Atlantic Refining Co.    |
| Bellefonte.....    | U. S. Weather Bureau.     | Holisterville.....     | Penn. P. & L. Co.        | Phoenixville.....        | Philadel. Sub. Water Co. |
| Bradford.....      | Supt. Timber Pres. Plant. | Holtwood.....          | H. W. Lowy, C. E.        | Pine Grove.....          | East Penn Electric Co.   |
| Brookville.....    | John Fawcett.             | Huntingdon.....        | Prof. Paul R. Yoder.     | Pittsburgh.....          | U. S. Weather Bureau.    |
| Buffalo Mills..... | Nelle R. Brown.           | Hyndman.....           | Horace A. Sheavly.       | Pleasant Mount.....      | C. R. Buller.            |
| Butler.....        | The Butler Eagle.         | Ingram.....            | W. R. Gormly.            | Pottstown.....           | Daily News.              |
| Carlisle.....      | Clarence E. Miller.       | Irwin.....             | W. F. Gallagher.         | Pottsville.....          |                          |
| Catawissa.....     | W. L. Gearhart.           | Johnstown.....         | E. C. Lorentz.           | Quakertown.....          | John E. Benner.          |
| Center Hall.....   | S. W. Smith.              | Kane (near).....       | U. S. Forest Service.    | Reading.....             | U. S. Weather Bureau.    |
| Chambersburg.....  | Wm. B. Spear.             | Keglar.....            | I. A. Knupp.             | Renovo.....              | J. H. Baird.             |
| Chambersville..... | John E. Lewis.            | Kylertown.....         | Bur. Plant Industry.     | Ridgway.....             | West Penn. Power Co.     |
| Clairton.....      | Carnegie Steel Co.        | Lake Lynn.....         | R. McGeuchie.            | Salisbury.....           | Thomas M. Duncan.        |
| Claysville.....    | J. L. Melvin.             | Lakeville.....         | Penn. P. & L. Co.        | Scranton.....            | U. S. Weather Bureau.    |
| Clearfield.....    | E. W. Hess, C. E.         | Lancaster.....         | Supt. Water Works.       | Selinsgrove.....         | Dr. George E. Fisher.    |
| Clymer.....        | L. Frendberg.             | Lansford.....          | Lehigh Coal & Nav. Co.   | Sharon.....              | H. H. Gerber.            |
| Coatesville.....   | Howard L. Pyle.           | Lawrenceville.....     | C. P. Darling.           | Shawmont.....            | Winfield S. Guiles.      |
| Colebrook.....     | William A. Rorer.         | Lebanon.....           | S. B. Benzing.           | Snow Hill.....           | G. L. Dormoy.            |
| Confluence.....    | Grant Pyle.               | Lewisburg.....         | Prof. Wm. G. Owens.      | Somerset.....            | D. L. Grove.             |
| Conshohocken.....  | Russell C. Erb.           | Linesville.....        | I. F. Hepler.            | Springdale.....          | U. S. Engineer.          |
| Corry.....         | Assd. Gas & Electric Co.  | Lloyd.....             | M. L. Fish.              | State College.....       | C. A. Kern.              |
| Coudersport.....   | West Penn Power Co.       | Lock Haven.....        | Joseph A. Beaver.        | Stroudsburg.....         | State Normal School.     |
| Cresson.....       | W. P. Linnan.             | Lock No. 2.....        | R. C. McCullough.        | Sunbury.....             | Earl E. Stahl.           |
| Derry.....         | Ted R. Wineman.           | Lock No. 4.....        | U. S. Engineer.          | Towanda.....             | Hiram E. Bull, C. E.     |
| Donora.....        | Donora Zinc Works.        | Lycippus.....          | Westmoreland Water Co.   | Uniontown.....           | Wm. W. Marsteller.       |
| Doylestown.....    | Geo. Hart.                | Lykens.....            | Susquehanna Coal Co.     | Unity Reservoir.....     | Westmoreland Water Co.   |
| Ebensburg.....     | D. H. Jones.              | Marcus Hook.....       | Sun Oil Co.              | Vandergrift.....         | H. R. Belding.           |
| Elk Lick.....      | J. S. Stevanus.           | Matamoras.....         | John Bisland.            | Warren.....              | Mrs. Anna Simpson.       |
| Emporium.....      | T. B. Lloyd.              | Mauch Chunk.....       | R. K. Wintermute.        | Waynesburg.....          | Thomas S. Knox.          |
| Ephrata.....       | Tr. J. Keath.             | Meadville.....         | Assd. Gas & Electric Co. | Weikert.....             | David Libby.             |
| Erie.....          | U. S. Weather Bureau.     | Midlinton.....         | W. H. Manbeck.           | Wellsboro.....           | George W. Hill.          |
| Forest City.....   | L. L. Whipple.            | Montrose.....          | Silas Jagger.            | West Chester.....        | Joseph W. Belt.          |
| Franklin.....      | R. A. Fergus.             | Morris Run.....        | Morris Run Mining Co.    | Westford.....            | C. C. Collins.           |
| Freeland.....      | Theodore Reichmann.       | Mt. Lebanon.....       | Roger H. Howell.         | Westgrove.....           | Conard-Pyle Co.          |
| Freeport.....      | U. S. Engineer.           | Mount Pocono.....      | Cecil J. Hoskinson.      | West Newton.....         | A. B. Adams.             |
| Galeton.....       | Henry W. Lush.            | Muncy Valley.....      | H. O. Hacker.            | Wilkes-Barre.....        | Milton Wentz.            |
| George School..... | N. W. Swayne.             | Natrona.....           | Bert B. Hildebrand.      | Williamsport.....        | Veronica E. April.       |
| Gettysburg.....    | Dr. Henry Stewart.        | Neshaminy Falls.....   | Phila. Sub. Water Co.    | York.....                | C. L. Bott.              |
| Girardville.....   | Girard Water Co.          | New Castle.....        | New Castle Water Co.     | York Haven.....          | York Haven Water Co.     |
| Gordon.....        | Sallie M. Johnson.        | Newell.....            | General Chemical Co.     | Zionsville.....          | J. H. Weinberger.        |

## WEATHER BUREAU AND COOPERATIVE STATIONS, 1932





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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVIII.

JANUARY, 1933.

No. 1.

## GENERAL SUMMARY.

The month as a whole was decidedly mild, the mean temperature for the State being exceeded only in January of 1890 and 1932, respectively. The extremes were moderate, the maximum of 71 degrees having been exceeded nine times in the last 45 years, while the minimum of 6 degrees below zero has been exceeded in all but seven of the last 45 years. The month started with a moderate cold wave, after which the temperature was almost constantly above the normal, reaching an excess of 20 degrees or more at the beginning of the fourth week. Frost did not penetrate the ground deeply at any time during the month. Precipitation averaged a little less than two-thirds of the January normal, and was deficient in all parts of the State. Excepting 1931, it was the driest January during the last twenty years. The snowfall averaged 1.9 inches as compared with a normal of 11.0 inches. Most of the snow fell on the 9th. The heaviest snowfall for the month was a little more than 10 inches in Wayne County, where the normal is about 14 inches. A large number of stations reported only traces, and it appears that about one-fifth of the State was without a measurable amount of snow. There was no snow cover on the fields worth mentioning, but mild temperatures made it unnecessary. Winter grains that were seeded early enough last fall to become well rooted went through the month in good condition. However, it became increasingly apparent during the month that the losses would be heavy in late sown fields. A severe coast storm on the 26th caused destructive gales in Philadelphia and vicinity. Many trees, poles, and signs were blown down, and in numerous instances large plate glass windows were blown in. An old three-story frame house on Seltzer street collapsed during the storm. Fortunately it was unoccupied at the time and there was no loss of life. This storm was followed two days later by another wind storm of almost equal severity. This storm moved eastward from the central valleys and passed off the coast on the night of the 27th. It then increased greatly in intensity and caused gales along the entire Middle Atlantic seaboard. Streams were at moderate or low stages during the month, but the water supply appeared to be ample in all districts. The month as a whole was favorable for outdoor work, including building construction, which made good progress. Road work was almost entirely unhampered by frost or other conditions, and was conducted under nearly as favorable conditions as prevail during the warmer season.

## TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 37.0°, or 9.1° above the January nor-

mal. The highest monthly mean was 42.8°, at Marcus Hook, and the lowest 30.2°, at Gouldsboro. The highest temperature recorded during the month was 71° at Clairton and Uniontown on the 22d, while the lowest, -6°, occurred at Kane (near) and Hawley on the 1st. The greatest daily range in temperature was 43° at Brookville on the 1st.

## PRECIPITATION.

The average precipitation for the State, as deduced from the observations of 146 well-distributed stations, was 2.00 inches, which is a deficiency of 1.25 inches as compared with the normal. Monthly totals ranged from a maximum of 3.43 inches at Waynesburg to a minimum of 0.54 inch at Lawrenceville. The greatest amount recorded in any 24 consecutive hours was 1.65 inches at Marcus Hook on the 25-26th. Snowfall averaged 1.9 inches which is 9.1 inches below the normal. The greatest monthly amount of snow was 10.6 inches at Pleasant Mount, and the greatest 24-hour fall was 7.5 inches at Lakeville on the 9-10th.

## COMPARATIVE DATA FOR JANUARY

| Year        | Temperature |           |         |        | Precipitation |           |                  |               |                  | No. of days           |       |               |        |
|-------------|-------------|-----------|---------|--------|---------------|-----------|------------------|---------------|------------------|-----------------------|-------|---------------|--------|
|             | Mean        | Departure | Highest | Lowest | Average       | Departure | Greatest monthly | Least monthly | Average Snowfall | 60 inch or more prec. | Clear | Partly cloudy | Cloudy |
| 1888.....   | 23.2        | -4.7      | 61      | -19    | 4.19          | +0.94     | 6.75             | 2.12          | 14.0             | 13                    | 5     | 11            | 15     |
| 1889.....   | 29.4        | +1.5      | 68      | -5     | 3.54          | +0.29     | 7.02             | 1.82          | 7.8              | 10                    | 9     | 13            | 9      |
| 1890.....   | 37.5        | +9.6      | 77      | -2     | 3.04          | -0.21     | 6.87             | 1.47          | 1.8              | 14                    | 7     | 8             | 16     |
| 1891.....   | 30.5        | +2.6      | 64      | -4     | 3.64          | +0.39     | 8.74             | 1.22          | 9.8              | 12                    | 6     | 10            | 15     |
| 1892.....   | 26.2        | -1.7      | 66      | -23    | 4.77          | +1.52     | 8.46             | 2.08          | 13.5             | 12                    | 8     | 8             | 15     |
| 1893.....   | 19.0        | -8.9      | 57      | -25    | 2.85          | -0.40     | 4.82             | 1.65          | 18.0             | 12                    | 7     | 10            | 14     |
| 1894.....   | 32.8        | +4.9      | 65      | -9     | 2.29          | -0.96     | 4.71             | 0.83          | 7.2              | 10                    | 9     | 9             | 13     |
| 1895.....   | 24.2        | -3.7      | 58      | -17    | 4.17          | +0.92     | 6.36             | 1.83          | 14.2             | 13                    | 7     | 10            | 14     |
| 1896.....   | 27.6        | -0.3      | 60      | -15    | 1.43          | -1.82     | 2.40             | 0.52          | 3.4              | 6                     | 8     | 9             | 14     |
| 1897.....   | 25.6        | -2.3      | 74      | -25    | 2.15          | -1.10     | 3.54             | 0.87          | 11.0             | 10                    | 8     | 8             | 15     |
| 1898.....   | 30.7        | +2.8      | 67      | -16    | 4.25          | +1.00     | 7.57             | 1.32          | 11.0             | 13                    | 6     | 8             | 17     |
| 1899.....   | 26.6        | -1.3      | 66      | -21    | 3.05          | -0.20     | 4.84             | 0.82          | 10.3             | 10                    | 12    | 8             | 11     |
| 1900.....   | 29.8        | +1.9      | 63      | -8     | 2.64          | -0.61     | 4.37             | 1.36          | 5.3              | 10                    | 8     | 9             | 14     |
| 1901.....   | 29.1        | +1.2      | 59      | -10    | 2.22          | -1.03     | 4.41             | 0.74          | 8.6              | 11                    | 8     | 8             | 15     |
| 1902.....   | 25.6        | -2.3      | 58      | -13    | 2.80          | -0.45     | 5.15             | 1.00          | 11.5             | 9                     | 8     | 9             | 14     |
| 1903.....   | 26.9        | -1.0      | 68      | -13    | 3.31          | +0.06     | 5.09             | 1.49          | 11.7             | 11                    | 6     | 8             | 17     |
| 1904.....   | 20.0        | -7.9      | 66      | -42    | 3.55          | +0.30     | 5.82             | 2.08          | 20.4             | 12                    | 10    | 6             | 15     |
| 1905.....   | 23.8        | -4.1      | 69      | -21    | 3.70          | +0.45     | 7.55             | 1.72          | 21.2             | 12                    | 8     | 8             | 15     |
| 1906.....   | 35.0        | +7.1      | 85      | -4     | 2.53          | -0.72     | 5.28             | 0.76          | 4.5              | 11                    | 10    | 8             | 13     |
| 1907.....   | 30.0        | +2.1      | 75      | -23    | 4.36          | +1.11     | 9.69             | 2.14          | 13.2             | 15                    | 6     | 7             | 18     |
| 1908.....   | 28.4        | +0.5      | 59      | -18    | 2.68          | -0.57     | 5.33             | 1.46          | 11.4             | 9                     | 12    | 8             | 11     |
| 1909.....   | 31.2        | +3.3      | 72      | -19    | 2.92          | -0.33     | 4.25             | 1.58          | 12.8             | 13                    | 9     | 6             | 16     |
| 1910.....   | 27.2        | -0.7      | 56      | -22    | 5.55          | +2.30     | 8.91             | 3.27          | 26.0             | 14                    | 7     | 5             | 19     |
| 1911.....   | 31.6        | +3.7      | 70      | -5     | 3.54          | +0.29     | 6.38             | 1.25          | 4.5              | 13                    | 8     | 5             | 18     |
| 1912.....   | 18.6        | -9.3      | 57      | -35    | 1.92          | -1.33     | 3.72             | 0.47          | 13.6             | 12                    | 8     | 7             | 16     |
| 1913.....   | 36.5        | +8.6      | 65      | 3      | 4.95          | +1.70     | 8.90             | 1.51          | 4.5              | 16                    | 9     | 6             | 16     |
| 1914.....   | 30.2        | +2.3      | 81      | -27    | 3.37          | +0.12     | 5.77             | 1.40          | 11.7             | 11                    | 7     | 7             | 17     |
| 1915.....   | 28.3        | +0.4      | 62      | -26    | 5.56          | +2.31     | 9.69             | 2.43          | 14.7             | 13                    | 10    | 6             | 15     |
| 1916.....   | 34.2        | +6.3      | 76      | -12    | 2.42          | -0.83     | 5.33             | 0.20          | 1.8              | 12                    | 9     | 8             | 14     |
| 1917.....   | 27.9        | 0.0       | 69      | -18    | 3.60          | +0.35     | 6.69             | 1.06          | 4.2              | 13                    | 11    | 8             | 12     |
| 1918.....   | 16.2        | -11.7     | 57      | -29    | 3.51          | +0.26     | 7.28             | 1.20          | 25.2             | 12                    | 10    | 8             | 13     |
| 1919.....   | 32.0        | +4.1      | 64      | -15    | 2.53          | -0.72     | 4.94             | 1.00          | 6.2              | 8                     | 14    | 8             | 9      |
| 1920.....   | 20.9        | -7.0      | 59      | -23    | 2.47          | -0.78     | 5.35             | 1.00          | 10.0             | 10                    | 9     | 8             | 14     |
| 1921.....   | 31.0        | +3.1      | 63      | -13    | 2.58          | -0.67     | 5.23             | 0.89          | 4.4              | 10                    | 12    | 7             | 12     |
| 1922.....   | 25.0        | -2.9      | 62      | -19    | 2.26          | -0.99     | 4.46             | 1.15          | 16.0             | 8                     | 14    | 7             | 10     |
| 1923.....   | 29.1        | +1.2      | 62      | -17    | 4.26          | +1.01     | 7.74             | 1.91          | 17.6             | 14                    | 6     | 6             | 19     |
| 1924.....   | 28.1        | +0.2      | 65      | -13    | 4.34          | +1.09     | 6.29             | 1.70          | 3.6              | 8                     | 11    | 8             | 12     |
| 1925.....   | 25.2        | -2.7      | 55      | -29    | 3.53          | +0.28     | 6.68             | 1.07          | 29.4             | 10                    | 11    | 7             | 13     |
| 1926.....   | 27.8        | -0.1      | 66      | -19    | 2.80          | -0.45     | 4.85             | 1.12          | 10.5             | 11                    | 9     | 9             | 13     |
| 1927.....   | 27.4        | -0.5      | 61      | -24    | 2.90          | -0.35     | 8.28             | 0.76          | 5.7              | 13                    | 9     | 6             | 16     |
| 1928.....   | 29.8        | +1.9      | 65      | -23    | 2.08          | -1.17     | 4.48             | 0.78          | 6.8              | 9                     | 12    | 8             | 11     |
| 1929.....   | 27.3        | -0.6      | 73      | -20    | 3.37          | +0.12     | 6.86             | 1.12          | 7.6              | 12                    | 9     | 9             | 13     |
| 1930.....   | 29.2        | +1.3      | 72      | -24    | 2.25          | -1.00     | 4.74             | 0.70          | 8.4              | 12                    | 8     | 8             | 15     |
| 1931.....   | 30.0        | +2.1      | 65      | -12    | 1.46          | -1.79     | 2.66             | 0.49          | 4.4              | 7                     | 12    | 9             | 10     |
| 1932.....   | 40.5        | +12.6     | 79      | 9      | 4.51          | +1.26     | 7.48             | 1.98          | 1.3              | 14                    | 7     | 6             | 18     |
| 1933.....   | 37.0        | +9.1      | 71      | -6     | 2.00          | -1.25     | 3.43             | 0.54          | 1.9              | 8                     | 12    | 7             | 12     |
| Period..... | 27.9        | .....     | 85      | -42    | 3.25          | .....     | 9.69             | 0.20          | 11.0             | 11                    | 9     | 8             | 14     |



## Climatological Data for January, 1933

| Stations               | Counties          | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|------------------------|-------------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                        |                   |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage.     |                   |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown.....         | Lehigh.....       | 254             | 21                      | 35.6                         | +6.1                      | 56      | 7     | 13     | 1†    | 29                       | 1.73  | -1.78                     | 0.52                 | 1.4                       | 10                           | 15    | 10         | 6                            | nw.       | John A. Frick.              |
| Altoona.....           | Blair.....        | 1,615           | 46                      | 36.3                         | +9.3                      | 63      | 19    | 5      | 1     | 31                       | 2.34  | -0.25                     | 0.58                 | 2.2                       | 9                            | 21    | 5          | 5                            | w.        | F. E. Rooney.               |
| Ardmore.....           | Montgomery.....   | 350             | 1                       | 39.8                         | +9.0                      | 62      | 23    | 11     | 1     | 29                       | 2.98  | -0.61                     | 1.46                 | 1.0                       | 9                            | 21    | 5          | 5                            | .....     | H. G. Balderston.           |
| Arendtsville.....      | Adams.....        | 700             | 11                      | 36.2                         | +5.6                      | 61      | 7     | 11     | 1†    | 39                       | 1.26  | -1.49                     | 0.55                 | 1.6                       | 6                            | 21    | 3          | 7                            | n.        | Dr. S. W. Frost.            |
| Bedford.....           | Bedford.....      | 1,060           | 1                       | 38.4                         | .....                     | 65      | 19    | 10     | 1     | 35                       | 1.81  | .....                     | 0.64                 | 1.0                       | 9                            | 12    | 6          | 13                           | nw.       | Charles C. Lee.             |
| Bellefonte.....        | Center.....       | 1,050           | 25                      | 34.9                         | +7.2                      | 62      | 19    | 8      | 1     | 30                       | 1.72  | -1.05                     | 0.57                 | 2.1                       | 11                           | 7     | 7          | 17                           | sw.       | U. S. Weather Bureau.       |
| Bethlehem.....         | Northampton.....  | 364             | 43                      | 39.0                         | +9.0                      | 58      | 23    | 12     | 1     | 29                       | 1.68  | -1.87                     | 0.47                 | 1.8                       | 9                            | 13    | 0          | 18                           | w.        | Lehigh University.          |
| Carlisle.....          | Cumberland.....   | 467             | 67                      | 38.0                         | +9.9                      | 65      | 11    | 12     | 1     | 37                       | 2.20  | -0.92                     | 0.81                 | 7.0                       | 8                            | 16    | 7          | 8                            | nw.       | Prof. C. E. Miller.         |
| Catawissa.....         | Columbia.....     | 520             | 37                      | 37.3                         | +9.6                      | 60      | 20    | 10     | 1     | 31                       | 1.75  | -1.41                     | 0.65                 | 2.0                       | 8                            | 12    | 8          | 11                           | .....     | W. L. Gearhart.             |
| Center Hill.....       | Center.....       | 1,272           | 37                      | 37.0                         | +11.2                     | 62      | 19    | 8      | 1     | 32                       | 1.47  | -1.09                     | 0.68                 | 3.0                       | 6                            | 22    | 3          | 6                            | .....     | S. W. Smith.                |
| Chambersburg.....      | Franklin.....     | 580             | 34                      | 39.0                         | +10.1                     | 63      | 19    | 13     | 1     | 30                       | 1.63  | -1.10                     | 0.60                 | 1.5                       | 10                           | 8     | 13         | 10                           | sw.       | William B. Spear.           |
| Clearfield.....        | Clearfield.....   | 1,120           | 26                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | E. W. Hess.                 |
| Coatesville.....       | Chester.....      | 380             | 46                      | 38.5                         | +8.6                      | 60      | 7†    | 13     | 1     | 29                       | 2.08  | -1.89                     | 0.74                 | T                         | 10                           | 14    | 4          | 13                           | nw        | Howard L. Pyle.             |
| Colebrook.....         | Lebanon.....      | 560             | 22                      | 35.4                         | +8.4                      | 57      | 7†    | 12     | 2     | 29                       | 1.71  | -1.64                     | 0.64                 | 3.1                       | 10                           | 15    | 5          | 11                           | w.        | Wm. A. Rorer.               |
| Emporium.....          | Cameron.....      | 1,050           | 46                      | 35.4                         | +9.9                      | 64      | 23    | 4      | 1     | 35                       | 2.14  | -1.40                     | 0.75                 | 0.5                       | 10                           | 11    | 5          | 15                           | s.        | T. B. Lloyd.                |
| Ephrata.....           | Lancaster.....    | 380             | 41                      | 38.8                         | +9.2                      | 60      | 23    | 14     | 1     | 30                       | 1.55  | -1.49                     | 0.65                 | T                         | 6                            | 13    | 6          | 12                           | n.        | Ira J. Keath.               |
| Freeland.....          | Luzerne.....      | 1,970           | 40                      | 33.2                         | +9.3                      | 55      | 4     | 3      | 1     | 26                       | 2.00  | -1.57                     | 0.54                 | 9.0                       | 11                           | 9     | 6          | 16                           | nw.       | Theo. Reichmann.            |
| George School.....     | Bucks.....        | 190             | 27                      | 40.2                         | +9.6                      | 63      | 23    | 14     | 1     | 34                       | 1.69  | -1.47                     | 0.72                 | T                         | 8                            | 12    | 5          | 14                           | nw.       | Prof. N. W. Swayne          |
| Gettysburg.....        | Adams.....        | 553             | 60                      | 40.5                         | +11.1                     | 61      | 19†   | 15     | 1     | 33                       | 1.78  | -1.36                     | 0.72                 | 1.2                       | 8                            | 14    | 4          | 13                           | s.        | Dr. Henry Stewart           |
| Gordon.....            | Schuylkill.....   | 840             | 29                      | 35.4                         | +9.1                      | 56      | 4     | 9      | 1     | 37                       | 1.70  | -2.12                     | 0.48                 | 4.0                       | 8                            | 18    | 5          | 8                            | w.        | Sallie M. Johnson.          |
| Gouldsboro.....        | Wayne.....        | 1,875           | 18                      | 30.2                         | .....                     | 48      | 1†    | 5      | 1     | 43                       | 1.84  | -1.35                     | 0.56                 | 8.0                       | 5                            | 14    | 7          | 10                           | sw.       | Gustav Holtz.               |
| Hamburg.....           | Berks.....        | 535             | 40                      | 36.6                         | +8.3                      | 58      | 22    | 11     | 1     | 40                       | 1.55  | -1.96                     | 0.66                 | 2.0                       | 4                            | 8     | 19         | 4                            | w.        | State Sanatorium.           |
| Hanover.....           | York.....         | 600             | 29                      | 41.8                         | +9.7                      | 63      | 7     | 15     | 1     | 36                       | 2.60  | -0.57                     | 1.35                 | T                         | 9                            | 15    | 6          | 10                           | s.        | Thomas Y. Cooper.           |
| Harrisburg.....        | Dauphin.....      | 361             | 64                      | 38.9                         | +9.9                      | 59      | 23    | 15     | 1     | 26                       | 1.62  | -1.47                     | 0.55                 | 1.9                       | 9                            | 9     | 7          | 15                           | nw.       | U. S. Weather Bureau.       |
| Hawley.....            | Wayne.....        | 900             | 15                      | 32.6                         | +8.0                      | 54      | 16    | -6     | 1     | 37                       | 1.71  | -0.87                     | 0.60                 | 10.1                      | 11                           | 16    | 7          | 8                            | w.        | Mrs. Della M. Pennell.      |
| Holtwood.....          | Lancaster.....    | 200             | 18                      | 39.4                         | +9.3                      | 63      | 8†    | 16     | 1†    | 41                       | 1.97  | -1.31                     | 1.08                 | T                         | 10                           | 10    | 11         | 10                           | .....     | H. W. Lowy, C. E.           |
| Huntingdon.....        | Huntingdon.....   | 650             | 46                      | 37.2                         | +8.7                      | 66      | 19    | 10     | 1†    | 41                       | 2.23  | -1.00                     | 0.71                 | 4.0                       | 7                            | 11    | 7          | 13                           | e.        | Prof. Paul R. Yoder.        |
| Hyndman.....           | Bedford.....      | 977             | 21                      | 38.8                         | +8.7                      | 68      | 19    | 12     | 1†    | 41                       | 2.66  | -0.47                     | 1.16                 | 0.8                       | 9                            | 10    | 3          | 18                           | .....     | Horace A. Sheavly.          |
| Lancaster.....         | Lancaster.....    | 255             | 46                      | 35.7                         | +6.0                      | 57      | 23    | 10     | 1     | 32                       | 1.85  | -1.39                     | 0.75                 | 2.0                       | 7                            | 15    | 10         | 6                            | w.        | Supt. of Water Works.       |
| Lawrenceville.....     | Tioga.....        | 1,000           | 36                      | 35.4                         | +10.8                     | 63      | 19    | 5      | 1     | 36                       | 0.54  | -1.43                     | 0.24                 | 2.0                       | 4                            | 14    | 5          | 12                           | .....     | C. P. Darling.              |
| Lebanon.....           | Lebanon.....      | 469             | 49                      | 36.5                         | +7.7                      | 60      | 7     | 12     | 1     | 35                       | 1.72  | -1.73                     | 0.61                 | 1.5                       | 10                           | 16    | 3          | 7                            | w.        | Lebanon Valley Gas Co.      |
| Lewisburg.....         | Union.....        | 450             | 57                      | 37.5                         | +11.2                     | 57      | 20†   | 11     | 1     | 28                       | 2.20  | -0.80                     | 0.65                 | 3.0                       | 7                            | 13    | 6          | 12                           | w.        | Prof. W. G. Owens.          |
| Lock Haven.....        | Clinton.....      | 560             | 43                      | 36.9                         | +9.5                      | 64      | 20    | 10     | 1     | 31                       | 1.57  | -1.57                     | 0.50                 | 1.0                       | 7                            | 9     | 9          | 13                           | sw.       | Joseph Beaver.              |
| Lykens.....            | Dauphin.....      | 680             | 18                      | 36.6                         | +8.9                      | 58      | 23    | 5†     | 1     | 37                       | 1.80  | -1.39                     | 0.64                 | 5.0                       | 5                            | 20    | 5          | 6                            | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook.....       | Delaware.....     | 50              | 6                       | 42.8                         | .....                     | 65      | 5†    | 17†    | 1     | 31†                      | 2.64  | .....                     | 1.65                 | T                         | 5                            | 24    | 2          | 5                            | sw.       | Sun Oil Co.                 |
| Mauch Chunk.....       | Carbon.....       | 600             | 44                      | 37.0                         | +9.7                      | 60      | 23    | 18     | 2     | 32                       | 1.70  | -2.04                     | 0.54                 | 2.5                       | 6                            | 13    | 3          | 15                           | s.        | R. K. Wintermute.           |
| Mifflintown.....       | Juniata.....      | 445             | 29                      | 37.8                         | +9.9                      | 64      | 17    | 12     | 1†    | 35                       | 1.85  | -1.08                     | 0.77                 | 1.2                       | 4                            | 13    | 4          | 14                           | w.        | W. H. Manbeck.              |
| Monroeville.....       | Susquehanna.....  | 1,720           | 29                      | 32.4                         | +11.4                     | 54      | 18†   | 2      | 13    | 34                       | 2.20  | -0.39                     | 0.90                 | 5.0                       | 5                            | 7     | 8          | 16                           | s.        | Silas Jagger.               |
| Mt. Pocono.....        | Monroe.....       | 1,658           | 27                      | 33.0                         | +10.2                     | 48      | 19    | 10     | 1†    | 22                       | 1.23  | -2.00                     | 0.72                 | 0.8                       | 7                            | 16    | 4          | 11                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley.....      | Sullivan.....     | 1,045           | 21                      | 32.4                         | +7.8                      | 54      | 23    | 6      | 1†    | 34                       | 1.59  | -1.61                     | 0.68                 | 2.5                       | 4                            | 14    | 10         | 7                            | nw.       | H. O. Hacker.               |
| Neshaminy Falls I..... | Bucks.....        | 60              | 44                      | 37.9                         | +9.9                      | 62      | 23    | 13     | 1     | 35                       | 2.01  | -1.11                     | 0.60                 | T                         | 9                            | 18    | 6          | 7                            | w.        | Philadelphia Sub. Water Co. |
| Palmerton.....         | Carbon.....       | 398             | 15                      | 36.0                         | .....                     | 56      | 7†    | 13     | 1     | 32                       | 1.59  | -0.98                     | 0.41                 | 3.6                       | 9                            | 10    | 7          | 14                           | nw.       | New Jersey Zinc Co.         |
| Philadelphia.....      | Philadelphia..... | 114             | 62                      | 42.6                         | +10.0                     | 63      | 23    | 17     | 1     | 25                       | 2.66  | -0.64                     | 1.54                 | T                         | 9                            | 10    | 6          | 15                           | sw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn.....  | Philadelphia..... | 113             | 9                       | 42.0                         | .....                     | 64      | 23    | 17     | 12    | 17                       | 2.72  | .....                     | 1.55                 | T                         | 8                            | 7     | 14         | 10                           | .....     | Julius Bernstein.           |
| Phila. Navy Yard.....  | Philadelphia..... | 12              | 17                      | 40.2                         | +8.5                      | 63      | 23    | 18     | 1     | 24                       | 2.36  | -0.75                     | 1.30                 | 0.3                       | 9                            | 3     | 12         | 16                           | sw.       | Commandant, Navy Yard.      |
| Phoenixville.....      | Chester.....      | 100             | 23                      | 39.4                         | +9.5                      | 61      | 23    | 18     | 1     | 34                       | 2.19  | -1.47                     | 0.80                 | T                         | 5                            | 17    | 10         | 4                            | s.        | Philadelphia Sub. Water Co. |
| Quakertown.....        | Bucks.....        | 496             | 48                      | 36.8                         | +10.9                     | 58      | 23    | 12     | 1     | 29                       | 1.52  | -1.96                     | 0.67                 | 1.9                       | 5                            | 11    | 9          | 11                           | nw.       | John E. Benner.             |
| Reading.....           | Berks.....        | 514             | 63                      | 40.8                         | +11.4                     | 60      | 23    | 14     | 1     | 27                       | 1.21  | -2.36                     | 0.58                 | 0.4                       | 9                            | 8     | 9          | 14                           | nw.       | U. S. Weather Bureau.       |
| Scranton.....          | Lackawanna.....   | 805             | 39                      | 35.3                         | +8.7                      | 55      | 19    | 9      | 1     | 24                       | 1.12  | -1.91                     | 0.42                 | 5.2                       | 10                           | 6     | 10         | 15                           | sw.       | U. S. Weather Bureau.       |
| Selinsgrove.....       | Snyder.....       | 455             | 43                      | 36.5                         | +8.1                      | 58      | 20    | 10     | 1     | 29                       | 1.98  | -1.06                     | 0.68                 | 3.0                       | 9                            | 8     | 9          | 14                           | w.        | Dr. George E. Fisher.       |
| Shawmont II.....       | Philadelphia..... | 51              | 37                      | 39.7                         | +9.3                      | 56      | 7†    | 16     | 1     | 27                       | 1.98  | -1.30                     | 0.89                 | T                         | 7                            | 10    | 12         | 9                            | nw.       | W. S. Guiles.               |
| State College.....     | Center.....       | 1,217           | 49                      | 35.3                         | +9.0                      | 57      | 23    | 6      | 1     | 27                       | 2.21  | -0.78                     | 0.66                 | 2.5                       | 9                            | 10    | 11         | 10                           | w.        | C. A. Kern.                 |
| Stroudsburg.....       | Monroe.....       | 500             | 19                      | 33.6                         | +7.1                      | 59      | 23    | 7      | 2     | 37                       | 1.89  | -1.22                     | 0.43                 | 5.3                       | 10                           | 9     | 5          | 17                           | nw.       | State Normal School.        |
| Towanda.....           | Bradford.....     | 754             | 39                      | 34.8                         | +9.7                      | 57      | 19    | 8      | 1     | 33                       | 1.50  | -0.56                     | 0.43                 | 3.5                       | 7                            | 3     | 14         | 14                           | sw.       | Hiram E. Bull, C. E.        |
| Wellsboro.....         | Tioga.....        | 1,419           | 63                      | 35.8                         | +10.0                     | 62      | 19    | 3      | 1     | 32                       | 1.07  | -1.42                     | 0.35                 | 2.5                       | 6                            | 19    | 4          | 8                            | w.        | George W. Hill.             |
| West Chester.....      | Chester.....      | 455             | 84                      | 40.6                         | +8.4                      | 60      | 7†    | 14     | 1     | 29                       | 2.49  | -1.30                     | 1.44                 | T                         | 6                            | 17    | 4          | 10                           | w.        | Joseph W. Belt.             |
| Williamsport.....      | Lycoming.....     | 521             | 47                      | 36.0                         | +8.7                      | 58      | 20    | 9      | 1     | 28                       | 1.81  | -1.14                     | 0.61                 | 1.5                       | 12                           | 13    | 5          | 13                           | se.       | Miss Veronica E. April.     |
| York.....              | York.....         | 400             | 45                      | 39.0                         | +9.4                      | 63      | 7     | 16     | 1     | 35                       | 2.22  | -0.70                     | 1.11                 | T                         | 10                           | 11    | 13         | 7                            | w.        | York Water Co.              |
| Ohio Drainage.         |                   |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam I.....      | Beaver.....       | 700             | 41                      | 37.7                         | +7.9                      | 69      | 22†   | 10     | 1     | 29                       | 1.90  | -0.98                     | 0.49                 | .....                     | 10                           | 7     | 10         | 14                           | sw.       | U. S. Engineer.             |
| Bradford.....          | McKean.....       | 1,460           | 14                      | 33.9                         | +10.7                     | 62      | 22    | 2      | 1     | 30                       | 1.50  | -1.95                     | 0.52                 | 1.0                       | 11                           | 12    | 9          | 10                           | sw.       | Supt. Timber Pres. Plant.   |
| Brookville.....        | Jefferson.....    | 1,173           | 43                      | 32.9                         | +8.9                      | 65      | 23    | -4     | 2     | 43                       | 1.58  | -1.50                     | 0.49                 | T                         | 7                            | 16    | 5          | 10                           | .....     | John Fawcett.               |
| Butler.....            | Butler.....       | 1,077           | 20                      | 36.9                         | .....                     | 67      | 2     |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



## Daily Precipitation for January, 1933

| Stations           | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |     |     |     |      |      |     |     |     |     |    | Total |
|--------------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|----|-------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14  | 15 | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25   | 26   | 27  | 28  | 29  | 30  | 31 |       |
| Atlantic Drainage. |                |              |     |     |     |     |     |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |     |     |     |      |      |     |     |     |     |    |       |
| Allentown          | Lehigh         | .01          |     |     |     | .01 |     |     |     | .08 | .44 |     | .03 |    |     |    |     | T.  |     | .25 | T.  |     | .31 | .09 |     |      | .35  |     | .16 |     |     |    | 1.73  |
| Altoona            | Juniata        |              |     |     |     |     |     |     |     | .34 |     | .17 | .08 |    |     |    |     |     |     | .43 |     |     | .58 |     |     | .10  | .58  | .02 | .04 |     |     |    | 2.34  |
| Ansonia            | W. Br. Susq.   | T.           |     |     |     |     |     | T.  | .03 |     | .19 |     | .02 |    |     |    |     | T.  |     | .36 | .01 |     | .13 | .12 |     | .20  | .20  |     |     |     |     |    | 1.06  |
| Ardmore            | Lower Del.     |              |     |     |     |     |     |     | .03 | .97 |     | .04 |     |    |     |    |     |     |     | .16 |     |     | .02 |     |     | .62  | .84  | .20 | .10 |     |     |    | 2.98  |
| Arendtsville       | Lower Susq.    |              |     |     |     |     |     |     |     |     | .40 |     |     |    |     |    |     |     |     |     |     | .11 | .15 | .04 |     | .55  |      | .01 |     |     |     |    | 1.26  |
| Baker's Summit     | Juniata        |              |     |     |     |     |     |     |     | .44 |     | .07 |     |    |     |    |     |     |     | .26 |     | .09 | .34 |     |     | .12  | .83  | .06 | .06 |     |     |    | 2.27  |
| Bedford            | Juniata        |              |     |     |     |     |     |     |     | .84 |     |     | .03 |    | T.  |    |     |     |     | .07 |     | .14 | .23 |     |     | .25  | .64  | .07 | .04 |     |     |    | 1.81  |
| Bellefonte         | W. Br. Susq.   |              |     | .03 | .02 |     | .01 |     |     | .19 |     | .05 | T.  |    |     |    | T.  | T.  | .06 | .30 |     | T.  | .57 |     |     | .38  | .10  | .01 | T.  |     |     |    | 1.72  |
| Bethlehem          | Lehigh         |              |     | T.  | .01 |     | T.  |     |     | .47 |     |     | .02 |    |     |    |     |     |     | .27 | .01 | T.  | .41 | .01 |     |      | .32  |     | .16 |     |     |    | 1.68  |
| Blosserville       | Lower Susq.    |              | T.  |     | .02 |     |     |     |     | .30 |     |     |     |    |     |    |     |     | .20 | .05 |     |     |     |     |     |      | 1.62 | T.  |     |     |     |    | 2.54  |
| Buffalo Mills      | Juniata        |              |     |     |     |     |     |     |     |     | .15 |     |     |    |     |    |     |     |     |     |     |     | .65 | .05 |     | .90  | .30  | .27 |     |     |     |    | 2.32  |
| Carlisle           | Lower Susq.    |              |     |     | .03 |     |     |     |     | .66 |     | T.  | .10 |    |     |    |     |     |     | .20 |     | .07 | .28 |     |     | T.   | .81  | .05 |     |     |     |    | 2.20  |
| Catawissa          | N. Br. Susq.   |              |     |     |     | .03 |     | T.  |     | .65 |     | .05 |     |    |     |    |     | .05 | .05 |     | .22 |     |     | .58 |     |      | .07  | .08 |     | T.  |     |    | 1.75  |
| Center Hall        | Susquehanna    |              |     |     |     |     |     |     |     | .30 |     | .17 |     |    |     |    |     |     |     |     |     | .02 | .68 |     |     |      | .20  | .10 |     |     |     |    | 1.47  |
| Chambersburg       | Potomac        |              |     |     | .01 |     |     |     |     | .40 |     |     | .12 |    |     |    |     |     |     | .08 |     | .12 | .20 |     |     | .07  | .53  | .08 | .02 |     |     |    | 1.63  |
| Clearfield         | W. Br. Susq.   |              |     |     |     |     |     |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |     |     |     |      |      |     |     |     |     |    | 1.48  |
| Coatesville        | Lower Del.     |              |     |     |     |     |     |     |     | .74 |     |     | .02 |    |     |    |     | T.  |     | .11 |     | .04 | .13 | .01 |     | .21  | .69  | .03 | .10 |     |     |    | 2.08  |
| Colebrook          | Lower Susq.    |              |     | T.  | .01 |     |     |     |     | .56 | T.  |     |     |    | .01 |    |     |     |     | .15 |     | .04 | .24 | T.  |     | .15  | .49  | *   | .06 |     |     |    | 1.71  |
| Coushock           | Schuylkill     |              |     |     |     |     | T.  |     |     | .68 |     |     | .03 |    |     |    |     |     |     | .15 |     | .02 | .08 |     |     | .41  | 1.08 | T.  | .13 | T.  |     |    | 2.58  |
| Cresson            | Juniata        |              |     |     |     |     |     |     |     | .28 |     | .30 |     |    |     |    |     |     |     | .30 |     |     | .39 |     |     | .60  | .28  | .05 | .05 |     |     | T. | 2.25  |
| Doylestown         | Lower Del.     |              |     | T.  |     |     | T.  |     |     | .72 |     | .01 |     |    |     |    |     |     |     | T.  |     | T.  | .27 |     |     | T.   | .40  | T.  | .05 |     |     |    | 1.45  |
| Emporium           | W. Br. Susq.   |              |     | T.  | .04 |     | .07 |     |     | .05 | T.  | .06 | T.  |    |     |    | .06 | .26 |     | .75 |     | .58 |     |     | .07 | .20  |      |     |     |     |     |    | 2.14  |
| Ephrata            | Lower Susq.    |              |     | T.  |     |     |     |     |     | .60 |     |     |     |    |     |    |     |     |     | .14 |     | .02 | .11 |     |     | T.   | .65  |     | .03 |     |     |    | 1.55  |
| Forest City        | N. Br. Susq.   |              |     |     | T.  |     |     |     |     |     | T.  | .62 | .25 |    |     |    |     |     |     | .11 |     |     | .27 | .17 |     | .19  |      | .14 |     |     |     |    | 1.75  |
| Freeland           | Lehigh         | .06          |     |     | .06 |     |     |     | .03 | .06 | .48 |     | .26 |    |     |    |     |     |     | .19 | .06 |     |     | .35 | .16 |      | .12  |     | .17 |     |     |    | 2.00  |
| Galeton            | W. Br. Susq.   |              |     | T.  |     |     |     | .06 |     | .19 |     | .06 |     |    |     |    |     | T.  | .56 |     |     |     | .41 | .16 |     |      | .26  |     |     |     |     |    | 1.54  |
| George School      | Lower Del.     |              |     |     |     |     | T.  |     |     | .58 | .14 |     | .08 |    |     |    |     |     | .18 |     | T.  | .08 |     |     |     | .01  | .56  |     | .06 |     |     |    | 1.69  |
| Gettysburg         | Potomac        |              |     |     | T.  |     |     |     |     | .48 |     |     |     | T. |     |    |     |     |     | .07 |     |     | .17 | .20 |     |      | .03  | .72 | .07 | .04 |     |    | 1.78  |
| Girardville        | Lower Susq.    |              |     |     | .08 |     | .02 |     |     | .49 |     | .14 |     |    |     |    |     | T.  |     | .20 |     |     | .35 |     |     | .20  |      |     |     |     |     |    | 1.48  |
| Gordon             | Lower Susq.    |              |     |     | .09 |     | .02 |     |     | .43 |     |     | .22 |    |     |    |     |     |     | .18 |     |     | .26 |     |     |      | .48  |     | .02 |     |     |    | 1.70  |
| Gouldsboro         | Lehigh         |              |     |     |     |     |     |     |     |     | .29 |     | .56 |    |     |    |     |     |     | .28 |     |     | .52 |     |     |      | .19  |     |     |     |     |    | 1.84  |
| Graterford         | Schuylkill     |              |     |     |     |     |     |     |     | .64 |     |     |     |    |     |    |     |     |     | .08 |     |     | .21 |     |     | .38  |      |     | .18 |     |     |    | 1.49  |
| Hamburg            | Schuylkill     |              |     |     |     | .08 |     |     |     |     | .55 |     |     |    |     |    |     |     |     |     |     |     | .26 |     |     | .66  |      |     |     |     |     |    | 1.55  |
| Hanover            | Lower Susq.    |              |     | T.  | T.  |     |     |     |     | .54 |     | .10 |     |    | T.  |    |     |     |     | .04 |     | .28 | .14 |     |     | .05  | 1.30 | .05 | .10 |     |     |    | 2.60  |
| Harrisburg         | Lower Susq.    |              |     | T.  | .01 |     | T.  |     |     | .55 |     | .02 |     |    | T.  |    |     |     |     | .17 |     | .05 | .24 |     |     | .38  | .15  | .05 |     |     |     |    | 1.62  |
| Hawley             | Upper Del.     | .05          |     |     | T.  |     |     |     | T.  | .08 | .52 |     | .10 |    |     |    |     | T.  |     | .24 | .02 | .25 |     | .16 |     | .16  |      | .12 |     |     | .01 |    | 1.71  |
| Hollisterville     | Upper Del.     | .01          |     |     | .01 | .05 |     |     | .11 | .05 | .47 |     | .18 |    |     |    |     |     |     | .20 | .04 | .28 | .13 |     |     | .21  |      | .13 |     |     | .02 |    | 1.89  |
| Holtwood           | Lower Susq.    |              |     |     | .04 |     |     |     |     | .22 | .34 |     | T.  |    | T.  | T. |     |     |     | .04 | T.  | .06 | .08 | .02 |     |      | 1.08 | .04 | .05 |     |     |    | 1.97  |
| Huntingdon         | Juniata        |              |     | T.  |     |     |     |     |     | .37 |     | T.  |     |    |     |    |     | .09 |     | .31 |     |     | .70 |     |     | .25  | .46  | T.  | .05 |     |     |    | 2.23  |
| Hyndman            | Potomac        |              |     |     | .03 |     |     |     |     | .28 |     | T.  | T.  |    |     |    |     |     |     | .14 |     | .14 | .46 |     |     | .24  | 1.16 | .20 | .01 |     |     |    | 2.66  |
| Kylertown          | W. Br. Susq.   |              | .08 |     |     |     | .05 |     |     | .23 |     | .04 | .13 |    |     |    |     | .05 |     | .42 |     |     | .52 |     |     | .05  | .36  | .08 |     |     |     |    | 2.01  |
| Kyle               | Upper Del.     | .07          |     |     |     |     |     | .02 |     | .15 | .45 | T.  | .14 |    |     |    |     |     |     |     | .25 |     | .23 |     |     |      | .05  | .37 |     |     | T.  |    | 1.68  |
| Lancaster          | Lower Susq.    |              |     | .03 |     |     |     |     |     | .75 |     | .14 | .25 |    |     |    |     |     |     | .15 |     | .08 | .12 |     |     | .60  |      | .12 |     |     |     |    | 1.85  |
| Lansford           | Lehigh         | T.           |     |     | .08 |     |     | T.  | *   | .14 | .25 |     | .08 |    |     |    |     |     |     | .17 |     |     | .10 | .25 |     |      | .28  | T.  | .05 |     |     |    | 1.30  |
| Lawrenceville      | N. Br. Susq.   |              |     |     |     |     |     |     |     | .10 |     |     | T.  |    |     |    |     | T.  |     | .24 |     |     | .10 |     |     | .10  |      |     |     |     |     |    | 0.54  |
| Lebanon            | Lower Susq.    |              |     | T.  | .02 |     |     | .01 | .18 | .33 |     | .04 |     |    |     |    |     | T.  |     | .23 |     |     | .18 | .09 |     | .61  | T.   | .03 |     |     |     |    | 1.72  |
| Lewisburg          | W. Br. Susq.   |              |     |     | T.  |     |     | .01 |     | .57 |     | T.  | .20 |    |     |    |     |     | .02 |     | .25 |     |     | .65 |     | T.   | .50  |     |     |     |     |    | 2.20  |
| Lloyd              | do             |              |     |     |     |     |     |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |     |     |     |      |      |     |     |     |     |    |       |
| Lock Haven         | W. Br. Susq.   |              |     |     |     | .04 |     |     |     | .21 | .04 |     |     |    |     |    |     | .19 |     | .33 |     |     | .50 |     |     | .26  |      |     |     |     |     |    | 1.57  |
| Lykens             | Susquehanna    |              |     |     |     | T.  |     |     |     | .46 |     |     | .21 |    |     |    |     |     |     | .33 |     |     | .33 |     |     |      | .64  | T.  |     |     |     |    | 1.80  |
| Marcus Hook        | Lower Del.     |              |     |     |     |     |     |     |     | .70 |     |     |     |    |     |    |     |     |     |     |     | .12 |     |     | *   | 1.65 | T.   | .17 |     |     |     |    | 2.64  |
| Matamoras          | Upper Del.     |              |     |     |     | .08 |     |     |     | .15 | .42 |     | .30 |    |     |    |     |     |     | .30 |     | .39 | .10 |     |     | .25  | .04  |     |     |     |     |    | 2.03  |
| Mauch Chunk        | Lehigh         |              |     |     | .06 |     |     |     |     | .54 |     | T.  |     |    |     |    |     |     |     | .22 |     | .35 |     |     |     | .39  |      | .14 |     |     |     |    | 1.70  |
| Mifflintown        | Juniata        |              |     | T.  |     |     | T.  |     |     | .38 |     | T.  |     |    |     |    |     |     |     | .31 |     | .39 |     |     |     | T.   | .77  |     |     |     |     |    | 1.85  |
| Montrose           | N. Br. Susq.   | .20          |     |     |     |     |     |     |     | .30 |     |     |     |    |     |    |     | .90 |     |     |     | .60 |     |     |     |      |      | .20 |     |     |     |    | 2.20  |
| Morris Run         | N. Br. Susq.   |              |     |     |     | .08 |     |     |     | .27 |     | .09 | .06 |    |     |    |     | .01 |     | .40 |     |     | .34 |     |     | .39  |      | .02 |     |     |     |    | 1.66  |
| Mount              |                |              |     |     |     |     |     |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |     |     |     |      |      |     |     |     |     |    |       |



## CLIMATOLOGICAL DATA: PENNSYLVANIA SECTION.

JANUARY, 1933

## Daily Precipitation for January, 1933—Continued from page 3

| Stations        | Drainage Basin | Day of month |    |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |    |      |      |      |      |     |     |     | Total |      |      |
|-----------------|----------------|--------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|------|------|------|------|-----|-----|-----|-------|------|------|
|                 |                | 1            | 2  | 3  | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24 | 25   | 26   | 27   | 28   | 29  | 30  | 31  |       |      |      |
| Ohio Drainage   |                |              |    |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |    |      |      |      |      |     |     |     |       |      |      |
| Beaver Dam      | Ohio           | .02          |    |    |     | .23 |     |     |     |     | .04 |     | .04 | T.  |     |    |     |     |     | .38 |     | .05 | .49 | .01 |    |      |      | .47  |      | .17 |     |     |       | 1.90 |      |
| Beaver Falls    | Beaver         | .02          |    |    |     | .16 |     |     |     |     | .03 |     | T.  | T.  |     |    |     |     |     | .46 | T.  | .01 | .32 | T.  |    |      |      | .33  |      | .22 |     | T.  | T.    | 1.55 |      |
| Bradford        | Allegheny      |              |    |    | .02 | .06 |     | .05 |     |     |     | .10 | .04 |     |     |    | .01 | .03 |     | .52 |     |     | .33 |     |    |      | .05  | .29  |      |     |     |     | T.    |      | 1.50 |
| Brookville      | do             | .05          |    |    |     | .05 |     | T.  |     |     |     | .10 |     | .18 | T.  |    |     |     |     | .49 |     |     | .45 |     |    |      |      | .26  |      |     |     |     |       | 1.58 |      |
| Butler          | Ohio           |              |    |    | .30 |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     | .38 |     |    |      |      | .27  | .10  |     |     |     |       | 1.05 |      |
| Chambersville   | Allegheny      |              |    |    | .52 |     |     | T.  |     | .24 |     | .03 | .07 |     |     |    |     | .01 |     | .54 |     | .02 | .65 |     |    |      | .10  | .59  | .10  | .02 |     |     |       | 2.89 |      |
| Clairton        | Monongahela    |              |    |    | .05 | T.  |     |     |     | .22 |     | T.  | T.  |     |     |    |     |     | .15 | .19 |     | .25 | .27 |     |    | 1.25 | .08  | T.   | T.   |     |     |     | 2.46  |      |      |
| Claysville      | Ohio           |              |    |    | T.  | .12 |     |     |     | .26 | T.  | .05 |     |     |     |    |     | .02 | T.  | .27 |     | .07 | .40 |     |    |      | .59  | .70  | .19  | .05 | T.  |     |       | 2.72 |      |
| Clymer          | Conemaugh      |              |    |    |     |     |     |     |     | .30 |     |     | .12 |     |     |    |     |     |     | .55 |     | .30 | .65 |     |    |      |      | .68  |      | T.  |     |     |       | 2.60 |      |
| Confluence      | Youghiogheny   | .13          |    |    |     | .29 |     | T.  | T.  | .22 | .15 |     | .22 |     |     |    |     |     |     | .15 | .08 | .22 | .27 | T.  |    |      |      | .52  |      | .10 |     |     |       | 2.35 |      |
| Corry           | Allegheny      |              |    |    | .23 |     |     | .04 |     |     |     |     | T.  |     | .04 |    |     |     |     | .49 |     | .45 |     |     |    |      |      | .24  | .03  |     |     |     | .02   | 1.58 |      |
| Coudersport     | Allegheny      |              |    |    | .05 |     |     | .05 |     | .21 |     | .10 |     |     |     |    | .02 |     |     | .42 | .18 |     | .10 | T.  |    |      | .20  | .07  |      | T.  |     |     |       | 1.40 |      |
| Derry           | Conemaugh      |              |    |    | .18 |     |     |     |     | .40 |     | .22 | .03 |     |     |    |     | T.  | .13 | .41 |     | .42 |     |     |    |      | .45  | .57  | .13  | T.  |     |     |       | 2.94 |      |
| Donora          | Monongahela    | .02          |    |    | T.  | .13 |     | .01 |     | .25 | .04 |     | .07 |     |     |    |     | T.  |     | .25 |     | .08 | .26 |     |    |      | 1.62 | .01  | .14  |     | .01 |     |       | 2.89 |      |
| Ebensburg       | Conemaugh      | T.           |    |    |     | .02 |     |     |     | .15 |     | .21 | T.  |     |     |    |     |     |     | T.  |     | .70 |     |     |    |      | T.   | .80  | .03  | .02 |     | .20 |       | 1.93 |      |
| Elk Lick        | Youghiogheny   |              |    |    |     |     |     |     |     | .20 |     | .20 |     |     |     |    |     |     |     |     |     | .70 |     |     |    |      |      | .30  |      |     |     |     |       | 2.30 |      |
| Franklin        | Allegheny      | .04          |    |    |     | .08 |     |     |     | T.  |     |     | .03 |     |     |    | T.  |     |     | .50 |     |     | .35 |     |    |      |      | .16  |      | .29 | T.  |     |       | 1.45 |      |
| Freeport        | do             | .04          |    |    |     | .37 |     | .01 |     | .02 | .07 |     | .02 |     |     |    |     | .02 |     | .63 | .04 | .04 | .62 | .03 |    |      |      | .85  | .01  | .29 |     |     |       | 3.06 |      |
| Greensburg      | Monongahela    | .16          |    |    | T.  | .20 |     | .01 | T.  | .33 | .18 |     | .10 |     |     |    |     | .02 | .02 | .05 | .10 | .31 | .15 | .03 |    |      |      | 1.08 |      | .17 |     |     |       | 2.91 |      |
| Greensburg      | Youghiogheny   | .01          |    |    |     | .07 |     | T.  |     | .35 | T.  | .07 | T.  |     |     |    |     | .09 |     | .38 |     | .11 | .36 |     |    |      | .69  | .68  | .10  | .01 | T.  |     |       | 2.92 |      |
| Greenville      | Beaver         |              |    |    | .02 |     |     |     |     | T.  |     |     |     |     |     |    |     |     |     | .28 |     | .45 |     |     |    |      |      | .28  | .23  |     |     |     |       | 1.31 |      |
| Grove City      | do             |              |    |    | .08 |     |     | T.  |     | .01 |     | T.  | T.  |     |     |    |     | T.  |     | .50 |     | T.  | .59 |     |    |      |      | .11  | .32  | T.  |     |     |       | 1.61 |      |
| Herr's Isl. Dam | Ohio           | .04          |    |    |     | .16 |     |     |     | .10 | .11 |     | .04 | T.  |     |    |     | T.  |     | .45 | T.  | .05 | .44 | .01 |    |      | 1.19 | T.   | .28  |     |     |     |       | 2.87 |      |
| Ingram          | do             | T.           |    |    |     | .16 |     | T.  |     | .13 |     | .01 | .01 |     |     |    |     | T.  |     | .45 |     | .05 | .47 |     |    |      | .83  | .23  | .28  | .12 | T.  |     |       | 2.74 |      |
| Irwin           | Monongahela    |              |    |    | .05 | .05 |     |     |     | .19 | .01 | .06 | T.  |     |     |    |     | .02 | T.  | .38 |     | .05 | .45 |     |    |      | .45  | .46  | .07  | T.  |     |     |       | 2.22 |      |
| Johnstown       | Conemaugh      |              |    |    | .11 |     |     | .17 |     | .38 |     | .10 | T.  |     |     |    |     | .02 | T.  | .44 |     | .06 | .77 |     |    |      | .48  | .62  | .13  | .05 | .01 |     |       | 3.34 |      |
| Kane (near)     | Allegheny      | .05          |    |    | .24 |     |     | T.  |     | .05 |     | .06 | T.  |     |     |    |     | .05 |     | .70 |     | .59 |     |     |    |      | .27  | T.   |      |     |     |     |       | 2.01 |      |
| Kegonsa         | Youghiogheny   |              |    | T. | .18 |     |     | .03 | .02 | .18 | .16 |     | .18 | T.  |     |    |     | T.  |     | .03 | .09 | .12 | .37 | .04 |    |      | 1.00 | .02  | .07  | T.  | T.  |     |       | 2.49 |      |
| Lake Lynn       | Monongahela    | .20          |    |    | .21 |     |     | .04 | T.  | .32 | .20 |     | .01 |     |     |    |     | .01 | .08 | .03 | .32 | .20 | .06 |     |    |      |      | .88  |      | .11 | .06 |     |       | 2.67 |      |
| Linesville      | Beaver         | .03          |    |    | .06 |     |     |     |     | T.  |     |     | T.  |     | .04 |    |     |     |     | .43 |     | .35 | .03 |     |    |      |      | .37  | .01  | .28 |     |     | .02   | 1.62 |      |
| Lock No. 2      | Ohio           | .04          | T. |    | .19 |     |     | .05 | .03 | .06 |     |     |     |     |     |    |     |     |     | .43 |     | .04 | .57 | .01 |    |      |      | .93  |      | .26 |     |     |       | 2.61 |      |
| Lock No. 4      | Monongahela    | .09          |    |    | .17 |     |     | .03 | T.  | .16 | .19 |     | .09 |     |     |    |     | .06 |     | .15 | .05 | .13 | .25 | .05 |    |      |      | 1.16 | .03  | .20 |     |     |       | 2.81 |      |
| Lycippus        | Conemaugh      |              |    |    |     |     |     | .27 |     | .21 |     | .03 | .20 |     |     |    |     | .01 |     | .21 |     | .37 |     |     |    |      | .20  | .85  | .16  |     |     |     |       | 2.51 |      |
| McKeesport      | Monongahela    | .06          |    |    | .04 |     |     |     |     | .17 | .06 |     |     |     |     |    |     |     |     | .40 | T.  | T.  | .47 | .02 |    |      |      | 1.43 |      | .20 |     |     |       | 2.85 |      |
| Meadville       | Allegheny      | .03          |    |    | .05 |     |     |     |     | .02 | .04 |     |     |     |     |    |     |     |     | .45 |     | .50 |     |     |    |      |      | .23  | .21  |     |     |     | T.    | 1.53 |      |
| Mosgrove        | do             | .02          |    |    | .10 |     |     | T.  | T.  | T.  | .07 |     | .05 | T.  |     |    |     |     |     | .55 | .05 | T.  | .32 | .20 |    |      |      | .39  | T.   | .25 |     |     | T.    | 2.00 |      |
| Mount Lebanon   | Ohio           |              |    |    | T.  | .18 |     |     |     | .18 | T.  | .05 |     |     |     |    |     |     | T.  | .34 |     | .40 | .40 |     |    |      | .96  | .42  | .29  | .04 |     |     |       | 2.90 |      |
| Natrona         | Allegheny      | .07          |    |    | .31 |     |     | .01 |     | .04 | .06 |     | .03 |     |     |    |     |     |     | .51 | .05 | .09 | .47 | .05 |    |      |      | .87  | .02  | .24 |     |     |       | 2.82 |      |
| New Castle      | Beaver         | .03          |    |    |     |     |     |     |     | .02 |     | .01 | .01 |     |     |    |     |     |     | .42 | T.  |     | .28 |     |    |      |      | .18  | .24  |     |     |     | .01   | 1.20 |      |
| Newell          | Monongahela    |              |    |    |     | .02 | .01 |     |     | .20 | .06 |     | .03 |     |     |    |     |     |     | .17 |     | .12 | .30 |     |    |      | .43  | .60  | .08  | .08 |     |     |       | 2.11 |      |
| Parkers Landing | Allegheny      | .05          |    |    | T.  | T.  |     |     |     |     |     |     | T.  | T.  |     |    |     |     | T.  | T.  | .67 | T.  |     | .48 | T. |      |      | .06  |      | .37 |     |     | T.    | 1.63 |      |
| Pennline        | Beaver         | .05          |    |    | .11 |     |     |     |     | .02 |     | .03 |     |     |     |    |     | .03 |     | .43 |     | .38 | .02 |     |    |      |      | .30  | .02  | .21 |     |     | .02   | 1.62 |      |
| Pittsburgh      | Ohio           | T.           |    |    | .14 |     |     | T.  |     | .09 |     | .02 | T.  |     |     |    |     | T.  | T.  | .12 | .21 |     | .05 | .31 |    |      | 1.19 | .01  | .25  | T.  | T.  | T.  |       | 2.39 |      |
| Punxsutawney    | Allegheny      | .04          |    |    | .31 |     |     |     |     | T.  | .05 |     | .04 |     |     |    |     |     |     | .22 | .22 | T.  |     | .98 |    |      |      | .44  | T.   |     |     |     |       | 2.08 |      |
| Ridgway         | do             |              |    |    |     |     |     |     |     | .09 |     | .08 |     |     |     |    |     |     | T.  | T.  | .72 |     | .42 | .02 |    |      |      | .18  | .02  | T.  |     |     |       | 1.53 |      |
| Saltsburg       | Conemaugh      | .11          |    |    | .20 |     |     | T.  |     | .07 | .10 |     | .09 |     |     |    |     |     |     | .47 | T.  | .03 | .58 | T.  |    |      |      | .98  | .01  | .23 |     |     |       | 2.87 |      |
| Sharon          | Beaver         | T.           |    |    | .07 |     |     |     |     | T.  |     |     | T.  |     |     |    |     |     |     | .37 |     | .40 |     |     |    |      |      | .24  | T.   | .29 |     |     | T.    | 1.37 |      |
| Smethport       | Allegheny      |              |    |    |     |     |     |     |     |     |     |     | .02 |     |     |    |     |     |     | .44 |     | .02 |     |     |    |      |      | .43  | T.   |     |     |     |       | 0.93 |      |
| Somerset        | Youghiogheny   | T.           |    |    |     | .07 |     |     |     | .31 |     | .08 | .19 |     |     |    |     |     |     | .19 |     | .26 | .32 |     |    |      |      | .21  | .74  | .05 | .05 |     |       | 2.47 |      |
| Springdale      | Allegheny      | .06          |    |    | .14 |     |     | T.  | T.  | .09 | .10 |     | .01 |     |     |    |     | .02 |     | .53 | .03 | .06 | .40 | .03 |    |      |      | 1.08 |      | .21 |     |     |       | 2.76 |      |
| Uniontown       | Monongahela    |              |    |    | .21 |     |     | .08 |     | .45 |     | .14 | .07 |     |     |    |     | .02 | T.  | .15 |     | .34 | .22 |     |    |      |      | .50  | .38  | .06 | .04 | T.  |       | 2.66 |      |
| Unity Reservoir | Youghiogheny   | T.           | T. |    |     |     |     | .10 |     | .38 |     | .10 |     |     |     |    |     | .10 |     | .40 |     | .09 | .44 |     |    |      |      | .35  | 1.05 | .05 |     |     |       | 3.06 |      |
| Vandergrift     | Conemaugh      |              |    |    | .16 | .04 |     |     |     | .11 |     | .01 |     |     |     |    |     |     | .02 | .40 |     |     |     | .39 |    |      |      | .94  | .03  |     |     |     | .02   | 2.12 |      |
| Warren          | Allegheny      | .05          |    |    | .01 |     |     | .03 | .02 | .02 |     | .08 |     |     |     |    |     | .04 |     | .12 |     | .33 |     |     |    |      |      | .20  | .16  | .02 | .02 |     | .01   | 1.11 |      |
| Waynesburg      | Monongahela    |              |    |    | .18 |     |     | .22 |     | .44 |     | .10 |     |     |     |    |     |     |     | .19 |     | .26 | .22 |     |    |      |      | .88  | .73  | .16 | .05 |     |       | 3.43 |      |
| Westford        | Beaver         |              |    |    | .04 |     |     |     |     | .05 |     | .04 | T.  |     |     |    |     |     |     | .48 |     | .70 |     |     |    |      |      | .35  |      | .18 |     |     | .02   | 1.86 |      |
| West Newton     | Youghiogheny   | .08          |    |    | .05 |     |     |     |     | .14 | .10 |     | .02 |     |     |    |     |     | T.  |     | .30 | .03 | .07 | .23 | T. |      |      | 1.17 |      | .12 |     |     |       | 2.31 |      |
| Lake Drainage   |                |              |    |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |    |      |      |      |      |     |     |     |       |      |      |
| Erie            | Lake Erie      |              |    |    | .01 |     |     | T.  |     |     | .01 |     | T.  |     |     |    |     |     |     |     | .04 | .20 |     | .50 |    |      |      | .22  | .12  | T.  |     |     | T.    | .03  | 1.13 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in the next following measurement  
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, New-  
ville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox. † Mdt. to mdt.

## PRESSURE, WIND, HUMIDITY AND SUNSHINE.

| Stations | Atmospheric pressure<br>(reduced to sea level) |
|----------|------------------------------------------------|
|----------|------------------------------------------------|



Daily Temperatures for January, 1933

| Stations           | 1            | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |
|--------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Allentown.....     | Maximum..... | 29    | 42    | 43    | 50    | 46    | 56    | 39    | 38    | 41    | 54    | 33    | 32    | 33    | 39    | 53    | 53    | 45    | 50    | 46    | 44    | 47    | 47    | 49    | 41    | 42    | 38    | 35    | 38    | 41    | 46    | 43.2  |       |
|                    | Minimum..... | 13    | 13    | 20    | 24    | 28    | 24    | 30    | 31    | 28    | 28    | 32    | 20    | 20    | 25    | 27    | 30    | 36    | 36    | 37    | 33    | 35    | 40    | 33    | 28    | 28    | 25    | 29    | 29    | 28    | 27    | 27.9  |       |
| Altoona.....       | Maximum..... | 29    | 44    | 46    | 54    | 51    | 52    | 53    | 40    | 36    | 40    | 47    | 47    | 31    | 31    | 46    | 54    | 50    | 50    | 63    | 56    | 45    | 50    | 58    | 50    | 39    | 41    | 41    | 36    | 29    | 35    | 42    | 44.7  |
|                    | Minimum..... | 5     | 13    | 22    | 38    | 33    | 26    | 34    | 29    | 31    | 26    | 30    | 21    | 10    | 21    | 21    | 28    | 36    | 29    | 38    | 32    | 31    | 39    | 46    | 30    | 29    | 34    | 35    | 29    | 23    | 18    | 27    | 27.9  |
| Bedford.....       | Maximum..... | 33    | 48    | 47    | 56    | 54    | 53    | 57    | 44    | 40    | 47    | 51    | 52    | 32    | 33    | 49    | 54    | 54    | 52    | 65    | 62    | 48    | 55    | 64    | 53    | 46    | 45    | 43    | 35    | 30    | 38    | 47    | 48.0  |
|                    | Minimum..... | 10    | 13    | 19    | 31    | 35    | 21    | 34    | 32    | 26    | 38    | 23    | 12    | 25    | 28    | 21    | 34    | 32    | 42    | 36    | 31    | 42    | 49    | 27    | 36    | 34    | 31    | 29    | 21    | 20    | 27    | 28.7  |       |
| Bellefonte.....    | Maximum..... | 26    | 42    | 38    | 55    | 48    | 48    | 54    | 38    | 37    | 44    | 49    | 37    | 30    | 31    | 43    | 52    | 50    | 44    | 62    | 46    | 46    | 59    | 57    | 47    | 40    | 42    | 38    | 36    | 34    | 36    | 42    | 43.6  |
|                    | Minimum..... | 8     | 15    | 17    | 28    | 25    | 21    | 32    | 30    | 30    | 20    | 32    | 16    | 10    | 23    | 23    | 22    | 36    | 29    | 38    | 28    | 28    | 39    | 35    | 26    | 35    | 34    | 31    | 28    | 25    | 24    | 24    | 26.2  |
| Brookville.....    | Maximum..... | 51    | 26    | 41    | 46    | 49    | 40    | 48    | 53    | 39    | 37    | 41    | 50    | 25    | 37    | 43    | 45    | 57    | 50    | 47    | 63    | 43    | 47    | 65    | 53    | 48    | 41    | 40    | 39    | 38    | 30    | 31    | 44.0  |
|                    | Minimum..... | 8     | -4    | 13    | 14    | 30    | 20    | 18    | 29    | 28    | 27    | 27    | 24    | 6     | 4     | 18    | 13    | 16    | 31    | 21    | 34    | 24    | 27    | 43    | 26    | 21    | 21    | 35    | 31    | 25    | 25    | 21    | 21.8  |
| Butler.....        | Maximum..... | 28    | 44    | 44    | 50    | 49    | 47    | 49    | 49    | 45    | 40    | 51    | 50    | 35    | 44    | 43    | 49    | 51    | 49    | 61    | 60    | 44    | 67    | 65    | 48    | 49    | 45    | 37    | 34    | 34    | 28    | 44    | 46.2  |
|                    | Minimum..... | 6     | 18    | 19    | 31    | 30    | 28    | 37    | 41    | 27    | 29    | 37    | 19    | 10    | 22    | 25    | 18    | 44    | 29    | 39    | 29    | 27    | 44    | 42    | 22    | 31    | 35    | 33    | 26    | 22    | 18    | 19    | 27.6  |
| Carlisle.....      | Maximum..... | 38    | 37    | 40    | 43    | 47    | 50    | 64    | 52    | 38    | 44    | 65    | 45    | 29    | 33    | 40    | 52    | 56    | 55    | 50    | 58    | 46    | 47    | 61    | 54    | 44    | 51    | 55    | 43    | 41    | 44    | 53    | 47.6  |
|                    | Minimum..... | 12    | 13    | 19    | 27    | 33    | 20    | 30    | 32    | 23    | 28    | 27    | 17    | 19    | 31    | 20    | 29    | 36    | 38    | 38    | 32    | 39    | 34    | 35    | 27    | 38    | 31    | 34    | 30    | 25    | 28    | 28.3  |       |
| Catawissa.....     | Maximum..... | 40    | 42    | 43    | 54    | 50    | 52    | 56    | 42    | 40    | 41    | 51    | 45    | 34    | 41    | 43    | 51    | 52    | 54    | 57    | 60    | 45    | 50    | 54    | 50    | 44    | 48    | 42    | 39    | 42    | 42    | 45    | 46.7  |
|                    | Minimum..... | 10    | 20    | 20    | 27    | 30    | 23    | 37    | 30    | 33    | 25    | 39    | 28    | 15    | 18    | 22    | 20    | 32    | 29    | 37    | 34    | 30    | 37    | 40    | 27    | 28    | 32    | 25    | 32    | 30    | 28    | 28    | 27.9  |
| Chambersburg.....  | Maximum..... | 37    | 44    | 43    | 52    | 51    | 53    | 60    | 47    | 40    | 46    | 56    | 52    | 37    | 33    | 39    | 52    | 57    | 55    | 63    | 61    | 52    | 46    | 61    | 55    | 40    | 51    | 45    | 42    | 40    | 46    | 53    | 48.7  |
|                    | Minimum..... | 13    | 17    | 20    | 27    | 36    | 24    | 32    | 34    | 32    | 27    | 30    | 26    | 19    | 21    | 29    | 22    | 31    | 36    | 39    | 39    | 33    | 39    | 40    | 33    | 29    | 36    | 31    | 31    | 28    | 23    | 29    | 29.2  |
| Chambersville..... | Maximum..... | 27    | 40    | 45    | 50    | 50    | 47    | 52    | 41    | 39    | 44    | 51    | 45    | 35    | 40    | 43    | 50    | 48    | 59    | 61    | 62    | 49    | 67    | 67    | 48    | 45    | 40    | 40    | 35    | 28    | 30    | 43    | 48.8  |
|                    | Minimum..... | 2     | 12    | 21    | 36    | 31    | 25    | 37    | 26    | 30    | 28    | 38    | 18    | 10    | 22    | 20    | 29    | 41    | 26    | 43    | 29    | 27    | 46    | 40    | 24    | 32    | 35    | 31    | 27    | 24    | 18    | 23    | 27.5  |
| Claysville.....    | Maximum..... | 32    | 42    | 47    | 52    | 52    | 53    | 53    | 41    | 40    | 49    | 52    | 46    | 41    | 49    | 47    | 53    | 51    | 51    | 62    | 55    | 54    | 69    | 66    | 49    | 47    | 47    | 44    | 37    | 28    | 34    | 50    | 48.2  |
|                    | Minimum..... | 9     | 20    | 20    | 35    | 28    | 26    | 37    | 26    | 32    | 28    | 43    | 18    | 14    | 24    | 20    | 32    | 45    | 32    | 46    | 29    | 29    | 52    | 43    | 24    | 36    | 35    | 33    | 27    | 23    | 15    | 30    | 29.4  |
| Clearfield.....    | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |       |
|                    | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Coatesville.....   | Maximum..... | 38    | 45    | 46    | 58    | 50    | 51    | 60    | 42    | 36    | 44    | 56    | 53    | 30    | 36    | 40    | 55    | 58    | 52    | 53    | 55    | 46    | 51    | 60    | 52    | 44    | 43    | 37    | 37    | 41    | 40    | 47    | 47.0  |
|                    | Minimum..... | 13    | 17    | 22    | 33    | 32    | 26    | 33    | 29    | 33    | 30    | 33    | 27    | 21    | 23    | 29    | 26    | 34    | 35    | 38    | 40    | 33    | 38    | 48    | 33    | 26    | 35    | 26    | 32    | 30    | 27    | 28    | 30.0  |
| Corry.....         | Maximum..... | 29    | 40    | 45    | 54    | 46    | 48    | 46    | 42    | 40    | 53    | 49    | 40    | 35    | 37    | 40    | 51    | 44    | 48    | 58    | 44    | 46    | 62    | 58    | 49    | 40    | 38    | 38    | 36    | 34    | 35    | 45    | 44.2  |
|                    | Minimum..... | 3     | 20    | 28    | 28    | 29    | 26    | 29    | 29    | 26    | 26    | 34    | 12    | 7     | 18    | 23    | 34    | 34    | 31    | 36    | 29    | 25    | 37    | 32    | 24    | 18    | 35    | 33    | 23    | 21    | 19    | 25    | 25.6  |
| Coudersport.....   | Maximum..... | 27    | 39    | 43    | 47    | 47    | 43    | 48    | 35    | 34    | 38    | 46    | 44    | 30    | 30    | 41    | 51    | 49    | 48    | 59    | 55    | 52    | 56    | 63    | 42    | 40    | 39    | 39    | 36    | 32    | 36    | 37    | 42.8  |
|                    | Minimum..... | -4    | 15    | 15    | 34    | 29    | 21    | 33    | 24    | 28    | 23    | 32    | 17    | 3     | 17    | 23    | 18    | 39    | 28    | 35    | 28    | 23    | 39    | 37    | 20    | 19    | 31    | 30    | 25    | 20    | 25    | 24    | 24.1  |
| Emporium.....      | Maximum..... | 26    | 40    | 46    | 50    | 48    | 45    | 52    | 37    | 36    | 41    | 49    | 45    | 32    | 34    | 42    | 52    | 52    | 45    | 62    | 52    | 53    | 63    | 64    | 44    | 41    | 42    | 40    | 37    | 35    | 38    | 40    | 44.6  |
|                    | Minimum..... | 4     | 11    | 11    | 27    | 28    | 20    | 32    | 30    | 29    | 28    | 32    | 20    | 5     | 24    | 20    | 18    | 39    | 33    | 40    | 28    | 27    | 43    | 42    | 25    | 20    | 34    | 37    | 29    | 25    | 25    | 28    | 26.3  |
| Erie.....          | Maximum..... | 31    | 38    | 45    | 52    | 37    | 51    | 52    | 41    | 41    | 53    | 51    | 26    | 38    | 43    | 46    | 51    | 48    | 47    | 61    | 35    | 51    | 66    | 46    | 40    | 46    | 39    | 41    | 32    | 29    | 35    | 38    | 43.5  |
|                    | Minimum..... | 12    | 30    | 31    | 37    | 31    | 33    | 30    | 29    | 31    | 28    | 26    | 16    | 16    | 26    | 29    | 40    | 35    | 31    | 35    | 31    | 35    | 46    | 36    | 31    | 37    | 34    | 32    | 26    | 22    | 24    | 30    | 30.0  |
| Franklin.....      | Maximum..... | 30    | 41    | 47    | 50    | 43    | 50    | 57    | 40    | 38    | 50    | 50    | 27    | 40    | 43    | 47    | 51    | 52    | 55    | 62    | 43    | 57    | 68    | 43    | 55    | 45    | 40    | 41    | 33    | 29    | 34    | 49    | 45.5  |
|                    | Minimum..... | 4     | 5     | 19    | 19    | 27    | 26    | 21    | 22    | 26    | 27    | 19    | 8     | 9     | 19    | 19    | 22    | 28    | 26    | 31    | 40    | 23    | 22    | 31    | 33    | 21    | 21    | 22    | 22    | 22    | 22    | 22    | 22.5  |
| Freeland.....      | Maximum..... | 29    | 35    | 48    | 55    | 47    | 45    | 48    | 37    | 33    | 42    | 45    | 43    | 25    | 31    | 38    | 51    | 49    | 46    | 49    | 49    | 45    | 44    | 53    | 42    | 37    | 37    | 35    | 30    | 28    | 36    | 42    | 41.1  |
|                    | Minimum..... | 3     | 15    | 29    | 36    | 29    | 27    | 34    | 24    | 26    | 20    | 30    | 17    | 10    | 14    | 24    | 27    | 38    | 26    | 30    | 29    | 30    | 35    | 42    | 27    | 25    | 30    | 26    | 23    | 21    | 18    | 21    | 25.4  |
| Gettysburg.....    | Maximum..... | 41    | 48    | 43    | 56    | 51    | 54    | 60    | 52    | 40    | 45    | 53    | 52    | 33    | 33    | 43    | 56    | 59    | 55    | 61    | 61    | 50    | 47    | 61    | 54    | 43    | 48    | 44    | 41    | 43    | 44    | 51    | 49.1  |
|                    | Minimum..... | 15    | 18    | 22    | 30    | 40    | 38    | 38    | 32    | 27    | 35    | 29    | 21    | 23    | 31    | 23    | 44    | 36    | 40    | 40    | 34    | 41    | 46    | 33    | 30    | 38    | 32    | 32    | 29    | 25    | 29    | 31    | 31.9  |
| Greensburg.....    | Maximum..... | 37    | 43    | 47    | 52    | 52    | 50    | 55    | 41    | 37    | 48    | 53    | 47    | 41    | 47    | 45    | 52    | 57    | 51    | 64    | 57    | 54    | 68    | 65    | 49    | 64    | 39    | 40    | 33    | 25    | 33    | 46    | 47.9  |
|                    | Minimum..... | 8     | 21    | 25    | 41    | 33    | 28    | 39    | 33    | 28    | 45    | 21    | 14    | 25    | 25    | 33    | 42    | 30    | 46    | 32    | 33    | 53    | 45    | 25    | 36    | 36    | 33    | 27    | 24    | 19    | 28    | 30.9  |       |
| Grove City.....    | Maximum..... | 39    | 39    | 45    | 48    | 48    | 47    | 48    | 38    | 37    | 40    | 48    | 45    | 37    | 42    | 45    | 50    | 50    | 48    | 59    | 54    | 48    | 66    | 65    | 50    | 46    | 41    | 39    | 33    | 28    | 30    | 44    | 45.1  |
|                    | Minimum..... | 7     | 22    | 28    | 36    | 30    | 29    | 32    | 27    | 31    | 31    | 39    | 17    | 14    | 26    | 31    | 43    | 30    | 32    | 27    | 34    | 46    | 40    | 21    | 34    | 35    | 32    | 24    | 21    | 19    | 28    | 28.4  |       |
| Hamburg.....       | Maximum..... | 46    | 52    | 46    | 49    | 47    | 50    | 53    | 52    | 43    | 40    | 49    | 43    | 36    | 34    | 40    | 45    | 47    | 49    | 48    | 53    | 58    | 53    | 53    | 40    | 43    | 42    | 38    | 36    | 41    | 47    | 45.8  |       |
|                    | Minimum..... | 11    | 12    | 28    | 28    | 30    | 20    | 29    | 28    | 29    | 30    | 28    | 17    | 24    | 23    | 26    | 29    | 30    | 32    | 29    | 33    | 40    | 36    | 27    | 32    | 34    | 30    | 28    | 23    | 23    | 26    | 27.3  |       |
| Harrisburg.....    | Maximum..... | 29    | 40    | 42    | 48    | 51    | 58    | 41    | 40    | 44    | 54    | 46    | 30    | 34    | 41    | 52    | 54    | 52    | 58    | 54    | 44    | 46    | 59    | 51    | 43    | 47    | 37    | 41    | 40    | 40    | 49    | 45.6  |       |
|                    | Minimum..... | 15    | 22    | 29    | 32    | 35    | 32    | 36    | 32    | 29    | 38    | 26    | 22    | 23    | 31    | 26    | 37    | 39    | 40    | 36    | 40    | 46    | 40    | 38    | 32    | 34    | 32    | 34    | 31    | 28    | 34    | 32.2  |       |
| Hawley.....        | Maximum..... | 35    | 36    | 43    | 53    | 50    | 46    | 51    | 45    | 32    | 45    | 50    | 48    | 24    | 29    | 42    | 54    | 49    | 47    | 52    | 53    | 48    | 45    | 52    | 47    | 39    | 40    | 34    | 33    | 30    | 30    | 37    | 42.6  |
|                    | Minimum..... | 6     | 9     | 17    | 24    | 34    | 15    | 24    | 22    | 15    | 33    | 22    | 9     | 10    | 26    | 17    | 26    | 30    | 26    | 34    | 23    | 28    | 34    | 26    | 14    | 31    | 16    | 28    | 24    |       |       |       |       |







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CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVIII.

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No. 2.

## GENERAL SUMMARY.

The month was moderately warm excepting a four-day period which began with a cold wave on the 8th and extended over the 12th. The temperature excess for the month averaged a little more than three degrees. There have been thirteen warmer Februarys during the last forty-five years. The temperature extremes were not unusual. Two-thirds of the Februarys have recorded lower temperatures than the minimum of  $-15^{\circ}$ , and one-third of them higher temperatures than the maximum of  $68^{\circ}$ . The lowest temperatures for the month were recorded at most places on the 12th, which was the last day of the chief cold period, and the highest temperatures were recorded about the 24th. Precipitation was generally below the normal excepting the Delaware drainage basin where heavy snows occurred on the 11th under the influence of a coast storm. In consequence of this storm, the snowfall for the month was generally in excess of the February normal in the eastern third of the State, while it was generally below the normal elsewhere. The greatest monthly snowfall in the State was 26.0 inches at Gouldsboro, on the Pocono Plateau. In this region the ground was snow-covered nearly the whole month. Elsewhere it was covered from eight to fifteen days. Frosts did not generally penetrate the ground deeply, and there was little heaving of the soil by freezing and thawing. In consequence, the winter grains that became well rooted last autumn made a good showing, while late and short fields deteriorated considerably. The last half of the month was favorable for outdoor work, which made fair progress. Road building work continued in the southeastern counties, and some plowing was done. The wind movement for the month was rather large owing to the cold wave disturbance from the 7th to 10th, immediately followed by the coast storm of the 11th and 12th, and supplemented by a three-day period of strong winds and gales at the close of the month. Despite this large wind movement, there was little wind of a really damaging character. The sunshine for the month was a little more than the February average.

## TEMPERATURE.

The mean temperature for the State, as deduced from the observations taken at 87 stations, was  $31.3^{\circ}$ , which is  $3.2^{\circ}$  in excess of the February normal. The highest monthly mean was  $36.7^{\circ}$ , at Philadelphia (Weather Bureau), and the lowest  $23.3^{\circ}$ ,

at Gouldsboro. Extremes of temperature ranged from a maximum of  $68^{\circ}$  at Hanover and Phoenixville on the 24th, to a minimum of  $-15^{\circ}$  at Muncy Valley on the 12th. The greatest daily range in temperature was  $53^{\circ}$  at Hawley on the 13th.

## PRECIPITATION.

The average precipitation for the State, as shown by reports of 145 well-distributed stations, was 2.30 inches, which is 0.67 inch less than the normal for the month. The greatest monthly amount was 4.31 inches at Snow Hill, while the least amount was 0.73 inch at Wellsboro. The greatest amount for any 24 consecutive hours was 1.90 inches and was reported at Snow Hill on the 10-11th.

Snowfall for the month averaged 9.4 inches, which is 1.8 inches less than the normal for February. The greatest monthly snowfall was 26.0 inches at Gouldsboro, and the greatest 24-hour fall was 12.0 inches at Gouldsboro and Matamoras on the 10-11th.

## COMPARATIVE DATA FOR FEBRUARY

| Year        | Temperature |           |         |        | Precipitation |           |                  |               |                  | No. of days           |       |               |        |
|-------------|-------------|-----------|---------|--------|---------------|-----------|------------------|---------------|------------------|-----------------------|-------|---------------|--------|
|             | Mean        | Departure | Highest | Lowest | Average       | Departure | Greatest monthly | Least monthly | Average Snowfall | of inch or more prec. | Clear | Partly cloudy | Cloudy |
| 1888.....   | 28.4        | +0.3      | 63      | -31    | 2.50          | -0.47     | 4.97             | 0.89          | 7.2              | 5                     | 7     | 11            | 11     |
| 1889.....   | 23.0        | -5.1      | 60      | -27    | 1.96          | -1.01     | 3.87             | 0.97          | 8.7              | 9                     | 7     | 9             | 12     |
| 1890.....   | 37.0        | +8.9      | 79      | 0      | 4.32          | +1.35     | 6.39             | 2.28          | 5.6              | 11                    | 8     | 8             | 14     |
| 1891.....   | 34.8        | +6.7      | 70      | -7     | 4.61          | +1.64     | 8.29             | 2.13          | 5.6              | 12                    | 6     | 8             | 14     |
| 1892.....   | 31.6        | +3.5      | 62      | -18    | 1.75          | -1.22     | 4.48             | 0.43          | 6.3              | 9                     | 7     | 7             | 15     |
| 1893.....   | 27.3        | -0.8      | 60      | -16    | 5.92          | +2.95     | 9.28             | 2.92          | 26.4             | 14                    | 6     | 8             | 14     |
| 1894.....   | 27.6        | -0.5      | 64      | -24    | 3.53          | +0.56     | 5.59             | 1.62          | 22.7             | 11                    | 8     | 9             | 11     |
| 1895.....   | 20.2        | -7.9      | 60      | -26    | 1.22          | -1.75     | 3.47             | 0.17          | 13.2             | 6                     | 10    | 10            | 8      |
| 1896.....   | 29.4        | +1.3      | 65      | -21    | 4.90          | +1.93     | 9.08             | 1.94          | 10.5             | 11                    | 9     | 7             | 13     |
| 1897.....   | 30.6        | +2.5      | 67      | -14    | 3.28          | +0.31     | 6.67             | 1.04          | 10.3             | 9                     | 7     | 8             | 13     |
| 1898.....   | 29.4        | +1.3      | 72      | -16    | 2.23          | -0.74     | 4.05             | 0.96          | 6.1              | 8                     | 8     | 8             | 12     |
| 1899.....   | 22.7        | -5.4      | 67      | -39    | 4.05          | +1.08     | 10.22            | 0.98          | 23.6             | 12                    | 8     | 7             | 13     |
| 1900.....   | 27.1        | -1.0      | 81      | -17    | 4.22          | +1.25     | 7.75             | 1.00          | 7.0              | 11                    | 8     | 6             | 14     |
| 1901.....   | 21.7        | -6.4      | 57      | -22    | 0.96          | -2.01     | 2.75             | 0.27          | 7.9              | 8                     | 10    | 9             | 9      |
| 1902.....   | 23.9        | -4.2      | 64      | -24    | 3.99          | +1.02     | 7.43             | 0.45          | 14.3             | 10                    | 9     | 7             | 12     |
| 1903.....   | 30.5        | +2.4      | 68      | -17    | 4.49          | +1.52     | 6.13             | 1.80          | 10.8             | 10                    | 10    | 7             | 11     |
| 1904.....   | 21.8        | -6.3      | 68      | -27    | 2.41          | -0.56     | 4.80             | 0.92          | 6.8              | 11                    | 10    | 7             | 12     |
| 1905.....   | 20.8        | -7.3      | 59      | -25    | 1.70          | -1.27     | 2.83             | 0.44          | 9.7              | 8                     | 10    | 8             | 10     |
| 1906.....   | 28.0        | -0.1      | 79      | -21    | 1.70          | -1.27     | 3.80             | 0.36          | 6.8              | 7                     | 12    | 7             | 9      |
| 1907.....   | 22.8        | -5.3      | 56      | -20    | 1.91          | -1.06     | 4.37             | 0.66          | 15.2             | 8                     | 12    | 7             | 9      |
| 1908.....   | 24.8        | -3.3      | 64      | -29    | 4.65          | +1.68     | 8.15             | 2.51          | 23.6             | 11                    | 10    | 7             | 12     |
| 1909.....   | 35.8        | +7.7      | 73      | -9     | 4.84          | +1.87     | 9.36             | 2.40          | 4.0              | 14                    | 6     | 7             | 15     |
| 1910.....   | 26.6        | -1.5      | 65      | -22    | 3.59          | +0.62     | 5.39             | 1.41          | 15.0             | 11                    | 9     | 7             | 12     |
| 1911.....   | 31.0        | +2.9      | 66      | -8     | 2.27          | -0.70     | 3.76             | 0.85          | 11.1             | 10                    | 7     | 6             | 15     |
| 1912.....   | 23.7        | -4.4      | 69      | -27    | 2.20          | -0.77     | 4.05             | 0.37          | 6.5              | 8                     | 11    | 8             | 10     |
| 1913.....   | 27.4        | -0.7      | 67      | -9     | 1.84          | -1.13     | 4.61             | 0.88          | 5.7              | 9                     | 12    | 5             | 11     |
| 1914.....   | 21.8        | -6.3      | 65      | -27    | 2.78          | -0.19     | 6.20             | 1.30          | 23.5             | 10                    | 11    | 6             | 11     |
| 1915.....   | 33.3        | +5.2      | 73      | -9     | 3.90          | +0.93     | 6.95             | 1.85          | 2.0              | 9                     | 9     | 5             | 14     |
| 1916.....   | 25.7        | -2.4      | 67      | -22    | 3.08          | +0.11     | 5.86             | 1.30          | 14.3             | 12                    | 8     | 7             | 14     |
| 1917.....   | 25.6        | -2.5      | 68      | -29    | 1.46          | -1.51     | 3.37             | 0.35          | 8.0              | 10                    | 9     | 9             | 10     |
| 1918.....   | 28.2        | +0.1      | 69      | -34    | 2.46          | -0.51     | 4.82             | 0.55          | 2.9              | 9                     | 10    | 8             | 10     |
| 1919.....   | 32.0        | +3.9      | 66      | -7     | 2.23          | -0.74     | 4.27             | 1.03          | 4.7              | 11                    | 12    | 6             | 10     |
| 1920.....   | 25.6        | -2.5      | 62      | -20    | 2.44          | -0.53     | 5.23             | 0.70          | 13.3             | 11                    | 9     | 8             | 12     |
| 1921.....   | 32.8        | +4.7      | 76      | -15    | 2.59          | -0.38     | 4.79             | 1.41          | 15.4             | 10                    | 8     | 8             | 12     |
| 1922.....   | 33.0        | +4.9      | 74      | -19    | 1.99          | -0.98     | 3.61             | 0.67          | 7.7              | 10                    | 9     | 10            | 10     |
| 1923.....   | 24.6        | -3.5      | 53      | -20    | 2.16          | -0.81     | 4.80             | 0.65          | 11.7             | 12                    | 8     | 8             | 12     |
| 1924.....   | 26.9        | -1.2      | 70      | -25    | 2.94          | -0.03     | 5.16             | 1.27          | 16.3             | 10                    | 11    | 7             | 11     |
| 1925.....   | 35.6        | +7.5      | 71      | -11    | 2.16          | -0.81     | 4.61             | 0.55          | 2.1              | 8                     | 11    | 7             | 10     |
| 1926.....   | 28.7        | +0.6      | 65      | -13    | 4.06          | +1.09     | 7.29             | 1.34          | 23.3             | 12                    | 7     | 6             | 15     |
| 1927.....   | 35.0        | +6.9      | 69      | -8     | 3.48          | +0.51     | 5.94             | 1.25          | 16.5             | 13                    | 7     | 8             | 13     |
| 1928.....   | 30.3        | +2.2      | 65      | -11    | 3.42          | +0.45     | 5.39             | 1.62          | 6.7              | 11                    | 10    | 7             | 12     |
| 1929.....   | 28.0        | -0.1      | 69      | -20    | 2.87          | -0.10     | 5.17             | 1.36          | 11.7             | 9                     | 10    | 8             | 10     |
| 1930.....   | 35.1        | +7.0      | 80      | -18    | 2.69          | -0.28     | 4.88             | 0.93          | 3.9              | 11                    | 9     | 6             | 13     |
| 1931.....   | 31.9        | +3.8      | 66      | -16    | 1.98          | -0.99     | 3.61             | 0.87          | 5.2              | 9                     | 11    | 5             | 12     |
| 1932.....   | 35.3        | +7.2      | 83      | -8     | 1.64          | -1.33     | 4.24             | 0.62          | 2.9              | 10                    | 10    | 8             | 11     |
| 1933.....   | 31.3        | +3.2      | 68      | -15    | 2.30          | -0.67     | 4.31             | 0.73          | 9.4              | 10                    | 12    | 7             | 9      |
| Period..... | 28.1        | .....     | 53      | -39    | 2.97          | .....     | 10.22            | 0.17          | 11.2             | 10                    | 9     | 7             | 12     |



## Climatological Data for February, 1933

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers     |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|---------------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |               | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |               |                             |
| Allentown          | Lehigh       | 254             | 21                      | 29.3                         | -1.2                      | 57      | 23   | -3     | 13   | 36                       | 3.16  | +0.04                     | 0.94                 | 9.6                       | 12                           | 16    | 6          | 6                            | sw.           | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 46                      | 30.2                         | +3.0                      | 59      | 24   | -1     | 9†   | 35                       | 1.84  | -0.37                     | 0.40                 | 5.7                       | 11                           | 17    | 7          | 4                            | w.            | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | 1                       | 34.6                         | +1.4                      | 63      | 8†   |        | 13   | 47                       | 3.54  | +0.15                     | 1.26                 | 12.1                      | 9                            |       |            |                              |               | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 11                      |                              |                           | 63      | 24   | -2     | 12   | 45                       | 2.62  | -0.15                     | 1.01                 | 7.8                       | 6                            | 17    | 2          | 9                            | nw.           | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | 1                       | 33.2                         |                           | 61      | 24   | -1     | 12   | 39                       | 1.25  |                           | 0.29                 | 4.5                       | 9                            | 16    | 3          | 9                            | nw.           | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 25                      | 28.8                         | +1.5                      | 57      | 24   | -1     | 12   | 38                       | 1.09  | -1.35                     | 0.23                 | 5.0                       | 13                           | 8     | 11         | 9                            | w.            | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 48                      | 33.7                         | +2.6                      | 57      | 23   | 2      | 13   | 34                       | 3.45  | +0.08                     | 1.13                 | 9.4                       | 13                           | 15    | 2          | 11                           | w.            | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 67                      | 32.2                         | +2.2                      | 64      | 24   | -10    | 12   | 35                       | 1.94  | -1.13                     | 0.54                 | 12.0                      | 8                            | 16    | 3          | 9                            | nw.           | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 37                      | 32.2                         | +2.6                      | 58      | 24   | -1     | 12†  | 35                       | 2.24  | -0.45                     | 0.81                 | 14.2                      | 9                            | 14    | 4          | 10                           |               | W. L. Gearhart.             |
| Center Hall        | Center       | 1,272           | 37                      | 31.1                         | +3.8                      | 62      | 24   | 0      | 10†  | 31                       | 2.28  | -0.18                     | 0.75                 | 10.0                      | 8                            | 19    | 2          | 7                            |               | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 34                      | 33.1                         | +1.7                      | 66      | 24   | -1     | 13   | 31                       | 2.38  | -0.52                     | 0.68                 | 8.3                       | 8                            | 13    | 8          | 7                            | nw.           | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 26                      | 29.8                         | +1.3                      | 62      | 24   | -5     | 12   | 45                       | 1.71  | -1.02                     | 0.60                 | 6.0                       | 8                            | 12    | 6          | 10                           | w.            | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 46                      | 32.8                         | +2.4                      | 62      | 8    | 3      | 13   | 40                       | 3.11  | -0.85                     | 0.85                 | 10.7                      | 11                           | 12    | 3          | 13                           | nw.           | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 22                      | 30.0                         | -0.3                      | 59      | 24   | -2     | 12   | 31                       | 2.72  | -0.34                     | 0.75                 | 10.9                      | 9                            | 14    | 2          | 12                           | sw.           | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 46                      | 28.8                         | +3.2                      | 54      | 24   | -7     | 12   | 42                       | 2.83  | -0.17                     | 0.91                 | 8.5                       | 11                           | 10    | 9          | 9                            | nw.           | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 41                      | 33.6                         | +3.9                      | 62      | 24   | -1     | 13   | 32                       | 2.66  | -0.43                     | 0.83                 | 10.2                      | 10                           | 12    | 4          | 12                           | n.            | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 40                      | 27.6                         | +2.9                      | 51      | 23   | -4     | 10   | 33                       | 3.30  | +0.10                     | 0.91                 | 18.7                      | 11                           | 10    | 6          | 12                           | nw.           | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 27                      | 34.3                         | +3.1                      | 62      | 24   | -6     | 13   | 41                       | 2.90  | -0.19                     | 0.87                 | 16.3                      | 9                            | 10    | 8          | 10                           | nw.           | Prof. N. W. Swayne.         |
| Gettysburg         | Adams        | 553             | 60                      | 34.4                         | +3.3                      | 65      | 24   | 3      | 12   | 28                       | 2.45  | -0.36                     | 0.67                 | 7.7                       | 9                            | 15    | 2          | 11                           | s.            | Dr. Henry Stewart.          |
| Gordon             | Schuylkill   | 840             | 29                      | 30.2                         | +3.2                      | 56      | 23†  | -10    | 12   | 35                       | 2.96  | -0.41                     | 0.87                 | 15.0                      | 8                            | 16    | 5          | 7                            | w.            | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 18                      | 23.3                         |                           | 46      | 23   | -7     | 10†  | 41                       | 2.64  | -0.46                     | 1.10                 | 26.0                      | 8                            | 10    | 8          | 10                           | w.            | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 40                      | 31.5                         | +2.3                      | 56      | 24   | -3     | 13   | 35                       | 3.04  | -0.39                     | 0.84                 | 11.0                      | 9                            | 10    | 13         | 5                            | w.            | State Sanatorium.           |
| Hanover            | York         | 600             | 29                      | 36.0                         | +3.1                      | 68      | 24   | 6      | 12   | 31                       | 2.75  | +0.05                     | 0.84                 | 8.0                       | 12                           | 16    | 2          | 10                           | s.            | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 64                      | 32.8                         | +2.6                      | 62      | 24   | 10     | 12   | 34                       | 2.40  | -0.56                     | 0.84                 | 9.9                       | 12                           | 12    | 4          | 12                           | nw.           | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 15                      | 28.4                         | +2.0                      | 57      | 8    | -11    | 13   | 53                       | 2.24  | -0.30                     | 0.65                 | 14.5                      | 11                           | 13    | 8          | 7                            | w.            | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 18                      | 32.8                         | -0.3                      | 61      | 25   | 8      | 12   | 30                       | 2.49  | -0.19                     | 0.88                 | 11.0                      | 9                            | 12    | 8          | 8                            |               | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 46                      | 32.5                         | +3.3                      | 62      | 24   | -4     | 12   | 44                       | 1.70  | -1.15                     | 0.40                 | 5.8                       | 8                            | 11    | 7          | 10                           | nw.           | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 21                      | 33.8                         | +2.3                      | 65      | 24   | -2     | 12   | 40                       | 1.40  | -1.28                     | 0.41                 | 3.4                       | 11                           | 11    | 5          | 12                           |               | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 46                      | 31.7                         | +0.7                      | 62      | 25   | -3     | 12   | 37                       | 2.53  | -0.18                     | 0.80                 | 11.0                      | 7                            | 16    | 7          | 5                            | nw.           | Supl. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 36                      | 29.0                         | +4.5                      | 54      | 20†  | -5     | 10†  | 36                       | 0.75  | -1.06                     | 0.30                 | 9.5                       | 6                            | 12    | 7          | 9                            |               | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 49                      | 31.1                         | +1.5                      | 61      | 24   | 4      | 12   | 31                       | 2.86  | -0.48                     | 0.84                 | 10.2                      | 10                           | 14    | 7          | 7                            | w.            | Lebanon Valley Gas Co.      |
| Lewisburg          | Union        | 450             | 57                      | 32.4                         | +5.1                      | 61      | 24   | 5      | 10   | 29                       | 2.21  | -0.62                     | 0.60                 | 12.5                      | 9                            | 10    | 8          | 10                           | w.            | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 43                      | 32.3                         | +4.3                      | 60      | 24   | 0      | 12   | 31                       | 1.15  | -1.63                     | 0.28                 | 7.5                       | 12                           | 8     | 13         | 7                            | sw.           | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 18                      | 30.4                         | -0.3                      | 63      | 24   | -8     | 10   | 46                       | 2.11  | -0.65                     | 0.84                 | 10.0                      | 8                            | 12    | 8          | 8                            | nw.           | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 1                       | 36.4                         |                           | 66      | 25   | 3      | 13   | 48                       | 3.77  |                           | 1.58                 | 7.4                       | 9                            | 16    | 6          | 6                            | ne.           | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 44                      | 33.2                         | +5.4                      | 61      | 23   | 9      | 12   | 31                       | 3.14  | -0.60                     | 0.85                 | 14.5                      | 12                           | 14    | 7          | 7                            | s.            | R. K. Wintermute.           |
| Mifflintown        | Juniata      | 445             | 29                      | 33.2                         | +4.4                      | 64      | 24   | -2     | 13   | 37                       | 1.45  | -0.98                     | 0.45                 | 5.8                       | 6                            | 17    | 3          | 8                            | w.            | W. H. Manbeck.              |
| Montrose           | Susquehanna  | 1,720           | 29                      | 26.6                         | +4.4                      | 54      | 22   | -10    | 9    | 45                       | 1.55  | -0.51                     | 0.45                 | 15.0                      | 5                            | 10    | 7          | 11                           | s.            | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,658           | 27                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |               | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 21                      | 27.6                         | +1.2                      | 55      | 23   | -15    | 12   | 43                       | 1.61  | -0.86                     | 0.50                 | 10.0                      | 7                            | 16    | 4          | 8                            | nw.           | H. O. Hacker.               |
| Neshaminy Falls    | Bucks        | 60              | 44                      | 32.0                         | +2.2                      | 65      | 8    | -6     | 13   | 45                       | 2.84  | -0.02                     | 0.86                 | 11.0                      | 8                            | 15    | 5          | 8                            | w.            | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 398             | 15                      | 29.3                         |                           | 57      | 23   | -4     | 13   | 37                       | 3.13  | +0.90                     | 0.83                 | 12.4                      | 13                           | 12    | 3          | 13                           | sw.           | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 62                      | 36.7                         | +2.8                      | 63      | 24   | 14     | 12   | 42                       | 3.19  | -0.13                     | 1.09                 | 11.8                      | 11                           | 10    | 8          | 10                           | nw.           | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 9                       | 36.6                         |                           | 64      | 24   | 13     | 12   | 39                       | 3.15  |                           | 0.91                 | 11.9                      | 11                           | 11    | 10         | 7                            |               | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 17                      | 36.0                         | +2.3                      | 62      | 24   | 14     | 13   | 39                       | 3.20  | -0.16                     | 1.00                 | 10.5                      | 13                           | 8     | 11         | 9                            | w.            | Commandant. Navy Yard.      |
| Phoenixville       | Chester      | 100             | 23                      | 34.8                         | +2.6                      | 68      | 24   | -5     | 13   | 40                       | 2.88  | -0.38                     | 0.90                 | 11.1                      | 8                            | 14    | 10         | 4                            | w.            | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 48                      | 31.4                         | +2.6                      | 59      | 8    | -10    | 13   | 42                       | 3.14  | -0.50                     | 0.94                 | 10.3                      | 12                           | 12    | 7          | 9                            | nw.           | John E. Beumer.             |
| Reading            | Berks        | 514             | 63                      | 33.9                         | +5.1                      | 61      | 8    | 5      | 13   | 46                       | 2.64  | -0.78                     | 0.75                 | 10.0                      | 12                           | 11    | 7          | 10                           | nw.           | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 39                      | 29.8                         | +2.5                      | 56      | 23   | 3      | 10   | 39                       | 1.74  | -1.30                     | 0.50                 | 14.1                      | 11                           | 6     | 12         | 10                           | sw.           | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 43                      | 32.0                         | +3.9                      | 62      | 24   | -6     | 12   | 32                       | 2.52  | -0.38                     | 0.86                 | 12.0                      | 7                            | 12    | 9          | 7                            | nw.           | Dr. George E. Fisher.       |
| Shawmont           | Philadelphia | 51              | 37                      | 34.8                         | +1.0                      | 57      | 23†  | 5      | 13   | 31                       | 3.10  | -0.17                     | 0.96                 | 12.0                      | 8                            | 11    | 9          | nw.                          | W. S. Guiles. |                             |
| State College      | Center       | 1,217           | 49                      | 30.6                         | +4.1                      | 55      | 24   | -1     | 12   | 36                       | 2.36  | -0.38                     | 0.60                 | 9.4                       | 10                           | 10    | 12         | 6                            | w.            | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 19                      | 27.6                         | +0.4                      | 55      | 23   | -7     | 13   | 44                       | 3.67  | +0.68                     | 0.86                 | 10.5                      | 11                           | 9     | 6          | 13                           | sw.           | State Normal School.        |
| Towanda            | Bradford     | 754             | 39                      | 29.2                         | +4.4                      | 56      | 23   | -9     | 10   | 35                       | 1.37  | -0.62                     | 0.35                 | 10.0                      | 10                           | 1     | 14         | 13                           | s.            | Hiram E. Bull, C. E.        |
| Wellsboro          | Tioga        | 1,419           | 63                      | 28.0                         | +3.0                      | 53      | 23   | -4     | 10   | 40                       | 0.73  | -1.55                     | 0.18                 | 4.5                       | 9                            | 18    | 3          | 7                            | w.            | George W. Hill.             |
| West Chester       | Chester      | 455             | 84                      | 34.5                         | +3.4                      | 61      | 8    | 9      | 12   | 33                       | 2.81  | -1.01                     | 0.80                 | 14.0                      | 9                            | 15    | 7          | 6                            | w.            | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 47                      | 31.3                         | +3.6                      | 58      | 24   | -1     | 12   | 29                       | 1.44  | -1.16                     | 0.48                 | 9.3                       | 10                           | 14    | 5          | 9                            | nw.           | Miss Veronica E. April.     |
| York               | York         | 400             | 45                      | 33.4                         | +2.4                      | 61      | 25   | -7     | 12   | 35                       | 2.39  | -0.50                     | 0.70                 | 10.5                      | 9                            | 17    | 3          | 8                            | w.            | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |               |                             |
| Beaver Dam         | Beaver       | 700             | 41                      | 32.1                         | -0.7                      | 59      | 22†  | -2     | 9    | 38                       | 1.53  | -0.87                     | 0.40                 |                           | 13                           | 13    | 7          | 8                            | sw.           | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 14                      | 26.7                         | +0.2                      | 53      | 22   | -5     | 10   | 47                       | 1.96  | -0.67                     | 0.77                 | 11.0                      | 13                           | 11    | 4          | 13                           | sw.           | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 43                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |               | John Fawcett.               |
| Butler             | Butler       | 1,077           | 20                      | 30.8                         |                           | 60      | 23†  | -5     | 11†  | 45                       | 2.08  | -0.34                     | 0.74                 | 11.0                      | 10                           | 19    | 4          | 5                            | w.            | William C. Faust.           |
| Chambersville      | Indiana      | 1,047           | 3                       | 30.3                         | +0.8                      | 58      | 22†  | -8     | 12   | 43                       | 2.42  | -0.60                     | 0.                   |                           |                              |       |            |                              |               |                             |



Daily Precipitation for February, 1933

| Stations           | Drainage Basin | Day of month |     |     |     |     |     |      |      |     |      |      |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    | Total |
|--------------------|----------------|--------------|-----|-----|-----|-----|-----|------|------|-----|------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-------|
|                    |                | 1            | 2   | 3   | 4   | 5   | 6   | 7    | 8    | 9   | 10   | 11   | 12  | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28 | 29 | 30 | 31 |       |
| Atlantic Drainage. |                |              |     |     |     |     |     |      |      |     |      |      |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |       |
| Allentown          | Lehigh         |              | .04 |     | T.  | .15 |     |      | T.   | .94 | .03  |      | .65 | T. |     | .13 | .04 |     |     |     | .84 | .02 | T.  | .01 |     | T.  | .31 | T.  |    |    |    |    | 3.16  |
| Altoona            | Juniata        | .17          |     | .10 | .15 |     |     | .08  | .28  | .22 |      | .22  |     |    | .15 | .01 |     |     |     |     | .25 | T.  |     |     |     | .40 | .03 |     |    |    |    |    | 1.84  |
| Ansonia            | W. Br. Susq.   |              | .09 |     |     | .05 | T.  |      | .08  | .22 | T.   |      | .09 |    |     |     | .04 |     |     |     | .18 | .01 |     |     |     | .10 | T.  | T.  |    |    |    |    | 0.78  |
| Ardmore            | Lower Del.     |              |     | .16 |     |     |     | .86  | .11  |     |      | 1.26 |     |    | T.  | .10 |     | .03 |     |     | .86 |     |     |     |     | .16 | *   |     |    |    |    |    | 3.54  |
| Arendtsville       | Lower Susq.    |              |     | .08 |     |     |     | 1.01 |      |     |      | .71  |     |    |     |     |     |     |     |     | .57 |     |     |     |     | *   | .25 |     |    |    |    |    | 2.62  |
| Baker's Summit     | Juniata        | .08          |     | .10 | .04 |     |     | .08  | .07  |     |      | .25  |     |    | .07 | .03 |     |     |     |     | .38 |     |     |     |     | .38 |     |     |    |    |    |    | 1.48  |
| Bedford            | Juniata        | .11          |     | .04 | .01 |     |     | .05  | .15  |     |      | .22  |     |    | T.  | .10 |     |     |     |     | .28 | T.  |     |     |     | .29 | T.  |     |    |    |    |    | 1.25  |
| Bellefonte         | W. Br. Susq.   | .12          |     | T.  | .07 | .03 | T.  | .18  | .09  |     | .05  | .10  |     |    | .01 | .01 |     |     |     | .05 | .14 | .02 |     |     | .22 | T.  |     | T.  |    |    |    |    | 1.09  |
| Bethlehem          | Lehigh         |              | .05 |     | .02 | .08 |     |      | 1.13 | .03 |      | .66  |     |    | .11 | .12 |     |     |     |     | .98 | .01 |     | .01 |     | .15 | .10 |     |    |    |    |    | 3.45  |
| Blossersville      | Lower Susq.    |              |     | .05 |     | .02 | .08 |      | .20  |     |      | .62  |     |    |     |     |     |     |     |     | .30 | T.  |     |     |     | .05 |     |     |    |    |    |    | 1.22  |
| Buffalo Mills      | Juniata        |              | .18 |     | .05 |     |     |      |      |     |      | .45  |     |    |     | .05 |     |     |     |     | .36 |     |     |     |     |     | .38 |     |    |    |    |    | 1.50  |
| Carlisle           | Lower Susq.    | T.           |     | .15 |     | .08 |     | .05  | .54  |     |      | .44  |     |    | .06 | .05 |     |     |     |     | .41 |     |     |     |     | .24 | T.  |     |    |    |    |    | 1.94  |
| Catawissa          | N. Br. Susq.   | .03          |     | .06 | .14 |     |     | .32  | .24  |     | T.   | .81  |     |    | T.  |     |     |     |     |     | .03 | .39 | T.  |     |     |     | .22 | T.  |    |    |    |    | 2.24  |
| Center Hall        | Susquehanna    | .04          |     | .27 |     |     |     | .04  | .26  |     |      | .52  |     |    |     |     |     |     |     |     | .75 | .08 |     |     |     | .32 |     |     |    |    |    |    | 2.28  |
| Chambersburg       | Potomac        | .04          |     | .05 | .01 |     |     | .17  | .60  |     |      | .68  |     |    | T.  | T.  |     |     | T.  |     | .61 | T.  |     | T.  |     | .22 |     |     |    |    |    |    | 2.38  |
| Clearfield         | W. Br. Susq.   | .20          |     | .02 | .02 |     |     | .30  | T.   |     |      |      |     |    | .10 |     |     | .04 |     |     | .43 | T.  |     |     |     | .60 | T.  |     |    |    |    |    | 1.71  |
| Coatesville        | Lower Del.     | .04          |     | .22 | T.  |     |     | .40  | .42  |     |      | .85  |     |    | .03 | .10 |     | T.  | .01 |     | .83 |     |     | .01 |     | .20 | T.  |     |    |    |    |    | 3.11  |
| Colebrook          | Lower Susq.    | T.           | T.  | .09 | .04 |     |     | .40  | .44  |     |      | .75  |     |    | .05 | .04 |     |     |     |     | .67 | T.  |     |     |     | .24 | T.  |     |    |    |    |    | 2.72  |
| Conshohocken       | Schuylkill     | T.           | .14 | .22 | .01 |     |     | .01  | .52  | .07 |      | 1.13 |     |    | .09 |     |     | .02 |     |     | .94 |     |     |     |     | .12 | .03 |     |    |    |    |    | 3.30  |
| Cresson            | Juniata        | .13          |     | .15 | .06 |     |     | .26  |      |     |      | .18  |     |    | .12 | .08 |     |     |     |     | .27 | .04 |     |     |     | .33 |     |     |    |    |    |    | 1.62  |
| Doylstown          | Lower Del.     | T.           | .06 | .13 | .08 |     |     | .63  | .05  |     |      | .95  |     |    | .01 | .05 |     |     |     |     | .74 | T.  |     |     |     | .20 |     |     |    |    |    |    | 2.90  |
| Emporium           | W. Br. Susq.   | .20          |     | .05 | .20 |     |     | .26  | .14  |     |      | .25  |     |    | .17 |     |     | T.  |     |     | .50 | .05 |     |     |     | .91 | .10 |     |    |    |    |    | 2.83  |
| Ephrata            | Lower Susq.    | T.           |     | .06 | .02 |     |     | T.   | .83  | .09 |      | .70  |     |    | .01 | .06 |     |     |     |     | .66 | T.  |     | .01 |     | .22 | T.  |     |    |    |    |    | 2.66  |
| Forest City        | N. Br. Susq.   |              |     |     |     |     |     | .48  | .25  | .04 |      | .36  |     |    |     |     |     |     |     |     | .33 |     |     |     |     | .05 | .17 | .58 |    |    |    |    | 2.26  |
| Freeland           | Lehigh         |              | .03 | T.  | .32 |     |     | .91  | .44  |     |      | .61  |     |    | .14 |     |     |     |     |     | .51 | .02 | T.  | .01 |     | .25 | .06 |     |    |    |    |    | 3.30  |
| Galeton            | W. Br. Susq.   | .15          |     | .08 |     |     |     | .32  | T.   | T.  |      | .14  |     |    | .05 |     |     |     |     |     | .29 | T.  |     | .01 |     | .30 | .11 |     |    |    |    |    | 1.45  |
| George School      | Lower Del.     |              | .07 | .10 | .08 |     |     | T.   | .63  | .04 |      | .84  |     |    | .10 |     |     |     |     |     | .87 |     |     |     |     | .17 | T.  |     |    |    |    |    | 2.90  |
| Gettysburg         | Potomac        | .02          | .01 | .06 | .01 |     |     | .19  | .65  |     |      | .67  |     |    | T.  | T.  |     |     | T.  |     | .61 |     |     |     |     | .23 | T.  |     |    |    |    |    | 2.45  |
| Girardville        | Lower Susq.    | .02          |     | .34 |     |     |     | .70  | .07  | .22 | .78  | .03  |     |    | .01 | .09 |     |     |     |     | .50 | .01 |     |     |     | .66 | .02 |     |    |    |    |    | 3.45  |
| Gordon             | Lower Susq.    | .01          |     | .10 | .40 |     |     | .87  |      |     | .72  |      |     |    | T.  | .07 |     |     |     |     | .58 |     |     | T.  |     | .21 | T.  |     |    |    |    |    | 2.96  |
| Gouldsboro         | Lehigh         |              |     | .09 | .18 |     |     | .25  | .45  |     |      | 1.10 |     |    |     |     |     |     |     |     | .30 |     |     |     |     | .18 | .09 |     |    |    |    |    | 2.64  |
| Graterford         | Schuylkill     | .03          | .12 | .02 | .06 |     |     | .01  | .74  | .03 |      | 1.00 |     |    | .02 | .17 |     |     |     |     | .88 |     |     | T.  |     | .14 | .01 |     |    |    |    |    | 3.23  |
| Hamburg            | Schuylkill     |              |     | .20 |     |     |     | .56  |      |     |      | .70  |     |    | .12 | .22 |     |     |     |     | .84 | .05 |     |     |     | .21 | .14 |     |    |    |    |    | 3.04  |
| Hanover            | Lower Susq.    | .04          | T.  | .10 | .02 |     |     | .07  | .84  | .10 |      | .65  |     |    | T.  | .02 |     |     | .02 |     | .66 | T.  |     |     | .01 | .22 | T.  |     |    |    |    |    | 2.75  |
| Harrisburg         | Lower Susq.    | .01          |     | .10 | T.  |     |     | .48  | .19  |     | .22  | .62  |     |    | T.  | .02 | .03 |     | T.  |     | .44 | .02 | T.  |     | .23 | T.  |     |     |    |    |    |    | 2.40  |
| Hawley             | Upper Del.     |              |     | T.  | .09 | T.  |     | .40  | .25  | .01 | .65  | .01  |     |    | .05 |     |     |     |     |     | .39 | .02 | .01 |     | T.  | .36 |     |     |    |    |    |    | 2.24  |
| Hollisterville     | Upper Del.     |              |     | .13 | .03 |     |     | .50  | .45  |     | .62  |      |     |    | .10 |     |     |     |     |     | .47 |     | .12 |     |     | .21 | .06 |     |    |    |    |    | 2.69  |
| Holtwood           | Lower Susq.    |              | .02 |     | .15 |     |     | .65  | .04  |     | .88  |      |     |    | T.  | .05 |     |     | T.  |     | .57 |     |     | .03 |     | .10 |     |     |    |    |    |    | 2.49  |
| Huntingdon         | Juniata        | .14          | T.  | .10 |     |     |     | .21  | .10  |     | .39  |      |     |    | .05 |     |     |     |     |     | .40 | T.  |     |     |     | .31 | T.  |     |    |    |    |    | 1.70  |
| Hyndman            | Potomac        | .10          |     | .06 | .02 |     |     | .11  | .02  | .12 |      | .10  |     |    | .03 |     |     |     |     |     | .41 |     |     | T.  |     | .40 | .03 |     |    |    |    |    | 1.40  |
| Kyletown           | W. Br. Susq.   | .25          |     | .11 | .09 |     |     | .08  | .38  |     |      | .10  |     |    |     |     |     |     |     |     | .31 | .02 |     |     |     | .37 | .07 |     |    |    |    |    | 1.78  |
| Lakeville          | Upper Del.     |              | .05 |     | .15 | .02 |     | .43  | .33  |     |      | .65  |     |    | .05 |     |     |     |     |     | .45 | .03 |     |     |     | .37 |     |     |    |    |    |    | 2.53  |
| Lancaster          | Lower Susq.    |              |     | .20 |     |     | .52 | .10  |      |     | .80  |      |     |    | .08 |     |     |     |     |     | .58 |     |     |     |     | .25 |     |     |    |    |    |    | 2.53  |
| Lansford           | Lehigh         |              | .07 |     | *   | .25 |     | 1.11 | .17  |     | .65  |      |     |    | .05 | T.  |     |     |     |     | .54 | T.  | T.  | T.  |     | .30 | .10 |     |    |    |    |    | 3.07  |
| Lawrenceville      | N. Br. Susq.   | T.           |     | .10 |     |     |     | T.   | .10  | .10 |      | .05  |     |    |     |     |     |     |     |     | T.  | T.  |     |     |     | .24 | T.  |     |    |    |    |    | 0.75  |
| Lebanon            | Lower Susq.    | .01          |     | .11 |     |     |     | .84  | .09  |     | .70  |      |     |    | .15 | .02 |     |     | T.  |     | .69 | T.  | .01 |     |     | .19 |     |     |    |    |    |    | 2.86  |
| Lewisburg          | W. Br. Susq.   | .05          |     | T.  | .15 |     |     | .08  | .30  | .30 |      | .60  |     |    |     |     |     | .02 |     |     | .52 |     |     |     |     | .19 |     |     |    |    |    |    | 2.21  |
| Lloyd              | do.            |              |     |     |     |     |     |      |      |     |      |      |     |    |     |     |     |     |     |     | .18 | .03 |     |     |     | .12 | .04 |     |    |    |    |    | 1.15  |
| Lock Haven         | W. Br. Susq.   | .05          |     | .05 | .12 |     |     | .02  | .20  | .04 |      | .28  |     |    |     | .02 |     |     |     |     | .39 | T.  |     |     |     | .19 |     |     |    |    |    |    | 2.11  |
| Lykens             | Susquehanna    |              | T.  | .02 | .04 |     |     | T.   | .84  | .05 |      | .49  |     |    | T.  | .07 |     |     | .02 |     | .98 |     |     |     |     | .16 |     |     |    |    |    |    | 3.77  |
| Marcus Hook        | Lower Del.     | .10          |     | .04 |     |     |     | .80  | .02  |     | 1.58 |      |     |    |     |     |     |     |     | .02 |     | .79 |     |     |     | .46 |     |     |    |    |    |    | 3.06  |
| Matamoras          | Upper Del.     |              |     | .16 |     |     |     | .69  | .16  |     | .60  |      |     |    | .02 | .20 |     |     |     |     | .69 |     |     |     | .06 | .03 | .29 |     |    |    |    |    | 3.14  |
| Mauch Chunk        | Lehigh         |              | .03 |     | .07 | .09 |     | .35  | .85  |     | .60  |      |     |    | .02 | .06 |     |     |     |     | .69 |     |     |     |     | .11 |     |     |    |    |    |    | 1.45  |
| Mifflintown        | Juniata        |              |     | .02 | .04 |     |     | T.   | .41  |     | .42  |      |     |    | T.  | .01 |     |     |     |     | .45 |     |     |     |     | .11 |     |     |    |    |    |    | 1.55  |
| Montrose           | N. Br. Susq.   |              |     | T.  |     |     |     | .40  |      |     | .45  |      | </  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |       |



## Daily Precipitation for February, 1933—Continued from page 8

| Stations        | Drainage Basin | Day of month |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |    |    |    |    | Total  |
|-----------------|----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|----|----|----|--------|
|                 |                | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13  | 14  | 15  | 16  | 17 | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25   | 26  | 27  | 28 | 29 | 30 | 31 |        |
| Ohio Drainage   |                |              |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |    |    |    |    |        |
| Beaver Dam\|\|\| | Ohio           |              | .11 |     |     | .09 |     | .03 | .40 | .04 |     | .05 |    |     |     | .03 |     |    | .01 |     | .24 |     |     | .03 |     | .28  | .20 | .02 |    |    |    |    | 1.53   |
| Beaver Falls\|\|\| | Beaver         |              |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |    |    |    |    | 1.96   |
| Bradford        | Allegheny      | .11          |     |     | .07 | .03 |     | .24 | .16 | .02 |     | .08 |    |     | .02 | .09 |     |    |     |     | .32 | .02 |     |     |     | .77  | .03 |     |    |    |    |    |        |
| Brookville      | do             |              |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |    |    |    |    | 2.08   |
| Butler          | Ohio           | .10          |     | .25 | .16 |     | .10 | .21 |     | .15 |     |     |    |     | .02 | .19 |     |    |     | T   | .32 | .03 |     |     |     | .74  |     |     |    |    |    |    | 2.42   |
| Chambersville   | Allegheny      | .20          |     | .13 | .16 | .02 | .10 | .23 | .02 |     | .26 |     |    |     | .06 | .19 |     |    |     |     | .41 | T   |     |     |     | .59  | .05 |     |    |    |    |    | 1.84   |
| Clairton        | Monongahela    | .09          |     | .20 | T   |     | .17 | .06 |     | .20 |     |     |    |     | .40 | .05 |     |    |     | .03 | .30 | .02 |     |     | T   | .30  | .02 |     |    |    |    |    | 1.84   |
| Claysville      | Ohio           | .15          |     | .13 | .20 |     | .13 | .26 |     |     | .01 |     |    |     | .26 | .25 |     |    |     |     | .25 |     |     |     |     | .13  | .02 |     |    |    |    |    |        |
| Clymer\|\| | Conemaugh      | .31          |     | *   | .40 |     |     |     |     |     | .08 |     |    | T   | T   | .42 |     |    |     |     | .70 |     |     |     |     | .45  |     |     |    |    |    |    | 2.36   |
| Confluence\|\|\| | Youghiogheny   |              | .08 |     | .13 | T   |     | .20 | .12 |     | .15 | T   |    |     | .05 | .33 | T   |    |     |     | .48 | T   |     |     |     | T    | .60 | .05 |    |    |    |    | 2.19   |
| Corry           | Allegheny      | .21          | T   | T   |     | .12 | .11 | .32 | .04 | T   | .02 |     |    |     | .08 |     |     |    |     |     | .41 | .03 |     |     |     | .72  | .19 |     |    |    |    |    | 2.25   |
| Coudersport     | Allegheny      | .20          |     | .12 |     |     | .40 | .04 |     |     | .10 |     |    |     | .03 | .04 |     |    |     |     | .35 | .04 | .01 |     |     | .23  | .23 | .03 |    |    |    |    | 1.82   |
| Derry           | Conemaugh      | .10          |     | .15 | .05 |     | .11 | .21 | .05 |     | .17 |     |    |     | .33 | .41 |     |    |     | T   |     |     |     | T   |     | .45  | .75 |     |    |    |    |    | 3.13   |
| Donora\|\|\| | Monongahela    | .05          | .06 |     | T   | .08 |     | T   | .15 | T   |     | .18 |    |     | .23 | .17 |     |    |     |     | .26 | T   |     | .02 |     | .34  | .01 |     |    |    |    |    | 1.55   |
| Ebensburg       | Conemaugh      | .18          | T   |     | .08 | .15 |     | .12 | .02 |     | .30 |     |    |     | .25 | .38 |     |    |     | T   | .40 | T   |     |     |     | .66  | T   |     |    |    |    |    | 2.54   |
| Elk Lick        | Youghiogheny   |              |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |    |    |    |    |        |
| Franklin\|\|\| | Allegheny      |              | .13 |     |     | .12 | .07 | .05 | .50 | .14 |     | .05 |    |     |     | .09 |     |    |     |     | .42 | .07 |     |     |     | .52  | .33 |     |    |    |    |    | 2.49   |
| Freeport\|\|\| | do             |              | .23 |     | .19 | T   | .04 | .28 | .18 |     | .25 | T   |    |     | .02 | .30 |     |    |     |     | .35 | .03 |     |     | .05 | .37  | .34 | T   |    |    |    |    | 2.63   |
| Greensboro      | Monongahela    |              | .07 |     | .10 | T   |     | .43 | .05 |     | .15 | T   |    |     | .09 | .38 |     |    |     | T   | .32 | .02 |     | T   |     | .01  | .40 | T   |    |    |    |    | 2.02   |
| Greensburg      | Youghiogheny   | .15          |     | T   | .12 | .08 |     | .10 | .11 |     | .25 |     |    |     | .36 | .29 |     |    |     | T   | .25 | .02 |     | T   |     | .49  | .03 |     |    |    |    |    | 2.25   |
| Greenville      | Beaver         | .12          |     |     | .15 | .03 | .35 | .06 |     |     | .03 |     |    |     | T   | .07 |     |    |     |     | .40 | .05 |     |     |     | .78  | .04 |     |    |    |    |    | 2.11   |
| Grove City      | do             | .13          | T   | T   | .01 | .17 | T   | .31 | .27 | .01 | .04 |     |    |     | T   | .07 |     |    |     |     | .50 |     |     |     |     | .65  | .01 |     |    |    |    |    | 2.17   |
| Herr's Isl. Dam\|\|\| | Ohio           |              | .13 |     | .23 |     | .07 | .18 | .05 |     | .14 | .02 |    |     | .09 | .37 |     |    |     |     | .34 | .02 |     | T   |     | .19  | .33 | T   |    |    |    |    | 2.16   |
| Ingram          | do             | .14          |     | T   | .16 | .06 |     | .16 | .16 |     | .11 |     |    |     | .11 | .11 |     |    |     | T   | .33 | .02 |     | T   |     | .47  | .04 |     |    |    |    |    | 1.87   |
| Irwin           | Monongahela    | .21          |     | .18 | .06 |     | .16 | .05 | T   |     | .16 |     |    |     | .42 | .10 |     |    |     |     | .35 | .01 |     |     |     | .41  | .01 |     |    |    |    |    | 2.12   |
| Johnstown       | Conemaugh      | .16          |     | T   | .12 | .12 | .19 | .29 |     | .15 |     |     |    |     | .08 | .23 |     |    |     | T   |     |     |     |     |     | 1.13 | .27 |     |    |    |    |    | 3.36   |
| Kane (near) \|\| | Allegheny      | .34          |     | T   | T   | .25 | T   | .09 | .24 |     | .20 |     |    |     | .11 |     |     |    |     | .02 | .70 | .10 |     |     |     | 1.00 | .15 |     |    |    |    |    | 3.20   |
| Kregar\|\|\| | Youghiogheny   | .09          |     | .18 |     |     | .24 | .12 |     | .15 | T   |     |    | .21 | .53 |     |     |    |     |     | .27 | .03 | T   | T   |     | .03  | .44 | .05 |    |    |    |    | 2.34   |
| Lake Lynn\|\|\| | Monongahela    |              | .02 |     | .02 | .02 | .12 | .03 |     | .16 | T   |     |    |     | .12 | .48 |     |    |     | .02 | .26 | T   |     | .02 |     | .32  |     |     |    |    |    |    | 1.64   |
| Linesville\|\|\| | Beaver         | .13          |     | .18 | .16 | .02 | .41 | .12 |     | .01 | T   |     |    |     | .08 |     |     |    |     |     | .46 | T   |     |     |     | .49  | .28 |     |    |    |    |    | 2.29   |
| Lock No. 2\|\|\| | Ohio           | .14          |     | .15 |     | .02 | .24 | .02 |     | .09 |     |     |    |     | .12 |     |     |    |     |     | .34 | T   |     |     |     | .22  | .18 |     |    |    |    |    | 1.52   |
| Lock No. 4\|\|\| | Monongahela    | .15          |     | .13 |     | .01 | .16 | .04 |     | .20 | T   |     |    |     | .21 | .26 |     |    |     | T   | .28 | .01 |     | .01 |     | .04  | .34 |     |    |    |    |    | 1.84   |
| Lycippus        | Conemaugh      | .14          |     | .19 | .07 |     | .10 | .01 |     |     |     |     |    |     | .43 | .57 |     |    |     |     | .33 |     |     |     |     | .37  | .05 |     |    |    |    |    | 2.26   |
| McKeesport\|\|\| | Monongahela    | .11          |     | .13 |     | .06 | .16 | T   |     | .20 | T   |     |    |     | .04 | .10 |     |    |     |     | .05 | T   |     |     |     | .25  | T   |     |    |    |    |    | 1.19   |
| Meadville       | Allegheny      | .10          |     | T   | T   | .21 | .19 | .23 | .33 | .03 | .03 |     |    |     | .01 | .07 |     |    |     |     | .38 | .07 |     |     |     | .76  | T   |     |    |    |    |    | 2.41   |
| Mosgrove        | do             | .25          |     |     | .15 | .01 | .06 | .36 | .04 |     | .25 | T   |    |     | .02 | .09 |     |    |     | T   | .36 | .09 |     |     |     | .40  | .45 | T   |    |    |    |    | 2.53   |
| Mount Lebanon   | Ohio           | .14          |     | .11 | .13 |     | .17 | .17 |     | .12 |     |     |    |     | .13 | .15 |     |    |     |     | .29 | T   |     |     |     | .34  | .01 |     |    |    |    |    | 1.76   |
| Natrona\|\| | Allegheny      | .25          |     | .18 |     | .05 | .23 | .07 |     | .27 | .02 |     |    |     | .07 | .17 |     |    |     |     | .40 | .02 |     | .02 |     | .30  | .40 | .02 |    |    |    |    | 2.47   |
| New Castle\|\|\| | Beaver         | T            |     | T   | T   | .05 | .01 | .02 | .40 | .07 | T   | .06 |    |     | T   | .01 |     |    | .01 |     | .01 |     |     |     | .41 | .15  |     |     |    |    |    |    | 1.20   |
| Newell          | Monongahela    | .15          |     | .15 |     |     | .04 | .20 |     |     | .14 |     |    |     | .16 |     |     |    |     |     | .26 |     |     |     |     | .34  |     |     |    |    |    |    | 1.44   |
| Parkers Landing\|\| | Allegheny      | .33          |     | T   | .20 | .05 | .05 | .45 | .10 |     | .10 | T   |    |     | T   | T   |     |    |     | T   | .39 | .10 | T   | T   |     | .48  | .35 | T   |    |    |    |    | 2.60   |
| Pennline\|\|\|\|\| | Beaver         | .13          |     | .12 | .10 |     | .46 | .03 |     | .01 | T   |     |    |     | T   | .07 |     |    |     | *   | .40 | .01 | T   |     |     | .82  | .02 |     |    |    |    |    | 2.27   |
| Pittsburgh***   | Ohio           | .10          |     | T   | .23 | .01 | .19 | .10 | T   |     | .15 |     |    |     | T   | .10 | .10 |    |     | T   | .26 | .01 |     |     |     | .41  | .01 |     |    |    |    |    | 1.67   |
| Punxsutawney\|\|\| | Allegheny      | .24          |     | .19 | .12 |     | .41 |     |     | .30 | T   |     |    |     | T   | .04 |     |    |     |     | T   | T   | T   |     |     | .97  | .37 | T   |    |    |    |    | 2.60   |
| Ridgway         | do             | .10          |     | .05 | .05 | T   | T   | .20 | .05 |     | .12 |     |    |     | T   | .04 |     |    |     |     | .31 | .01 |     |     |     | .36  |     | .43 |    |    |    |    | 1.72   |
| Saltsburg\|\|\| | Conemaugh      | .14          |     | .30 |     | .02 | .24 | .10 |     | .26 | .02 |     |    |     | .10 | .24 |     |    |     | T   | .31 | .03 |     |     |     | .12  | .25 | T   |    |    |    |    | 2.13   |
| Sharon\|\|\| | Beaver         | .01          |     | .03 | .02 | .03 | .35 | .03 |     | .02 | T   |     |    |     | .05 |     |     |    |     |     | .38 | .01 |     |     |     | .37  | .20 |     |    |    |    |    | 1.50   |
| Smethport       | Allegheny      | .25          | T   | T   | .18 | T   |     | .34 | .08 |     | .04 | T   |    |     |     |     |     |    |     |     | .45 | .04 | T   |     |     | .48  | .24 | .02 |    |    |    |    | 2.12   |
| Somerset        | Youghiogheny   | .09          |     | .02 | .06 |     | .14 | .12 |     | .10 |     |     |    |     | .11 | .08 |     |    |     | T   | .38 | T   |     |     |     | .66  | .03 |     |    |    |    |    | 1.79   |
| Springdale\|\|\| | Allegheny      | .16          |     | .15 |     | .06 | .25 | .05 |     | .21 | T   |     |    |     | .10 | .18 |     |    |     |     | .41 | .03 |     |     | .01 | .25  | .31 | .01 |    |    |    |    | 2.18   |
| Uniontown       | Monongahela    | .06          |     | .06 | .07 |     | .07 | .25 |     | .17 |     |     |    |     | T   | .20 | .40 |    |     |     | .28 | T   |     |     |     | .39  | .08 |     |    |    |    |    | 2.03   |
| Unity Reservoir\|\| | Youghiogheny   | .19          |     | .20 | .08 |     | .06 | .18 | T   |     | .25 |     |    |     | .34 | .33 |     |    |     |     | .29 | T   |     | T   |     | T    | .05 |     |    |    |    |    | 1.97   |
| Vandergrift     | Conemaugh      | .28          |     |     |     |     | .37 | .06 |     | .19 |     |     |    |     | .06 | .04 |     |    |     |     | .20 |     |     |     |     | \$   |     |     |    |    |    |    | \$1.20 |
| Warren          | Allegheny      | .20          | .02 | .10 | .16 | T   | .04 | .36 | .20 |     | .02 |     |    |     | .04 | .05 | .03 |    |     |     | .10 | .10 |     |     |     | .88  | .46 |     |    |    |    |    | 2.76   |
| Waynesburg      | Monongahela    | .22          |     | T   |     | .26 | .16 |     |     | .10 |     |     |    |     | .34 |     |     |    |     |     | .52 |     |     |     |     | .28  | T   |     |    |    |    |    | 1.88   |
| Westford\|\|\| | Beaver         | .12          |     | .03 | .44 | .12 | .50 |     |     | .04 | .03 | .02 |    |     | .02 |     |     |    |     | .47 | .02 |     |     |     | .60 | .10  |     |     |    |    |    |    | 2.51   |
| West Newton\|\|\| | Youghiogheny   |              | .11 |     | .12 |     | T   | .12 | .06 |     | .18 | T   |    |     | .27 | .18 |     |    |     |     | .24 |     |     | .02 |     | .04  | .30 | .02 |    |    |    |    | 1.66   |
| Lake Drainage   |                |              |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |    |    |    |    |        |
| Erie***         | Lake Erie      | .03          | T   | T   | .05 | .04 | .04 | .24 | .14 | .02 |     | .04 | T  | T   | .02 | .02 |     |    |     |     | .17 | .01 |     |     |     | .49  | T   |     |    |    |    |    | 1.31   |

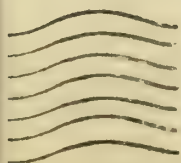
Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.



## Daily Temperatures for February, 1933

| Stations           | 1          | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |
|--------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Allentown.....     | Maximum..  | 42    | 55    | 40    | 31    | 24    | 28    | 49    | 53    | 28    | 20    | 33    | 22    | 28    | 35    | 38    | 35    | 38    | 48    | 41    | 44    | 41    | 44    | 57    | 56    | 37    | 34    | 37    | 41    | ..... | ..... | 38.5  |
|                    | Minimum... | 24    | 26    | 31    | 24    | 21    | 10    | 13    | 28    | 10    | 6     | 7     | 3     | -3    | 0     | 26    | 15    | 18    | 26    | 25    | 28    | 33    | 22    | 24    | 35    | 34    | 32    | 23    | 22    | ..... | ..... | 20.1  |
| Altoona.....       | Maximum..  | 40    | 50    | 35    | 29    | 27    | 31    | 35    | 49    | 15    | 25    | 25    | 25    | 42    | 43    | 45    | 43    | 46    | 47    | 43    | 43    | 50    | 53    | 59    | 50    | 45    | 39    | 46    | ..... | ..... | 40.1  |       |
|                    | Minimum... | 27    | 35    | 23    | 15    | 8     | 4     | 20    | 15    | -1    | 1     | 16    | -1    | 7     | 33    | 26    | 17    | 27    | 30    | 21    | 36    | 28    | 15    | 38    | 36    | 33    | 23    | 18    | 22    | ..... | ..... | 20.4  |
| Bedford.....       | Maximum..  | 44    | 52    | 45    | 32    | 31    | 39    | 49    | 52    | 21    | 25    | 27    | 31    | 43    | 44    | 45    | 41    | 50    | 49    | 47    | 50    | 47    | 53    | 55    | 61    | 58    | 48    | 40    | 46    | ..... | ..... | 43.8  |
|                    | Minimum... | 25    | 38    | 26    | 19    | 11    | 8     | 25    | 20    | 2     | 7     | 17    | -1    | 4     | 34    | 28    | 12    | 30    | 36    | 19    | 39    | 32    | 18    | 41    | 33    | 35    | 26    | 21    | 25    | ..... | ..... | 22.5  |
| Bellefonte.....    | Maximum..  | 43    | 46    | 32    | 28    | 24    | 28    | 46    | 43    | 9     | 21    | 25    | 23    | 42    | 45    | 37    | 41    | 46    | 47    | 42    | 49    | 37    | 48    | 52    | 57    | 41    | 34    | 37    | 46    | ..... | ..... | 38.2  |
|                    | Minimum... | 23    | 32    | 25    | 18    | 11    | 5     | 23    | 8     | 4     | 2     | 10    | -1    | 4     | 26    | 21    | 17    | 27    | 27    | 21    | 34    | 21    | 16    | 38    | 32    | 32    | 23    | 19    | 23    | ..... | ..... | 19.4  |
| Brookville.....    | Maximum..  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
|                    | Minimum... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Butler.....        | Maximum..  | 44    | 49    | 47    | 37    | 26    | 29    | 50    | 45    | 18    | 24    | 22    | 40    | 40    | 44    | 43    | 39    | 45    | 44    | 50    | 48    | 47    | 57    | 60    | 60    | 52    | 40    | 38    | 45    | ..... | ..... | 42.2  |
|                    | Minimum... | 27    | 35    | 34    | 25    | 7     | 6     | 25    | 18    | -3    | -1    | -5    | -5    | 5     | 36    | 22    | 16    | 32    | 25    | 13    | 27    | 25    | 16    | 41    | 29    | 30    | 25    | 20    | 21    | ..... | ..... | 19.5  |
| Carlisle.....      | Maximum..  | 46    | 57    | 47    | 36    | 36    | 33    | 40    | 52    | 26    | 31    | 24    | 27    | 37    | 38    | 41    | 43    | 52    | 50    | 54    | 50    | 49    | 52    | 64    | 55    | 43    | 43    | 53    | ..... | ..... | 43.0  |       |
|                    | Minimum... | 24    | 34    | 29    | 20    | 17    | 12    | 28    | 25    | 10    | 4     | 14    | -10   | -8    | 22    | 32    | 16    | 19    | 30    | 20    | 35    | 35    | 18    | 30    | 33    | 34    | 29    | 23    | 28    | ..... | ..... | 21.5  |
| Catawissa.....     | Maximum..  | 45    | 52    | 41    | 32    | 28    | 30    | 46    | 48    | 41    | 29    | 35    | 29    | 34    | 44    | 44    | 39    | 45    | 50    | 44    | 51    | 47    | 48    | 55    | 58    | 48    | 41    | 38    | 46    | ..... | ..... | 42.4  |
|                    | Minimum... | 25    | 32    | 25    | 20    | 17    | 8     | 28    | 30    | 6     | 4     | 18    | -1    | -1    | 21    | 24    | 14    | 26    | 30    | 24    | 36    | 31    | 17    | 40    | 32    | 32    | 25    | 24    | 25    | ..... | ..... | 21.9  |
| Chambersburg.....  | Maximum..  | 43    | 58    | 47    | 32    | 27    | 34    | 37    | 55    | 26    | 25    | 35    | 25    | 30    | 38    | 39    | 41    | 43    | 53    | 49    | 55    | 45    | 51    | 60    | 66    | 53    | 42    | 43    | 52    | ..... | ..... | 43.0  |
|                    | Minimum... | 26    | 28    | 29    | 23    | 16    | 11    | 26    | 26    | 9     | 10    | 16    | 1     | -1    | 23    | 30    | 18    | 22    | 32    | 24    | 37    | 30    | 21    | 39    | 38    | 38    | 28    | 22    | 27    | ..... | ..... | 23.2  |
| Chambersville..... | Maximum..  | 48    | 50    | 36    | 29    | 29    | 29    | 42    | 51    | 13    | 21    | 25    | 23    | 42    | 43    | 42    | 39    | 44    | 44    | 46    | 48    | 47    | 58    | 57    | 58    | 55    | 44    | 37    | 46    | ..... | ..... | 40.9  |
|                    | Minimum... | 27    | 33    | 25    | 13    | 5     | 1     | 26    | 13    | -3    | -3    | 18    | -8    | 16    | 37    | 22    | 13    | 30    | 27    | 20    | 37    | 24    | 15    | 40    | 29    | 35    | 23    | 17    | 20    | ..... | ..... | 19.7  |
| Claysville.....    | Maximum..  | 53    | 61    | 43    | 32    | 30    | 36    | 47    | 51    | 17    | 22    | 28    | 29    | 47    | 45    | 44    | 46    | 47    | 46    | 61    | 54    | 45    | 61    | 59    | 62    | 57    | 46    | 44    | 50    | ..... | ..... | 44.8  |
|                    | Minimum... | 30    | 33    | 19    | 19    | 5     | 2     | 31    | 17    | -5    | 2     | 18    | -4    | 19    | 38    | 24    | 17    | 30    | 28    | 22    | 37    | 30    | 20    | 42    | 37    | 43    | 27    | 19    | 17    | ..... | ..... | 22.0  |
| Clearfield.....    | Maximum..  | 48    | 42    | 39    | 39    | 29    | 34    | 39    | 46    | 14    | 14    | 24    | 30    | 48    | 44    | 45    | 46    | 46    | 49    | 45    | 46    | 42    | 58    | 53    | 62    | 58    | 36    | 42    | 52    | ..... | ..... | 41.8  |
|                    | Minimum... | 20    | 24    | 21    | 24    | 19    | 16    | 16    | 14    | 0     | 0     | 4     | -5    | 3     | 34    | 16    | 20    | 24    | 14    | 21    | 16    | 24    | 14    | 35    | 31    | 28    | 22    | 18    | 23    | ..... | ..... | 17.9  |
| Coatesville.....   | Maximum..  | 43    | 57    | 42    | 32    | 28    | 29    | 43    | 62    | 24    | 25    | 33    | 23    | 35    | 44    | 39    | 36    | 44    | 51    | 46    | 50    | 46    | 46    | 59    | 61    | 58    | 39    | 47    | ..... | ..... | 42.0  |       |
|                    | Minimum... | 26    | 37    | 30    | 22    | 18    | 12    | 24    | 22    | 11    | 10    | 19    | 6     | 3     | 26    | 28    | 15    | 22    | 33    | 26    | 35    | 31    | 23    | 31    | 34    | 34    | 29    | 25    | 27    | ..... | ..... | 23.5  |
| Corry.....         | Maximum..  | 45    | 45    | 29    | 31    | 30    | 31    | 38    | 42    | 6     | 17    | 21    | 29    | 46    | 44    | 42    | 42    | 42    | 47    | 43    | 37    | 60    | 53    | 50    | 47    | 35    | 30    | 41    | ..... | ..... | 38.5  |       |
|                    | Minimum... | 27    | 29    | 22    | 22    | 1     | 8     | 23    | 6     | -7    | -7    | 10    | 0     | 16    | 35    | 18    | 17    | 30    | 22    | 18    | 30    | 19    | 12    | 35    | 32    | 34    | 15    | 17    | 18    | ..... | ..... | 17.9  |
| Coudersport.....   | Maximum..  | 44    | 47    | 32    | 29    | 27    | 26    | 36    | 45    | 18    | 16    | 25    | 20    | 40    | 41    | 40    | 37    | 45    | 42    | 43    | 46    | 44    | 50    | 48    | 48    | 46    | 34    | 31    | 39    | ..... | ..... | 37.1  |
|                    | Minimum... | 20    | 30    | 24    | 19    | 7     | 2     | 18    | 16    | -2    | -6    | 11    | -7    | 4     | 28    | 21    | 11    | 25    | 24    | 13    | 36    | 20    | 7     | 41    | 29    | 26    | 18    | 13    | 11    | ..... | ..... | 16.4  |
| Emporium.....      | Maximum..  | 46    | 49    | 35    | 32    | 28    | 29    | 41    | 48    | 12    | 20    | 27    | 23    | 42    | 45    | 40    | 40    | 48    | 44    | 45    | 49    | 41    | 52    | 51    | 54    | 39    | 37    | 35    | 44    | ..... | ..... | 39.1  |
|                    | Minimum... | 24    | 32    | 28    | 20    | 11    | 4     | 19    | 12    | 1     | 0     | 14    | -7    | 1     | 32    | 24    | 12    | 24    | 28    | 14    | 41    | 22    | 10    | 36    | 28    | 30    | 24    | 18    | 20    | ..... | ..... | 18.6  |
| Erie.....          | Maximum..  | 51    | 42    | 32    | 30    | 21    | 33    | 48    | 40    | 5     | 22    | 24    | 26    | 42    | 40    | 30    | 42    | 41    | 38    | 49    | 43    | 36    | 58    | 52    | 46    | 49    | 30    | 34    | 40    | ..... | ..... | 37.3  |
|                    | Minimum... | 38    | 30    | 25    | 21    | 12    | 10    | 30    | 5     | -3    | -2    | 9     | 6     | 25    | 30    | 19    | 19    | 30    | 26    | 26    | 36    | 22    | 19    | 40    | 37    | 30    | 23    | 23    | 25    | ..... | ..... | 21.8  |
| Franklin.....      | Maximum..  | 50    | 36    | 29    | 32    | 20    | 36    | 50    | 31    | 19    | 24    | 27    | 12    | 44    | 45    | 32    | 42    | 48    | 46    | 49    | 48    | 34    | 59    | 52    | 59    | 49    | 29    | 37    | 45    | ..... | ..... | 38.7  |
|                    | Minimum... | 27    | 29    | 25    | 20    | 5     | 6     | 9     | 19    | -2    | -4    | -2    | 0     | 9     | 11    | 20    | 11    | 13    | 24    | 15    | 34    | 25    | 12    | 17    | 25    | 21    | 22    | 19    | 19    | ..... | ..... | 15.3  |
| Freeland.....      | Maximum..  | 39    | 48    | 35    | 26    | 22    | 27    | 40    | 50    | 26    | 17    | 30    | 24    | 40    | 45    | 40    | 37    | 44    | 41    | 39    | 45    | 39    | 45    | 51    | 50    | 38    | 32    | 29    | 37    | ..... | ..... | 37.0  |
|                    | Minimum... | 27    | 33    | 25    | 17    | 10    | 3     | 17    | 26    | -2    | 4     | 10    | -1    | 7     | 25    | 24    | 11    | 20    | 32    | 20    | 28    | 31    | 13    | 30    | 31    | 26    | 18    | 16    | 17    | ..... | ..... | 18.2  |
| Gettysburg.....    | Maximum..  | 47    | 58    | 51    | 37    | 33    | 34    | 39    | 52    | 32    | 27    | 35    | 29    | 32    | 41    | 41    | 40    | 42    | 52    | 47    | 53    | 49    | 48    | 59    | 65    | 60    | 43    | 43    | 51    | ..... | ..... | 44.3  |
|                    | Minimum... | 28    | 34    | 30    | 25    | 17    | 12    | 37    | 30    | 10    | 11    | 19    | 3     | 4     | 25    | 32    | 18    | 25    | 31    | 25    | 35    | 36    | 22    | 36    | 39    | 35    | 29    | 24    | 27    | ..... | ..... | 24.6  |
| Greensburg.....    | Maximum..  | 51    | 50    | 33    | 30    | 26    | 33    | 48    | 51    | 13    | 22    | 29    | 29    | 45    | 45    | 43    | 43    | 46    | 46    | 52    | 49    | 45    | 62    | 57    | 60    | 55    | 43    | 41    | 46    | ..... | ..... | 42.6  |
|                    | Minimum... | 32    | 32    | 28    | 20    | 9     | 5     | 32    | 12    | -1    | 4     | 20    | -2    | 14    | 38    | 24    | 14    | 33    | 30    | 25    | 40    | 29    | 21    | 42    | 36    | 43    | 25    | 20    | 20    | ..... | ..... | 23.0  |
| Grove City.....    | Maximum..  | 49    | 49    | 33    | 30    | 28    | 27    | 41    | 48    | 10    | 18    | 24    | 21    | 40    | 43    | 40    | 40    | 43    | 45    | 50    | 47    | 43    | 61    | 54    | 63    | 55    | 40    | 40    | 43    | ..... | ..... | 40.3  |
|                    | Minimum... | 33    | 31    | 25    | 22    | 3     | 5     | 25    | 9     | -3    | -2    | 17    | 2     | 14    | 36    | 26    | 17    | 21    | 26    | 36    | 21    | 19    | 38    | 31    | 36    | 20    | 21    | 20    | ..... | ..... | 20.5  |       |
| Hamburg.....       | Maximum..  | 52    | 53    | 46    | 43    | 36    | 33    | 38    | 48    | 28    | 32    | 25    | 28    | 30    | 41    | 45    | 52    | 53    | 45    | 49    | 47    | 49    | 53    | 56    | 55    | 40    | 38    | 45    | ..... | ..... | 42.8  |       |
|                    | Minimum... | 33    | 29    | 26    | 26    | 14    | 7     | 19    | 28    | 9     | 4     | 8     | 4     | -3    | 19    | 33    | 10    | 18    | 22    | 26    | 34    | 20    | 20    | 26    | 29    | 28    | 26    | 25    | 25    | ..... | ..... | 20.2  |
| Harrisburg.....    | Maximum..  | 44    | 55    | 37    | 31    | 28    | 31    | 42    | 49    | 18    | 25    | 31    | 22    | 28    | 37    | 40    | 37    | 42    | 50    | 45    | 53    | 43    | 47    | 57    | 62    | 43    | 40    | 41    | 50    | ..... | ..... | 40.3  |
|                    | Minimum... | 32    | 35    | 31    | 27    | 18    | 14    | 29    | 15    | 10    | 10    | 19    | 10    | 10    | 27    | 26    | 20    | 28    | 33    | 28    | 35    | 30    | 24    | 36    | 43    | 34    | 27    | 26    | 30    | ..... | ..... | 25.2  |
| Hawley.....        | Maximum..  | 40    | 47    | 44    | 31    | 27    | 27    | 39    | 57    | 38    | 17    | 30    | 26    | 42    | 48    | 41    | 36    | 45    | 41    | 45    | 44    | 48    | 54    | 48    | 43    | 30    | 30    | 36    | ..... | ..... | 39.2  |       |
|                    | Minimum... | 15    | 29    | 29    | 19    | 15    | 3     | 15    | 32    | -2    | -2    | 14    | -5    | -11   | 28    | 28    | 7     | 23    | 29    | 12    | 30    | 29    | 17    | 33    | 28    | 23    | 22    | 17    | 21    | ..... | ..... | 17.6  |
| Huntingdon.....    | Maximum..  | 42    | 52    | 48    | 32    | 26    | 35    | 40    | 51    | 14    | 26    | 30    | 28    | 43    | 43    | 40    | 45    | 50    | 50    | 47    | 53    | 45    | 54    | 57    | 62    | 54    | 43    | 42    | 52    | ..... | ..... | 43.0  |
|                    | Minimum... | 23    | 32    | 30    | 16    | 14    | 11    | 23    | 14    | 6     | 8     | 19    | -4    | -1    | 31    | 29    | 21    | 23    | 36    | 18    | 41    | 30    | 16    | 39    | 32    | 33    | 27    | 22    | 27    | ..... | ..... | 22.0  |
| Johnstown.....     | Maximum..  | 41    | 49    | 33    | 31    | 28    | 35    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |







# CLIMATOLOGICAL DATA

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PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

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No. 3.

## GENERAL SUMMARY.

The month was unusually stormy and blustery, even for March. A small temperature deficiency gave it a wintry feel, while large excesses of precipitation and of wind movement combined to make the conditions thoroughly disagreeable. Precipitation averaged the heaviest for any March of record, and was above the normal in all parts of the State. The greatest excesses were in the southeastern and southwestern counties. Several stations recorded monthly amounts in excess of seven inches. The snowfall averaged a little less than the March normal, with heaviest snows in the northwestern portion of the State and in Somerset, Cambria, Luzerne, and Wayne counties. Monthly amounts of ten inches or more fell over an area equivalent to about ten counties. In the chief wheat growing regions the snowfall averaged from three to four inches, and covered the fields only a small portion of the month. At the close of the month the winter grains were rated considerably below the condition of last year. There was much winter killing in fields that were sown too late last autumn to become strongly rooted. Grass lands entered the winter season in rather poor condition owing to an extremely dry fall, and at the close of the month they were rated considerably below the average. Sunshine was much below the normal, being less than thirty per cent of possible over a large portion of the State. The conditions were unfavorable for outdoor work of all kinds. Fields were muddy, and building and construction and road work made little progress. The stream stage was above the normal, and streams in the Ohio drainage basin were flooded on the 14th and 15th. The resulting damage was unimportant. Minor damage occurred in wind storms, but the large wind movement was occasioned by many hours of strong winds rather than severe local storms. An ice storm occurred in a large portion of the mountain district from the 19th to 21st inclusive, and caused considerable damage to wires. Taken as a whole this was the most disagreeable month of the winter.

## TEMPERATURE.

The mean temperature for the State, as deduced from the observations taken at 88 stations, was 36.6°, which is 1.1° less than the March normal. The highest monthly mean was 42.2°, at Marcus Hook, and the lowest 28.2° at Gouldsboro. Extremes

of temperature ranged from a maximum of 79° at Hyndman on the 14th to a minimum of -7° at Kane (near) on the 11th. The greatest daily range in temperature was 51° at Lykens on the 17th.

## PRECIPITATION.

The average precipitation for the State, as deduced from the reports taken at 145 well-distributed stations, was 5.33 inches, which is 1.89 inches above the normal for the month. The greatest monthly amount was 8.95 inches at Elk Lick, while the least amount, 2.74 inches, was recorded at Erie. The greatest amount recorded in any 24 consecutive hours was 3.36 inches at Clymer on the 13-14th. Snowfall for the month averaged 5.6 inches, which is 2.1 inches less than the normal for March. The greatest monthly amount of snow was 20.5 inches at Warren and Kane (near). The greatest 24-hour snowfall was 7.0 inches and fell at Franklin on the 25-26th.

## COMPARATIVE DATA FOR MARCH

| Year        | Temperature |           |         |        | Precipitation |           |                  |               |                  | No. of days           |       |               |        |
|-------------|-------------|-----------|---------|--------|---------------|-----------|------------------|---------------|------------------|-----------------------|-------|---------------|--------|
|             | Mean        | Departure | Highest | Lowest | Average       | Departure | Greatest monthly | Least monthly | Average Snowfall | of inch or more prec. | Clear | Partly cloudy | Cloudy |
| 1888.....   | 31.2        | -6.5      | 72      | -6     | 3.55          | +0.11     | 6.39             | 1.70          | 9.9              | 11                    | 6     | 10            | 15     |
| 1889.....   | 39.0        | +1.3      | 76      | -4     | 2.90          | -0.54     | 5.44             | 1.44          | 3.1              | 9                     | 10    | 8             | 13     |
| 1890.....   | 33.2        | -4.5      | 76      | -21    | 5.15          | +1.71     | 8.31             | 2.90          | 17.5             | 16                    | 6     | 10            | 15     |
| 1891.....   | 33.8        | -3.9      | 60      | -14    | 5.10          | +1.66     | 8.39             | 2.44          | 15.8             | 14                    | 7     | 8             | 16     |
| 1892.....   | 31.8        | -5.9      | 66      | -4     | 4.14          | +0.70     | 6.61             | 2.04          | 18.8             | 12                    | 11    | 7             | 13     |
| 1893.....   | 34.8        | -2.9      | 74      | 3      | 2.52          | -0.92     | 5.09             | 0.71          | 4.8              | 11                    | 9     | 9             | 13     |
| 1894.....   | 43.2        | +5.5      | 84      | -2     | 1.63          | -1.81     | 2.90             | 0.24          | 1.3              | 8                     | 12    | 11            | 8      |
| 1895.....   | 33.8        | -3.9      | 70      | -4     | 2.31          | -1.13     | 4.03             | 0.99          | 9.0              | 11                    | 10    | 10            | 11     |
| 1896.....   | 30.6        | -7.1      | 69      | -18    | 4.51          | +1.07     | 7.98             | 1.77          | 21.1             | 11                    | 11    | 8             | 12     |
| 1897.....   | 39.0        | +1.3      | 75      | -5     | 3.22          | -0.22     | 5.86             | 1.01          | 3.4              | 13                    | 11    | 7             | 13     |
| 1898.....   | 44.0        | +6.3      | 83      | 4      | 4.31          | +0.87     | 8.40             | 2.06          | 3.6              | 12                    | 10    | 8             | 13     |
| 1899.....   | 36.3        | -1.4      | 75      | 3      | 4.87          | +1.43     | 10.30            | 1.91          | 7.9              | 14                    | 5     | 9             | 17     |
| 1900.....   | 31.2        | -6.5      | 66      | -23    | 3.61          | +0.17     | 7.31             | 2.25          | 13.1             | 10                    | 10    | 9             | 12     |
| 1901.....   | 37.4        | -0.3      | 80      | -11    | 4.14          | +0.70     | 7.21             | 1.52          | 3.3              | 13                    | 7     | 10            | 14     |
| 1902.....   | 41.3        | +3.6      | 78      | 2      | 3.98          | +0.54     | 7.50             | 0.77          | 12.6             | 11                    | 10    | 9             | 12     |
| 1903.....   | 46.4        | +8.7      | 83      | 14     | 4.52          | +1.08     | 5.81             | 2.82          | 0.1              | 11                    | 10    | 7             | 14     |
| 1904.....   | 36.0        | -1.7      | 80      | -2     | 4.29          | +0.85     | 7.02             | 2.10          | 4.7              | 12                    | 9     | 8             | 14     |
| 1905.....   | 39.0        | +1.3      | 86      | -18    | 3.86          | +0.42     | 6.57             | 1.40          | 4.1              | 11                    | 12    | 8             | 11     |
| 1906.....   | 31.7        | -6.0      | 68      | -13    | 4.46          | +1.02     | 7.37             | 2.76          | 20.4             | 14                    | 8     | 7             | 16     |
| 1907.....   | 41.8        | +4.1      | 92      | -10    | 4.26          | +0.82     | 8.20             | 1.08          | 9.3              | 12                    | 11    | 8             | 12     |
| 1908.....   | 40.7        | +3.0      | 83      | -4     | 4.76          | +1.32     | 10.00            | 1.58          | 3.7              | 12                    | 11    | 8             | 12     |
| 1909.....   | 35.6        | -2.1      | 74      | -5     | 3.07          | -0.37     | 4.90             | 1.33          | 7.3              | 12                    | 10    | 9             | 12     |
| 1910.....   | 44.9        | +7.2      | 88      | 5      | 0.56          | -2.88     | 1.33             | 0.00          | 1.0              | 5                     | 15    | 10            | 6      |
| 1911.....   | 35.0        | -2.7      | 73      | -18    | 2.57          | -0.87     | 4.75             | 1.15          | 10.1             | 13                    | 11    | 8             | 12     |
| 1912.....   | 33.6        | -4.1      | 72      | -8     | 5.05          | +1.61     | 9.71             | 1.80          | 6.9              | 13                    | 10    | 8             | 13     |
| 1913.....   | 42.1        | +4.4      | 81      | -7     | 5.27          | +1.83     | 9.08             | 2.75          | 2.1              | 13                    | 9     | 8             | 14     |
| 1914.....   | 34.2        | -3.5      | 79      | -12    | 2.61          | -0.83     | 5.05             | 0.88          | 13.4             | 10                    | 10    | 8             | 13     |
| 1915.....   | 32.9        | -4.8      | 62      | -4     | 1.28          | -2.16     | 2.80             | 0.57          | 9.5              | 7                     | 15    | 8             | 8      |
| 1916.....   | 30.7        | -7.0      | 84      | -31    | 4.12          | +0.68     | 8.84             | 2.20          | 17.6             | 12                    | 12    | 8             | 11     |
| 1917.....   | 37.3        | -0.4      | 84      | -12    | 3.68          | +0.24     | 6.06             | 1.43          | 12.7             | 14                    | 11    | 8             | 12     |
| 1918.....   | 41.6        | +3.9      | 82      | 0      | 2.34          | -1.10     | 4.93             | 0.87          | 1.5              | 17                    | 7     | 7             | 7      |
| 1919.....   | 41.1        | +3.4      | 79      | 6      | 3.57          | +0.13     | 6.99             | 1.29          | 2.4              | 10                    | 15    | 7             | 9      |
| 1920.....   | 38.7        | +1.0      | 80      | -11    | 2.83          | -0.61     | 9.70             | 1.06          | 6.4              | 9                     | 16    | 7             | 8      |
| 1921.....   | 48.0        | +10.3     | 88      | 7      | 3.33          | -0.11     | 6.15             | 1.05          | 1.0              | 14                    | 12    | 9             | 10     |
| 1922.....   | 40.0        | +2.3      | 81      | -5     | 4.37          | +0.93     | 6.65             | 2.30          | 6.1              | 14                    | 11    | 6             | 14     |
| 1923.....   | 37.0        | -0.7      | 80      | -8     | 2.49          | -0.95     | 5.21             | 0.70          | 6.2              | 11                    | 13    | 8             | 10     |
| 1924.....   | 36.1        | -1.6      | 78      | 3      | 2.83          | -0.61     | 8.97             | 0.59          | 10.3             | 9                     | 12    | 9             | 10     |
| 1925.....   | 40.9        | +3.2      | 79      | -15    | 2.56          | -0.88     | 4.13             | 1.47          | 2.2              | 10                    | 14    | 6             | 11     |
| 1926.....   | 33.1        | -4.6      | 79      | -16    | 1.91          | -1.53     | 3.94             | 0.58          | 4.0              | 10                    | 14    | 8             | 9      |
| 1927.....   | 42.0        | +4.3      | 82      | -6     | 2.61          | -0.83     | 5.43             | 0.69          | 0.7              | 10                    | 13    | 7             | 11     |
| 1928.....   | 37.0        | -0.7      | 82      | -3     | 3.24          | -0.20     | 5.45             | 1.65          | 14.5             | 11                    | 12    | 9             | 10     |
| 1929.....   | 43.7        | +6.0      | 89      | -5     | 2.69          | -0.75     | 4.50             | 1.37          | 4.4              | 12                    | 12    | 8             | 11     |
| 1930.....   | 37.9        | +0.2      | 78      | -9     | 3.03          | -0.41     | 5.05             | 1.04          | 4.9              | 10                    | 13    | 7             | 11     |
| 1931.....   | 36.3        | -1.4      | 69      | 10     | 2.96          | -0.48     | 5.72             | 0.70          | 6.6              | 11                    | 8     | 7             | 16     |
| 1932.....   | 33.4        | -4.3      | 72      | -8     | 4.41          | +0.97     | 7.46             | 1.63          | 14.7             | 11                    | 10    | 8             | 13     |
| 1933.....   | 36.6        | -1.1      | 79      | -7     | 5.83          | +1.89     | 8.95             | 2.74          | 5.6              | 14                    | 8     | 7             | 16     |
| Period..... | 37.7        | .....     | 92      | -31    | 3.44          | .....     | 10.30            | 0.00          | 7.7              | 11                    | 11    | 8             | 12     |



## Climatological Data for March, 1933

| Stations           | Counties     | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                 |      |                 |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------|--------------|-----------------|-------------------------|------------------------------|---------------------------|-----------------|------|-----------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                    |              |                 |                         | Mean                         | Departure from the normal | Highest         | Date | Lowest          | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| Atlantic Drainage. |              |                 |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Allentown          | Lehigh       | 254             | 21                      | 36.3                         | -2.0                      | 59              | 17   | 15              | 11   | 38                       | 4.96  | +1.74                     | 1.23                 | 2.0                       | 12                           | 16    | 5          | 10                           | nw.       | John A. Frick.              |
| Altoona            | Blair        | 1,615           | 46                      | 34.9                         | -2.9                      | 73              | 14   | 9               | 10   | 35                       | 6.69  | +3.97                     | 1.22                 | 7.2                       | 18                           | 14    | 6          | 11                           | w.        | F. E. Rooney.               |
| Ardmore            | Montgomery   | 350             | 1                       | 39.7                         | -2.6                      | 65              | 17   | 14              | 11   | 33                       | 5.52  | +2.00                     | 1.21                 | 3.4                       | 13                           |       |            |                              |           | H. G. Balderston.           |
| Arendtsville       | Adams        | 700             | 11                      | 36.8                         | -2.7                      | 75              | 14   | 10              | 11   | 45                       | 6.02  | +2.55                     | 1.87                 | 4.0                       | 9                            | 14    | 3          | 14                           | nw.       | Dr. S. W. Frost.            |
| Bedford            | Bedford      | 1,060           | 1                       | 37.6                         |                           | 76              | 14   | 12              | 10†  | 38                       | 5.03  |                           | 1.52                 | 4.0                       | 13                           | 8     | 9          | 14                           | nw.       | Charles C. Lee.             |
| Bellefonte         | Center       | 1,050           | 25                      | 34.6                         | -5.5                      | 71              | 14   | 10              | 11   | 34                       | 4.33  | +0.91                     | 0.87                 | 2.5                       | 14                           | 3     | 7          | 21                           | w.        | U. S. Weather Bureau.       |
| Bethlehem          | Northampton  | 364             | 48                      | 38.6                         | -2.0                      | 60              | 17   | 15              | 11   | 26                       | 4.88  | +1.47                     | 0.85                 | T.                        | 16                           | 13    | 2          | 16                           | nw.       | Lehigh University.          |
| Carlisle           | Cumberland   | 467             | 67                      | 39.2                         | +0.8                      | 65              | 17   | 15              | 11   | 36                       | 5.66  | +2.28                     | 1.08                 | 4.0                       | 12                           | 13    | 4          | 14                           | nw.       | Prof. C. E. Miller.         |
| Catawissa          | Columbia     | 520             | 37                      | 38.2                         | -0.2                      | 70              | 14   | 11              | 10   | 32                       | 4.17  | +1.28                     | 0.81                 | 2.1                       | 12                           | 11    | 3          | 17                           |           | W. L. Gearhart.             |
| Center Hill        | Center       | 1,272           | 37                      | 35.6                         | -1.0                      | 71              | 14   | 10              | 11   | 39                       | 6.40  | +3.35                     | 1.76                 | 6.5                       | 12                           | 12    | 11         | 8                            |           | S. W. Smith.                |
| Chambersburg       | Franklin     | 580             | 34                      | 38.8                         | -0.7                      | 75              | 14   | 15              | 11   | 38                       | 5.92  | +2.93                     | 1.61                 | 3.5                       | 14                           | 9     | 5          | 16                           | nw.       | William B. Spear.           |
| Clearfield         | Clearfield   | 1,120           | 26                      | 36.0                         | -1.9                      | 70              | 14   | 6               | 11   | 42                       | 6.13  | +2.75                     | 1.15                 | 12.0                      | 16                           | 6     | 10         | 15                           | nw.       | E. W. Hess.                 |
| Coatesville        | Chester      | 380             | 46                      | 38.4                         | -1.6                      | 61              | 17   | 15              | 11   | 31                       | 6.06  | +1.98                     | 1.15                 | 3.0                       | 14                           | 12    | 0          | 19                           | nw.       | Howard L. Pyle.             |
| Colebrook          | Lebanon      | 560             | 22                      | 36.4                         | -3.7                      | 60              | 17   | 13              | 11   | 32                       | 5.56  | +2.10                     | 1.15                 | 5.6                       | 13                           | 9     | 5          | 17                           | w.        | Wm. A. Rorer.               |
| Emporium           | Cameron      | 1,050           | 46                      | 34.2                         | -1.2                      | 65              | 14   | 1               | 11   | 35                       | 4.74  | +1.12                     | 1.21                 | 7.2                       | 14                           | 9     | 3          | 19                           | n.        | T. B. Lloyd.                |
| Ephrata            | Lancaster    | 380             | 41                      | 39.8                         | -0.2                      | 66              | 14   | 16              | 11   | 33                       | 5.33  | +1.94                     | 0.98                 | 5.1                       | 13                           | 10    | 4          | 17                           | ne.       | Ira J. Keath.               |
| Freeland           | Luzerne      | 1,970           | 40                      | 31.8                         | -1.1                      | 65              | 14   | 5               | 11   | 33                       | 4.87  | +1.30                     | 0.88                 | 15.5                      | 16                           | 4     | 5          | 22                           | nw.       | Theo. Reichmann.            |
| George School      | Bucks        | 190             | 27                      | 39.0                         | -1.7                      | 62              | 17   | 15              | 11   | 31                       | 4.99  | +1.82                     | 0.94                 | 4.0                       | 15                           | 12    | 6          | 13                           | n.        | Prof. N. W. Swayne          |
| Gettysburg         | Adams        | 553             | 60                      | 39.4                         | -0.7                      | 71              | 14   | 15              | 11   | 34                       | 6.60  | +3.46                     | 1.07                 | 4.5                       | 14                           | 12    | 4          | 15                           | nw.       | Dr. Henry Stewart           |
| Gordon             | Schuylkill   | 840             | 29                      | 36.1                         | -0.8                      | 66              | 14   | 12              | 11   | 33                       | 5.54  | +1.72                     | 1.13                 | 10.0                      | 14                           | 10    | 6          | 15                           | w.        | Sallie M. Johnson.          |
| Gouldsboro         | Wayne        | 1,875           | 18                      | 28.2                         |                           | 48              | 17†  | 3               | 11   | 29                       | 4.30  | +1.26                     | 1.10                 | 7.0                       | 8                            | 7     | 7          | 17                           | w.        | Gustav Holtz.               |
| Hamburg            | Berks        | 535             | 40                      | 36.9                         | -1.5                      | 59              | 17   | 14              | 11   | 30                       | 6.34  | +2.54                     | 1.10                 | 2.0                       | 12                           | 12    | 9          | 10                           | w.        | State Sanatorium.           |
| Hanover            | York         | 600             | 29                      | 40.7                         | -1.8                      | 71              | 14   | 15              | 11   | 33                       | 5.36  | +2.30                     | 1.47                 | 1.0                       | 14                           | 11    | 4          | 16                           | n.        | Thomas Y. Cooper.           |
| Harrisburg         | Dauphin      | 361             | 64                      | 38.7                         | -0.2                      | 63              | 17   | 17              | 11   | 28                       | 5.65  | +2.61                     | 1.27                 | 4.1                       | 14                           | 5     | 10         | 16                           | nw.       | U. S. Weather Bureau.       |
| Hawley             | Wayne        | 900             | 15                      | 33.0                         | -2.5                      | 58              | 17   | 9               | 11   | 32                       | 4.15  | +1.37                     | 0.94                 | 6.7                       | 13                           | 9     | 10         | 12                           | w.        | Mrs. Della M. Pennell.      |
| Holtwood           | Lancaster    | 200             | 18                      | 39.0                         | -2.1                      | 66              | 17   | 19              | 11   | 36                       | 4.45  | +1.79                     | 1.04                 | 3.0                       | 11                           | 7     | 12         | 12                           | nw.       | H. W. Lowy, C. E.           |
| Huntingdon         | Huntingdon   | 650             | 46                      | 37.8                         | -1.1                      | 78              | 14   | 13              | 11   | 50                       | 5.86  | +2.51                     | 1.10                 | 6.0                       | 13                           | 6     | 6          | 19                           | nw.       | Prof. Paul R. Yoder.        |
| Hyndman            | Bedford      | 977             | 21                      | 39.0                         | -1.4                      | 79              | 14   | 9               | 11   | 43                       | 6.04  | +3.05                     | 1.13                 | 4.9                       | 14                           | 5     | 7          | 19                           | nw.       | Horace A. Sheavly.          |
| Lancaster          | Lancaster    | 255             | 46                      | 36.9                         | -2.8                      | 64              | 14†  | 13              | 11   | 36                       | 6.13  | +2.80                     | 1.12                 | 5.0                       | 13                           | 16    | 6          | 9                            | w.        | Supt. of Water Works.       |
| Lawrenceville      | Tioga        | 1,000           | 36                      | 35.2 <sup>a</sup>            | +0.4                      | 70 <sup>c</sup> | 14   | 9 <sup>d</sup>  | 10   | 35 <sup>d</sup>          | 2.97  | +0.66                     | 0.72                 | 5.0                       | 11                           | 9     | 6          | 16                           | nw.       | C. P. Darling.              |
| Lebanon            | Lebanon      | 469             | 49                      | 37.4                         | -2.0                      | 63              | 17   | 14              | 11   | 35                       | 5.88  | +2.32                     | 1.40                 | 4.0                       | 13                           | 11    | 11         | 9                            | w.        | Lebanon Valley Gas Co.      |
| Lewisburg          | Union        | 450             | 57                      | 39.2                         | +2.2                      | 68              | 17   | 14              | 11   | 34                       | 5.34  | +1.84                     | 0.90                 | 2.0                       | 15                           | 6     | 9          | 16                           | w.        | Prof. W. G. Owens.          |
| Lock Haven         | Clinton      | 560             | 43                      | 38.4                         | -0.2                      | 63              | 14   | 12              | 13   | 31                       | 4.15  | +0.80                     | 0.83                 | 4.5                       | 14                           | 8     | 8          | 17                           | sw.       | Joseph Beaver.              |
| Lykens             | Dauphin      | 680             | 18                      | 36.8                         | -2.7                      | 73              | 17   | 12              | 12†  | 51                       | 5.32  | +2.53                     | 0.90                 | 4.4                       | 13                           | 11    | 6          | 14                           | nw.       | Susquehanna Collieries Co.  |
| Marcus Hook        | Delaware     | 50              | 6                       | 42.2 <sup>b</sup>            |                           | 62 <sup>b</sup> | 30†  | 17 <sup>b</sup> | 11   | 28 <sup>b</sup>          | 4.65  |                           | 1.40                 | 0.6                       | 9                            | 15    | 5          | 11                           | nw.       | Sun Oil Co.                 |
| Mauch Chunk        | Carbon       | 600             | 44                      | 40.2                         | -2.8                      | 65              | 17   | 18              | 10†  | 28                       | 5.37  | +1.18                     | 1.36                 | 5.0                       | 12                           | 12    | 5          | 14                           | ne.       | R. K. Wintermute.           |
| Millintown         | Junata       | 445             | 29                      | 39.9                         | +0.7                      | 69              | 14   | 15              | 10†  | 39                       | 4.68  | +1.80                     | 0.92                 | 2.0                       | 11                           | 11    | 5          | 15                           | w.        | W. H. Manbeck.              |
| Montrose           | Susquehanna  | 1,658           | 29                      | 31.0                         | -1.3                      | 60              | 14   | 7               | 6†   | 38                       | 3.85  | +1.23                     | 1.75                 | 6.0                       | 11                           | 6     | 5          | 20                           | w.        | Silas Jagger.               |
| Mt. Pocono         | Monroe       | 1,720           | 27                      |                              |                           | 60              | 14   |                 |      | 31                       | 3.73  | +1.20                     | 1.06                 | T.                        | 11                           | 10    | 9          | 12                           | nw.       | Cecil J. Hoskinson.         |
| Muncy Valley       | Sullivan     | 1,045           | 21                      | 34.6                         | -1.1                      | 60              | 14   |                 |      | 35                       | 3.73  | +1.20                     | 1.06                 | T.                        | 11                           | 10    | 9          | 12                           | nw.       | H. O. Hacker.               |
| Neshaminy Falls†   | Bucks        | 60              | 44                      | 38.4                         | -1.0                      | 61              | 17   | 15              | 11   | 31                       | 5.97  | +3.20                     | 1.12                 | 1.2                       | 14                           | 17    | 4          | 10                           | nw.       | Philadelphia Sub. Water Co. |
| Palmerton          | Carbon       | 398             | 15                      | 36.4                         |                           | 60              | 17   | 15              | 11   | 28                       | 3.92  | +1.33                     | 0.71                 | 2.3                       | 13                           | 6     | 7          | 18                           | nw.       | New Jersey Zinc Co.         |
| Philadelphia       | Philadelphia | 114             | 62                      | 41.4                         | +0.6                      | 60              | 17   | 20              | 11   | 24                       | 4.86  | +1.47                     | 1.25                 | 0.7                       | 12                           | 6     | 6          | 19                           | nw.       | U. S. Weather Bureau.       |
| Philadelphia-Gtn.  | Philadelphia | 113             | 9                       | 41.4                         |                           | 63              | 17   | 18              | 16   | 26                       | 5.55  |                           | 1.17                 | 1.2                       | 13                           | 6     | 10         | 15                           | nw.       | Julius Bernstein.           |
| Phila. Navy Yard   | Philadelphia | 12              | 17                      | 40.6                         | -1.7                      | 59              | 17   | 20              | 11   | 24                       | 4.91  | +1.79                     | 1.26                 | 5.2                       | 13                           | 7     | 12         | 12                           | nw.       | Commandant, Navy Yard.      |
| Phoenixville       | Chester      | 100             | 23                      | 40.7                         | -0.1                      | 68              | 17   | 16              | 11   | 38                       | 5.88  | +2.57                     | 1.10                 | 2.9                       | 14                           | 11    | 18         | 7                            | w.        | Philadelphia Sub. Water Co. |
| Quakertown         | Bucks        | 496             | 48                      | 36.9                         | -0.4                      | 59              | 17   | 14              | 11   | 29                       | 6.00  | +2.47                     | 1.40                 | 2.2                       | 15                           | 14    | 6          | 11                           | nw.       | John E. Benner.             |
| Reading            | Berks        | 514             | 63                      | 39.7                         | -0.3                      | 67              | 17   | 16              | 11   | 31                       | 4.46  | +0.94                     | 0.86                 | 4.0                       | 13                           | 5     | 11         | 15                           | nw.       | U. S. Weather Bureau.       |
| Scranton           | Lackawanna   | 805             | 39                      | 35.2                         | -0.5                      | 66              | 14   | 12              | 11   | 30                       | 5.53  | +0.33                     | 0.89                 | 5.0                       | 16                           | 4     | 9          | 18                           | nw.       | U. S. Weather Bureau.       |
| Selinsgrove        | Snyder       | 455             | 43                      | 38.0                         | -0.5                      | 66              | 14   | 13              | 11   | 30                       | 5.53  | +1.97                     | 1.00                 | 5.0                       | 13                           | 8     | 10         | 13                           | nw.       | Dr. George E. Fisher.       |
| Shawmont†          | Philadelphia | 51              | 37                      | 39.4                         | -0.9                      | 60              | 17   | 18              | 11   | 26                       | 5.24  | +1.83                     | 1.11                 | 0.5                       | 14                           | 9     | 7          | 15                           | nw.       | W. S. Guiles.               |
| State College      | Center       | 1,217           | 49                      | 35.6                         | -0.5                      | 72              | 14   | 9               | 10†  | 32                       | 5.69  | +2.51                     | 0.86                 | 4.4                       | 13                           | 6     | 9          | 16                           | w.        | C. A. Kern.                 |
| Stroudsburg        | Monroe       | 500             | 19                      | 34.2                         | -2.6                      | 61              | 17   | 13              | 11   | 31                       | 6.62  | +2.97                     | 1.21                 | 3.2                       | 13                           | 7     | 8          | 21                           | nw.       | State Normal School.        |
| Towanda            | Bradford     | 754             | 39                      | 35.8                         | +0.7                      | 70              | 14   | 12              | 10†  | 32                       | 2.93  | +0.37                     | 0.59                 | 1.5                       | 15                           | 6     | 9          | 16                           | w.        | Mrs. M. Ordella Parks.      |
| Wellsboro          | Tioga        | 1,419           | 63                      | 30.4 <sup>b</sup>            | -2.6                      | 89 <sup>b</sup> | 14   | 7 <sup>b</sup>  | 10†  | 37 <sup>b</sup>          | 3.30  | +0.23                     | 0.92                 | 6.5                       | 12                           | 11    | 4          | 16                           | w.        | George W. Hill.             |
| West Chester       | Chester      | 455             | 84                      | 39.2                         | +0.3                      | 61              | 17   | 15              | 11   | 28                       | 5.29  | +1.39                     | 1.29                 | 4.5                       | 13                           | 14    | 9          | 8                            | w.        | Joseph W. Belt.             |
| Williamsport       | Lycoming     | 521             | 47                      | 38.0                         | +0.4                      | 63              | 15   | 12              | 11   | 32                       | 4.29  | +1.09                     | 0.91                 | 2.5                       | 11                           | 9     | 5          | 17                           | w.        | Miss Veronica E. April.     |
| York               | York         | 400             | 45                      | 40.0                         | -0.6                      | 73              | 14   | 15              | 11   | 35                       | 5.40  | +2.24                     | 1.30                 | 4.0                       | 14                           | 11    | 12         | 8                            | w.        | York Water Co.              |
| Ohio Drainage.     |              |                 |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Beaver Dam†        | Beaver       | 700             | 41                      | 37.8                         | -3.4                      | 66              | 31   | 9               | 11   | 37                       | 6.00  | +2.65                     | 1.75                 | 3.7                       | 17                           | 4     | 7          | 20                           | sw.       | U. S. Engineer.             |
| Bradford           | McKean       | 1,460           | 14                      | 31.6                         | -4.5                      | 66              | 14   | -2              | 11   | 38                       | 3.16  | -0.13                     | 0.88                 | 15.4                      | 17                           | 6     | 3          | 22                           | w.        | Supt. Timber Pres. Plant.   |
| Brookville         | Jefferson    | 1,173           | 43                      | 32.0                         | -1.8                      | 70              | 14   | 3               | 11   | 44                       | 5.29  | +2.21                     | 1.83                 | 8.0                       | 14                           | 6     | 6          | 19                           |           | John Fawcett.               |
| Butler             | Butler       | 1,077           |                         |                              |                           |                 |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |



Daily Precipitation for March, 1933

| Stations           | Drainage Basin | Day of month |     |     |     |   |   |      |      |     |     |    |     |      |      |      |     |    |      |      |      |      |     |     |     |     |     |     |      |     |     |      | Total |  |
|--------------------|----------------|--------------|-----|-----|-----|---|---|------|------|-----|-----|----|-----|------|------|------|-----|----|------|------|------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-------|--|
|                    |                | 1            | 2   | 3   | 4   | 5 | 6 | 7    | 8    | 9   | 10  | 11 | 12  | 13   | 14   | 15   | 16  | 17 | 18   | 19   | 20   | 21   | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29  | 30  | 31   |       |  |
| Atlantic Drainage. |                |              |     |     |     |   |   |      |      |     |     |    |     |      |      |      |     |    |      |      |      |      |     |     |     |     |     |     |      |     |     |      |       |  |
| Allentown          | Lehigh         |              | T.  | T.  |     |   |   | .95  | T.   |     |     |    |     | .90  | .24  | .08  |     |    | .17  | .96  | 1.23 | .17  | T.  | .03 |     | .16 | .04 | T.  | .03  |     |     |      | 4.96  |  |
| Altoona            | Juniata        | .01          | .03 | T.  |     |   |   | .34  | .18  | .18 | .05 |    |     | .93  | 1.04 | .80  |     |    | .23  | 1.22 | .40  | .26  | .07 | .10 |     | .27 | .25 |     |      |     |     | .33  | 6.69  |  |
| Ansonia            | W. Br. Susq.   |              |     | .01 |     |   |   | .96  | T.   |     |     |    |     | T.   | .20  | .83  | .09 |    |      | .24  | .29  | .32  | .13 | T.  | T.  |     | .12 | T.  | .05  |     |     | .03  | 3.27  |  |
| Ardmore            | Lower Del.     |              |     | .08 |     |   |   | 1.03 |      |     |     |    |     | 1.21 | .25  | .06  |     |    | .06  | .84  | .88  | .55  |     | .09 |     | .51 |     |     |      |     |     | .08  | 5.63  |  |
| Arendtsville       | Lower Susq.    |              |     |     |     |   |   | 1.37 |      |     |     |    |     | 1.30 | .34  |      |     |    | .64  | .73  | .89  |      |     |     |     | .38 |     |     |      |     | .02 | .21  | 6.02  |  |
| Baker's Summit     | Juniata        |              |     |     |     |   |   | .50  | .18  | .12 | .06 |    |     | 1.05 | .49  | 1.11 |     |    | .24  | .79  | .44  | .21  |     | .16 |     | .35 |     |     |      |     |     | .12  | 5.82  |  |
| Bedford            | Juniata        |              | T.  | T.  |     |   |   | .40  | .14  | .06 | T.  |    | T.  | .72  | .80  | .62  |     |    | .25  | .87  | .35  | .19  | T.  | .13 |     | .26 | T.  |     |      |     |     | .24  | 5.03  |  |
| Bellefonte         | W. Br. Susq.   | T.           | T.  | T.  | T.  |   |   | .55  | .18  | .01 | T.  | T. |     | .57  | .55  | .58  | T.  |    | .23  | .58  | .34  | .33  | T.  | .04 | T.  | .16 | .01 | T.  |      |     |     | .20  | 4.33  |  |
| Bethlehem          | Lehigh         |              |     |     |     |   |   | .15  | .68  | .02 | T.  |    |     | .25  | .60  | .32  |     |    | .04  | .82  | .74  | .78  |     | .03 | .01 |     | .37 | .02 | .03  |     |     | .02  | 4.88  |  |
| Bloersville        | Lower Susq.    |              |     |     |     |   |   | .50  |      | .05 |     |    |     | *    | 1.10 | .65  |     |    | .45  | .50  | .45  | .25  |     | .05 |     | .25 |     |     |      |     |     | .16  | 4.41  |  |
| Buffalo Mills      | Juniata        |              |     |     |     |   |   | .78  | .13  |     |     |    |     | 1.60 | .60  | .02  |     |    | 1.10 | .50  | .30  |      |     |     |     | .42 |     |     |      |     |     | 5.45 |       |  |
| Carlisle           | Lower Susq.    |              | T.  |     |     |   |   | .35  | .52  | .13 |     |    |     | .52  | .59  | .44  |     |    | .15  | 1.08 | .67  | .70  |     | .08 |     | .33 | T.  |     |      |     | .23 | 5.66 |       |  |
| Catawissa          | N. Br. Susq.   | T.           |     |     |     |   |   | .30  | .05  |     |     |    |     | .70  | .38  | .40  |     |    | .08  | .81  | .40  | .62  |     |     |     | .18 | T.  |     |      |     | .21 | 4.17 |       |  |
| Center Hall        | Susquehanna    |              |     |     | T.  |   |   | .78  | .10  |     |     |    |     | .14  | .68  | 1.76 |     |    | .18  | .65  | 1.18 |      | T.  | .12 |     | .38 | .29 |     |      |     | .14 | 6.40 |       |  |
| Chambersburg       | Potomac        |              | T.  |     |     |   |   | .68  | .40  | .05 | T.  |    |     | .80  | .81  | .62  |     |    | .15  | .90  | .61  | .32  |     | .14 |     | .21 | .04 |     |      |     | .19 | 5.92 |       |  |
| Clearfield         | W. Br. Susq.   | T.           | T.  |     |     |   |   | .45  | .40  | .15 |     |    |     | .40  | 1.16 | 1.08 | T.  |    | .21  | .80  | .40  | .24  | .04 | .03 |     | .30 | .10 | .08 | T.   |     |     | .30  | 6.13  |  |
| Coatesville        | Lower Del.     |              |     | .01 |     |   |   | 1.15 | .10  |     |     |    |     | 1.00 | .28  | .35  |     |    | .08  | .73  | .80  | .95  |     | .08 |     | .30 | .03 |     |      |     |     | .20  | 6.06  |  |
| Colebrook          | Lower Susq.    | T.           | T.  |     |     |   |   | .79  | .04  |     |     |    |     | .79  | .22  | .37  |     |    | .17  | 1.15 | .59  | .63  | T.  | .03 | T.  | *   | .48 |     |      |     |     | .30  | 5.56  |  |
| Conshohocken       | Schuylkill     |              |     |     |     |   |   |      |      |     |     |    |     |      |      |      |     |    |      |      |      |      |     |     |     |     |     |     |      |     |     |      |       |  |
| Cresson            | Juniata        | .06          | .03 |     |     |   |   | .39  |      |     | .09 |    |     | .98  | 1.00 | .44  |     |    | .40  | .61  | .34  | .14  | .08 | .12 |     | .40 | .14 |     |      |     |     |      | 5.22  |  |
| Dorlestown         | Lower Del.     |              | .03 |     |     |   |   | .12  | .82  |     |     |    |     | .75  | .38  | .23  |     |    | .06  | .86  | .82  | .65  |     | .04 |     | .32 |     |     | .02  |     |     | .03  | 5.13  |  |
| Emporium           | W. Br. Susq.   |              |     |     |     |   |   | .44  | .30  | .10 | T.  |    | T.  | .16  | .45  | 1.21 |     |    | .07  | .42  | .83  | .27  | .02 |     | T.  | .30 | .35 |     | T.   |     |     | .32  | 4.74  |  |
| Ephrata            | Lower Susq.    |              | T.  |     |     |   |   | .25  | .53  |     |     |    |     | .62  | .44  | .36  |     |    | .09  | .98  | .73  | .80  |     | .02 |     | .15 | .22 |     |      |     |     | .14  | 5.33  |  |
| Forest City        | N. Br. Susq.   |              |     |     |     |   |   | .69  | T.   |     |     |    |     | T.   | .06  |      |     |    | .31  | .56  | .08  | .40  | T.  |     |     | .20 |     |     |      |     |     | .35  | 2.93  |  |
| Freeland           | Lehigh         | .22          | .09 |     | T.  |   |   | .56  | .68  | .12 |     |    |     | .88  | .42  | .21  |     |    | .40  | .38  | .26  | T.   |     | .01 | .06 |     | .43 | .19 |      | .04 | T.  |      | 4.87  |  |
| Galeton            | W. Br. Susq.   | .05          |     |     |     |   |   | .21  | .64  | T.  |     |    | .04 | .03  | .23  | 1.03 |     |    | .04  | .40  | .38  | .26  | T.  |     | T.  | .20 | .10 |     |      | .03 |     | .10  | 3.74  |  |
| George School      | Lower Del.     | .07          | T.  |     |     |   |   | .14  | .79  | T.  |     |    |     | .51  | .57  | .19  |     |    | .05  | .68  | .94  | .45  |     | .10 |     | .43 | .04 | .01 |      |     | .02 | 4.99 |       |  |
| Gettysburg         | Potomac        |              | T.  |     |     |   |   | 1.07 | .58  | .04 | T.  |    |     | .86  | .84  | .21  |     |    | .11  | .93  | .73  | .55  |     | .12 |     | .30 | .09 |     |      |     | .21 | 6.60 |       |  |
| Girardville        | Lower Susq.    |              |     |     |     |   |   | .74  | .02  |     |     |    |     | 1.02 | .45  | .16  |     |    | .15  | 1.07 | .43  | .13  |     | .09 |     | .55 | .03 |     |      |     | .16 | 5.00 |       |  |
| Gordon             | Lower Susq.    | .12          |     |     |     |   |   | .13  | 1.13 |     |     |    |     | .30  | .98  | .88  |     |    | .07  | .60  | .63  | .42  |     | .20 |     | .10 | .35 |     |      |     |     | .13  | 5.54  |  |
| Gouldsboro         | Lehigh         | .28          |     |     |     |   |   | .16  | .94  |     | .76 |    |     | .65  | 1.10 |      |     |    | .19  | .68  | .81  | .93  |     | .10 |     | .03 | .31 |     | .01  |     |     | .03  | 4.30  |  |
| Graterford         | Schuylkill     | .02          |     |     |     |   |   | .36  | .69  |     |     |    |     | .30  | .75  | .25  |     |    | .15  | 1.10 | .80  | .95  |     | .21 |     | .40 |     |     |      |     |     | .38  | 6.42  |  |
| Hamburg            | Schuylkill     | T.           |     |     |     |   |   | .26  | .41  | .03 |     |    |     | .72  | .75  | .19  |     |    | .09  | .87  | .77  | .62  | T.  | .12 |     | .13 | .23 |     |      |     |     | .17  | 5.36  |  |
| Hanover            | Lower Susq.    | T.           | T.  |     |     |   |   | .75  | T.   | .01 |     |    |     | 1.05 | .35  | .30  |     |    | .14  | 1.07 | .65  | .46  | T.  | .07 | T.  | .44 | .03 |     | .01  |     |     | .32  | 5.65  |  |
| Harrisburg         | Upper Del.     | .13          | T.  |     | T.  |   |   | .82  | .05  |     | T.  |    |     | .76  | .21  | .08  |     |    | .01  | .54  | .94  | .25  |     |     |     | .19 | .11 | .06 | T.   |     |     |      | 4.15  |  |
| Hawley             | Upper Del.     | .27          | .05 |     |     |   |   | .71  | .14  | T.  |     |    |     | .78  | .35  | .05  |     |    | .20  | .60  | .85  | .38  | T.  | T.  | .30 | .22 | .04 | .03 | .02  |     |     | .03  | 4.99  |  |
| Hollisterville     | Lower Susq.    |              |     |     |     |   |   | .63  |      |     |     |    |     | .98  | .10  | .03  |     |    | .47  | .57  | 1.04 | .13  | T.  | .07 | T.  | .40 |     |     |      |     |     | .03  | 4.45  |  |
| Holtwood           | Lower Susq.    | T.           | T.  |     |     |   |   | .58  | .04  |     |     |    |     | .66  | .85  | .81  |     |    | .20  | 1.10 | .47  | .29  | T.  | .11 | T.  | .32 | .07 |     |      |     | .36 | 5.86 |       |  |
| Huntingdon         | Juniata        | T.           | T.  |     |     |   |   | .56  | .16  | .15 | T.  |    |     | .85  | 1.13 | .46  |     |    | .33  | .88  | .42  | .29  | T.  | .19 |     | .26 | .15 |     |      |     | .21 | 6.04 |       |  |
| Hyndman            | Potomac        |              | T.  |     |     |   |   | .19  | .40  | .14 |     |    |     | .35  | 1.25 | 1.05 |     |    | .21  | .75  | .45  | .24  | .03 | .04 |     | .10 | .09 |     |      |     | .23 | 5.52 |       |  |
| Kylertown          | W. Br. Susq.   |              |     |     |     |   |   | .75  | T.   |     |     |    |     | .85  | .36  | .27  | T.  |    | .82  | .78  | 1.05 | .12  |     |     |     | .25 | T.  | .12 |      |     |     | 5.58 |       |  |
| Lakeville          | Upper Del.     | .21          |     |     |     |   |   |      |      |     |     |    |     |      |      |      |     |    |      |      |      |      |     |     |     |     |     |     |      |     |     |      |       |  |
| Lancaster          | Lower Susq.    | .02          |     |     |     |   |   | .95  |      |     |     |    |     | .55  | .60  | .41  |     |    | .10  | .85  | .83  | 1.12 |     | .05 |     | .30 | .20 |     |      |     | .15 | 6.13 |       |  |
| Lansford           | Lehigh         | .01          | T.  |     |     |   |   | .76  | T.   |     |     |    |     | .98  | .46  | .08  |     |    | T.   | *    | .71  | .59  | .17 |     |     | *   | .52 |     |      |     |     |      | 4.28  |  |
| Lawnsville         | N. Br. Susq.   | T.           | .05 |     |     |   |   | .10  | .50  | T.  | T.  |    |     | T.   | .10  | .72  |     |    | T.   | .40  | .40  | .40  | T.  |     |     | .10 | .10 |     | T.   |     |     | .10  | 2.97  |  |
| Lebanon            | Lower Susq.    | T.           | T.  |     |     |   |   | 1.01 | T.   |     |     |    |     | 1.40 | .29  | .06  |     |    | .66  | .83  | .79  | .13  |     | .01 | T.  | .37 |     | .01 |      |     | .04 |      | 5.88  |  |
| Lewisburg          | W. Br. Susq.   | .01          |     |     | .01 |   |   | .40  | .79  |     |     |    |     | .28  | .90  | .40  |     |    | .10  | .82  | .53  | .41  |     | .06 |     | *   | .40 |     |      |     |     | .23  | 5.34  |  |
| Lock Haven         | W. Br. Susq.   | T.           |     |     |     |   |   | .30  | .24  | .13 |     |    |     | .05  | .83  | .78  |     |    | .08  | .59  | .41  | .28  | T.  | .01 |     | .05 | .18 |     |      |     |     | .22  | 4.15  |  |
| Lykens             | Susquehanna    | .04          |     |     |     |   |   | .14  | .70  | T.  |     |    |     | .53  | .45  | .60  |     |    | .10  | .90  | .43  | .71  | T.  | .10 |     | T.  | .44 |     | T.   |     |     | .18  | 5.32  |  |
| Marcus Hook        | Lower Del.     | T.           | T.  |     |     |   |   | .75  |      |     |     |    |     | 1.10 | .30  |      |     |    | *    | *    | 1.50 | .50  |     |     |     | .40 |     |     |      |     | .10 | 4.65 |       |  |
| Matamoras          | Upper Del.     |              |     |     |     |   |   | .83  |      |     |     |    |     | .51  | .36  |      |     |    |      | .81  | 1.12 | .27  |     |     |     | .20 | .08 |     |      |     |     | 4.18 |       |  |
| Mauch Chunk        | Lehigh         | T.           |     |     |     |   |   | .45  | .61  |     |     |    |     | .63  | .73  | .24  |     |    | .15  | .74  | .50  | .73  | T.  | T.  |     | .32 | .12 |     | T.</ |     |     |      |       |  |



## Daily Precipitation for March, 1933—Continued from page 13

| Stations          | Drainage Basin | Day of month |     |     |     |     |     |    |     |      |     |     |     |     |      |      |      |     |     |     |      |      |     |     |     |     |     |     |     |     |     |      | Total |
|-------------------|----------------|--------------|-----|-----|-----|-----|-----|----|-----|------|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
|                   |                | 1            | 2   | 3   | 4   | 5   | 6   | 7  | 8   | 9    | 10  | 11  | 12  | 13  | 14   | 15   | 16   | 17  | 18  | 19  | 20   | 21   | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |
| Ohio Drainage     |                |              |     |     |     |     |     |    |     |      |     |     |     |     |      |      |      |     |     |     |      |      |     |     |     |     |     |     |     |     |     |      |       |
| Beaver Dam\|\|\| | Ohio           | .03          | .03 | .04 |     |     |     | T. | .55 | .18  | .03 |     |     | .20 | 1.75 | .87  |      |     |     | .88 | .22  | .72  | .05 | .08 | .03 |     | .29 |     |     |     |     | .05  | 6.00  |
| Beaver Falls\|\|\| | Beaver         | .01          | .02 | .01 | T.  |     |     |    | .74 | .30  | .01 | T.  | T.  | .20 | 1.60 | 1.90 | T.   |     |     | T.  | .57  | .34  | .77 | .06 | .03 | .02 | T.  | .23 | T.  |     |     | .05  | 6.80  |
| Bradford          | Allegheny      | .05          | .02 |     |     |     |     |    | .27 | .24  | .05 | .03 |     | .02 | .05  | .20  | .55  |     |     | .06 | .08  | .02  | .88 | .04 |     | .18 | .12 |     | .03 |     |     | .21  | 3.10  |
| Brookville        | do             |              | .20 |     | .05 |     |     |    | .68 | .23  |     |     |     | .09 | 1.83 | .05  |      |     |     | .02 | .45  | .75  | .08 | .07 |     | .62 |     |     |     |     | .17 | 5.29 |       |
| Butler            | Ohio           |              |     |     |     |     |     |    |     |      |     |     |     |     |      |      |      |     |     |     |      |      |     |     |     |     |     |     |     |     |     |      |       |
| Chambersville     | Allegheny      | .01          | .01 | T.  |     |     |     |    | .12 | .47  | .14 | .01 | T.  |     | 1.23 | .97  | 1.31 |     |     | .18 | .64  | .23  | .48 | .03 | .09 | T.  | .23 | .18 |     |     |     | .24  | 6.57  |
| Clairton          | Monongahela    | T.           | .01 | T.  | T.  |     |     |    | .50 | .06  | T.  | T.  | T.  |     | 1.85 | .65  | .18  |     |     | .46 | .56  | .30  | .70 | .30 | .06 | T.  | .15 | .05 |     |     | .03 | .06  | 5.92  |
| Claysville        | Ohio           |              | .02 | .04 | .03 |     |     |    | .51 | .05  | .18 | T.  | T.  |     | 1.45 | .45  | 1.45 |     |     | .43 | .79  | .15  | .56 | .04 | .07 | T.  | .18 | .13 |     |     | T.  | .11  | 6.64  |
| Clymer††          | Conemaugh      |              |     |     |     |     |     |    | .60 |      |     |     |     |     | .92  | 3.36 | T.   |     |     | T.  |      | .54  | .10 | .30 | T.  | .10 |     |     | .14 |     | .20 |      | 6.26  |
| Confluence\|\|\| | Youghiogheny   | .06          | .15 | .05 | T.  |     |     |    | .07 | .26  | .35 | .20 |     |     | T.   | 2.42 | .86  | .10 |     |     | 1.36 | .33  | .40 | .04 | .05 | .15 | T.  | .61 | T.  |     |     | .05  | 7.51  |
| Corry             | Allegheny      | T.           | .03 |     | .19 |     |     |    | .48 | .21  | .17 |     | .03 | .19 | .79  | .13  |      |     |     | T.  | .04  | .17  | .03 | .37 | T.  | .03 | .49 | .23 |     |     |     | .31  | 3.79  |
| Coudersport       | Allegheny      | .01          | .01 | .01 |     |     |     |    | .76 | .21  |     | .01 | .02 | .01 | .32  | .74  | .05  |     |     | .25 | .18  | .36  | .21 | .01 |     |     | .34 | .08 | .02 |     |     | .05  | 3.73  |
| Derry             | Conemaugh      | T.           |     |     |     |     |     |    | .47 | .10  | .06 | T.  |     |     | 1.43 | .33  | 1.22 |     |     | .35 | .66  | .22  | .40 | T.  | .10 | T.  | .28 | .18 |     |     |     | .18  | 5.98  |
| Donora\|\|\| | Monongahela    | T.           | .01 | T.  |     |     |     |    | .07 | .53  | .13 |     |     | .53 | 1.24 | 2.14 |      |     | .25 | .79 | .12  | .63  | T.  | .07 | T.  | .17 | .16 |     |     |     |     | .13  | 6.97  |
| Ebensburg         | Conemaugh      | T.           | T.  | T.  |     |     |     |    | .33 | .20  | .10 | .12 | T.  |     | .93  | 2.03 | .90  |     |     | .24 | .86  | .28  | .18 | .26 | .09 | .22 |     |     |     |     |     | .06  | 6.80  |
| Elk Lick          | Youghiogheny   | .10          | .05 | .10 |     |     |     |    | .50 |      | .40 |     | .20 |     | 1.80 | 1.60 | .50  |     |     | .25 | .95  | .50  |     | .10 | .20 |     | .40 | .40 |     |     |     | .90  | 5.95  |
| Franklin\|\|\| | Allegheny      | T.           | T.  | .04 |     |     |     |    | .64 | .52  | .04 | T.  | T.  |     | .21  | .81  | .36  | T.  |     |     | .55  | .36  | .51 | .08 | T.  | T.  |     | .73 | T.  |     |     | .08  | 4.93  |
| Greensburg        | Monongahela    | .03          | .12 | T.  | T.  |     |     |    | .07 | .42  | .23 | .08 | T.  |     | .03  | 2.36 | .99  | .03 |     |     | 1.25 | .32  | .85 | .03 | .03 | .04 | T.  | .40 | T.  |     |     | .07  | 7.35  |
| Greensburg        | Youghiogheny   | .05          | .01 | .01 |     |     |     |    | .42 | .12  | .10 | .01 | T.  | T.  | 1.30 | .43  | 1.09 |     |     | .35 | .73  | .20  | .51 | .01 | .12 | .02 | .29 | .12 |     |     |     | .20  | 6.09  |
| Greenville        | Beaver         | T.           | T.  | T.  |     |     |     |    | .05 | .72  | .30 | .02 | T.  | .04 | .30  | .83  | .59  |     |     | .32 | .32  | .15  | .51 | .07 |     | .50 | .30 |     |     |     |     | .11  | 5.13  |
| Grove City        | do             | .25          | .08 | .07 |     |     |     |    | .08 | .55  | .20 | .14 |     | .02 | .76  | 1.01 | .43  |     |     | .16 | .26  | .22  | .50 | .03 | .01 | .13 | .33 |     |     |     |     | .23  | 5.46  |
| Herr's Isl. Dam\|\|\| | Ohio           | T.           | T.  | T.  | T.  |     |     |    | .70 | .27  | .02 | T.  | T.  |     | .18  | 1.39 | .98  |     |     | T.  | .87  | .23  | .85 | .02 | .04 | .03 | T.  | .20 | .10 | T.  |     | .06  | 5.94  |
| Ingram            | do             | T.           | .02 | .03 | T.  | T.  |     |    | .65 | .24  | .18 | .01 | T.  | T.  | 1.40 | 1.16 | .96  |     |     | .36 | .72  | .43  | .59 | .02 | .09 | .01 | .23 | .12 |     |     | .03 | .09  | 6.34  |
| Irwin             | Monongahela    | T.           | T.  | T.  |     |     |     |    | .35 | .15  | .06 | T.  |     |     | 1.50 | .39  | .75  |     |     | .32 | .75  | .17  | .37 | T.  | .07 | T.  | .30 | .15 |     |     |     | .27  | 5.60  |
| Johnstown         | Conemaugh      | T.           | .03 | .08 | .07 | .03 |     |    | .45 | .17  | .10 | .13 | T.  | T.  | .97  | 1.19 | .60  |     |     | .34 | 1.13 | .20  | .17 | .16 | .13 | .02 | .63 | .20 |     |     | .29 | 7.09 |       |
| Kane (near) ††    | Allegheny      | T.           | T.  | .04 |     |     |     |    | .08 | .86  | .47 | .09 |     | .13 | .20  | .55  | .62  |     |     | .04 | .42  | .22  | .69 | .11 |     | .03 | .84 | .36 |     |     |     | .38  | 5.63  |
| Kegonsa           | Youghiogheny   | .03          | .07 | .02 | .02 |     | .02 |    | .28 | .33  | .04 | T.  | T.  |     | 1.77 | 1.18 | .76  |     |     | .76 | .18  | .39  | .07 | T.  | .16 | .02 | .47 | .02 |     |     | .02 | .12  | 6.14  |
| Lake Lynn\|\|\| | Monongahela    |              | .03 | .22 | .04 |     |     |    | .03 | .27  | .25 | .05 |     |     | .10  | 2.55 | .75  | .11 |     |     | 1.03 | .22  | .70 | .03 | .10 | .08 | .35 | T.  |     |     | .02 | .08  | 7.01  |
| Linesville\|\|\| | Beaver         |              | .07 | .01 | T.  |     |     |    | .67 | .35  |     |     | .06 |     | .10  | 1.07 | .28  |     |     | T.  | .27  |      | .27 | .02 | T.  |     | .27 |     |     |     | .04 | .04  | 3.44  |
| Lock No. 2\|\|\| | Ohio           |              | .01 | T.  |     |     |     |    | .57 | .35  |     |     |     |     | .30  | 1.01 | 1.02 |     |     | T.  | .91  | T.   | .59 | .03 | .06 | .08 | T.  | .31 | .02 |     |     | .06  | 5.35  |
| Lock No. 4\|\|\| | Monongahela    | T.           | .01 | .02 | T.  |     |     |    | .02 | .56  | .20 | .01 |     |     | .13  | 1.52 | 1.55 | T.  |     | T.  | 1.07 | .26  | .68 | .02 | .01 | .04 | T.  | .36 | .06 |     |     | .06  | 6.58  |
| Lock No. 5        | Allegheny      | T.           |     | T.  | .02 |     |     |    | .48 | .15  | T.  | T.  | T.  |     | .20  | 1.97 | 1.37 |     |     |     | .80  | .28  | .93 | .05 | .07 | .03 | T.  | .44 | .01 | T.  |     | .04  | 6.84  |
| Lycippus          | Conemaugh      | .06          |     |     |     |     |     |    | .50 | .30  | .14 | .06 |     |     | 1.56 | .65  | 1.67 |     |     | .31 | .97  | .25  | .41 |     | .21 |     | .90 |     |     |     | .20 | 8.68 |       |
| McKeesport\|\|\| | Monongahela    | T.           | T.  | T.  |     |     |     |    | .56 | .12  | T.  |     |     |     | .25  | 1.55 | 1.32 |     |     | T.  | 1.04 | .18  | .95 | T.  | .04 | .05 | .08 | .30 | .02 |     |     | .08  | 6.54  |
| Meadville         | Allegheny      |              | .03 | .03 |     |     |     |    | .11 | .64  | .28 | .04 | .04 | .07 | .35  | .75  | .24  |     |     | .05 | .24  | .12  | .29 | .16 |     | .22 | .39 |     |     |     | .21 | 4.26 |       |
| Mosgrove          | do             | T.           | T.  | T.  | T.  |     |     |    | .64 | .25  | T.  | T.  | T.  | T.  | .81  | 1.36 | 1.14 |     |     |     | .42  | .32  | .93 | .08 | .02 | .01 | T.  | .45 | T.  |     |     | .08  | 6.01  |
| Mount Lebanon     | Ohio           | .01          | .03 | .01 | T.  |     |     |    | .54 | .31  | .02 | .02 | T.  |     | 1.60 | .84  | .51  |     |     | .35 | .64  | .53  | .56 | .04 | .10 | T.  | .18 | .07 |     |     | .03 | .10  | 6.49  |
| Natrona\|\|\| | Allegheny      |              | .02 |     | .03 | .01 |     |    | .45 | .25  | .05 | T.  | T.  |     | .24  | 1.88 | 1.45 |     |     |     | .75  | .20  | .86 | .03 | .06 | .03 | T.  | .28 | .02 |     |     | .05  | 6.66  |
| New Castle\|\|\| | Beaver         | .01          | .01 | .04 | T.  |     |     |    | .77 | .16  | .01 | .01 | .01 | .01 | .33  | 1.54 | .73  | .01 |     |     | .01  | .42  | .17 | .49 | .03 | .07 | T.  | .33 |     |     |     | .08  | 5.23  |
| Newell            | Monongahela    |              |     |     |     |     |     |    | .57 | 1.06 | .94 |     | .50 |     | .57  | 1.06 | .94  |     |     |     | .30  | 1.02 | .32 | .58 |     |     |     | .38 |     |     |     | .20  | 5.87  |
| Parkers Landing\|\|\| | Allegheny      |              | T.  | T.  | T.  |     |     |    | .64 | .35  | T.  | T.  | T.  |     | .28  | 1.56 | 1.22 | T.  |     |     | .37  | .18  | .90 | .10 | .03 | T.  | T.  | .52 | T.  |     |     | .12  | 6.27  |
| Pennline\|\|\|†† | Beaver         | .01          | .06 | .03 | T.  |     |     |    | .67 | .13  | .01 | .02 | .05 |     | .09  | 1.12 | .18  | T.  |     |     | .39  | .08  | .27 | .06 | .01 | .02 |     | .36 | T.  |     | .06 | .03  | 3.65  |
| Pittsburgh***     | Ohio           | .01          | T.  | T.  |     |     |     |    | .66 | .34  | .01 | .01 | T.  | T.  | 1.33 | .61  | .31  |     |     | .36 | .65  | .54  | .46 | .02 | .10 | T.  | .22 | .06 |     |     | .02 | .06  | 5.77  |
| Punxsutawney\|\|\| | Allegheny      | T.           | T.  | T.  | T.  |     |     |    | .64 | T.   | T.  | T.  |     |     | .32  | 1.16 | 1.04 | T.  |     |     | .84  | .19  | .62 | T.  | .06 | T.  | .24 | .32 | T.  |     |     |      | 5.34  |
| Ridgway           | do             | T.           | .04 | T.  | T.  |     |     |    | .65 | .35  | T.  |     | .10 |     | .02  | .53  | .87  | .02 |     |     | .38  | .26  | .61 | .16 | T.  | .02 | .02 | .40 | .05 | .05 |     | .12  | 4.65  |
| Saltsburg\|\|\| | Conemaugh      | .01          |     | .01 | T.  |     |     |    | .45 | .15  | .02 |     | T.  |     | .05  | 1.43 | .95  | .02 |     |     | .90  | .20  | .40 | .05 | .06 | .08 |     | .43 | .01 |     |     | .05  | 5.27  |
| Sharon\|\|\| | Beaver         | .02          |     |     |     |     |     |    | .70 | .03  |     | T.  | T.  |     | .20  | 1.43 | .53  |     |     |     | .49  | .11  | .41 | T.  | T.  |     | .39 |     |     |     | T.  | .10  | 4.41  |
| Smethport         | Allegheny      | T.           | T.  | T.  | T.  |     |     |    | .77 | .10  | .02 | T.  | T.  |     | .01  | .35  | .55  | T.  |     |     | .10  | .26  | .43 | .10 | T.  | T.  |     | .35 | T.  |     |     | T.   | 3.04  |
| Somers            | Youghiogheny   | T.           | .03 | .04 | .02 |     |     |    | .34 | .28  | .07 | .14 |     |     | 1.28 | .82  | .88  |     |     | .39 | .92  | .32  | .25 | T.  | .14 | T.  | .27 | .34 |     |     |     | .18  | 6.71  |
| Springdale\|\|\| | Allegheny      | .02          | T.  | .02 | .01 |     |     |    | .58 | .31  | .03 |     | T.  |     | .09  | 1.16 | 1.07 | .02 |     |     | .33  | .17  | .84 | .05 | .05 | .03 | T.  | .35 | T.  |     |     | .04  | 5.67  |
| Uniontown         | Monongahela    | .12          | .06 | T.  |     |     |     |    | .30 | .18  | .11 | .05 |     |     | 1.47 | .58  | 1.30 |     |     | .43 | .55  | .21  | .70 | .02 | .11 | .02 | .28 | .22 |     |     | T.  | .22  | 6.93  |
| Unity Reservoir†† | Youghiogheny   | T.           | T.  | T.  |     |     |     |    | .40 | .30  | .15 | T.  | T.  |     | 1.32 | .52  |      |     |     |     |      |      |     |     |     |     |     |     |     |     |     |      |       |



Daily Temperatures for March, 1933

| Stations           | 1            | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |      |
|--------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Allentown.....     | Maximum..... | 44    | 43    | 45    | 43    | 40    | 44    | 45    | 47    | 44    | 34    | 31    | 44    | 42    | 51    | 41    | 59    | 48    | 34    | 35    | 44    | 40    | 37    | 41    | 44    | 39    | 46    | 45    | 48    | 56    | 44    | 43.2  |      |
|                    | Minimum..... | 29    | 30    | 32    | 32    | 31    | 23    | 26    | 34    | 34    | 19    | 15    | 18    | 28    | 35    | 35    | 24    | 21    | 34    | 33    | 32    | 33    | 34    | 31    | 30    | 23    | 31    | 33    | 32    | 32    | 33    | 29.4  |      |
| Altoona.....       | Maximum..... | 40    | 35    | 36    | 35    | 41    | 48    | 44    | 40    | 39    | 34    | 30    | 43    | 52    | 73    | 52    | 47    | 58    | 53    | 42    | 35    | 41    | 34    | 34    | 35    | 31    | 34    | 45    | 42    | 45    | 55    | 47    | 42.6 |
|                    | Minimum..... | 31    | 26    | 29    | 27    | 24    | 18    | 32    | 36    | 27    | 9     | 10    | 23    | 34    | 45    | 35    | 20    | 29    | 34    | 34    | 31    | 32    | 27    | 25    | 17    | 26    | 23    | 30    | 25    | 22    | 39    | 27.2  |      |
| Bedford.....       | Maximum..... | 43    | 36    | 37    | 36    | 41    | 52    | 48    | 47    | 43    | 37    | 34    | 49    | 51    | 76    | 71    | 50    | 61    | 60    | 43    | 37    | 42    | 37    | 37    | 36    | 34    | 36    | 48    | 46    | 47    | 59    | 57    | 46.2 |
|                    | Minimum..... | 33    | 28    | 32    | 30    | 27    | 15    | 30    | 37    | 29    | 12    | 12    | 26    | 38    | 48    | 33    | 25    | 28    | 32    | 36    | 33    | 36    | 31    | 28    | 27    | 18    | 29    | 27    | 30    | 28    | 21    | 42    | 29.1 |
| Bellefonte.....    | Maximum..... | 42    | 40    | 37    | 37    | 41    | 47    | 46    | 42    | 37    | 23    | 29    | 42    | 48    | 71    | 51    | 43    | 58    | 44    | 41    | 37    | 42    | 34    | 34    | 37    | 37    | 34    | 45    | 41    | 46    | 56    | 47    | 42.2 |
|                    | Minimum..... | 30    | 29    | 31    | 29    | 24    | 15    | 30    | 36    | 23    | 11    | 10    | 25    | 29    | 43    | 26    | 21    | 28    | 29    | 32    | 30    | 29    | 29    | 24    | 20    | 28    | 24    | 29    | 28    | 22    | 39    | 26.9  |      |
| Brookville.....    | Maximum..... | 40    | 38    | 38    | 40    | 42    | 52    | 45    | 43    | 35    | 26    | 30    | 40    | 52    | 70    | 44    | 43    | 60    | 45    | 38    | 42    | 36    | 35    | 36    | 36    | 41    | 47    | 38    | 47    | 60    | 57    | 43.3  |      |
|                    | Minimum..... | 24    | 21    | 23    | 18    | 16    | 8     | 14    | 29    | 24    | 8     | 3     | 5     | 24    | 32    | 19    | 13    | 16    | 26    | 29    | 33    | 28    | 27    | 24    | 11    | 25    | 9     | 19    | 26    | 17    | 27    | 41    | 20.6 |
| Butler.....        | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                    | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Carlisle.....      | Maximum..... | 50    | 43    | 46    | 45    | 48    | 51    | 49    | 50    | 50    | 44    | 34    | 48    | 41    | 61    | 61    | 47    | 65    | 60    | 46    | 38    | 46    | 45    | 39    | 44    | 40    | 40    | 51    | 51    | 52    | 60    | 56    | 48.4 |
|                    | Minimum..... | 30    | 32    | 35    | 34    | 30    | 18    | 30    | 38    | 33    | 18    | 15    | 22    | 29    | 39    | 38    | 25    | 29    | 32    | 35    | 32    | 35    | 34    | 32    | 30    | 21    | 30    | 33    | 29    | 31    | 25    | 40    | 30.1 |
| Catawissa.....     | Maximum..... | 47    | 41    | 44    | 40    | 45    | 48    | 42    | 50    | 46    | 36    | 32    | 44    | 45    | 70    | 62    | 45    | 62    | 53    | 39    | 43    | 44    | 39    | 40    | 44    | 40    | 50    | 47    | 50    | 57    | 56    | 46.5  |      |
|                    | Minimum..... | 31    | 30    | 34    | 31    | 28    | 18    | 34    | 40    | 32    | 11    | 12    | 25    | 32    | 40    | 33    | 23    | 35    | 31    | 32    | 33    | 33    | 33    | 32    | 28    | 25    | 32    | 35    | 32    | 28    | 25    | 35    | 29.8 |
| Chambersburg.....  | Maximum..... | 46    | 40    | 43    | 45    | 47    | 50    | 41    | 46    | 48    | 40    | 35    | 50    | 44    | 75    | 61    | 47    | 67    | 57    | 44    | 38    | 48    | 41    | 38    | 41    | 36    | 41    | 51    | 50    | 52    | 60    | 52    | 47.5 |
|                    | Minimum..... | 33    | 30    | 34    | 32    | 28    | 19    | 31    | 37    | 34    | 16    | 15    | 24    | 34    | 38    | 38    | 26    | 29    | 34    | 33    | 33    | 34    | 33    | 30    | 29    | 22    | 30    | 29    | 32    | 30    | 25    | 40    | 30.1 |
| Chambersville..... | Maximum..... | 43    | 35    | 37    | 35    | 41    | 55    | 54    | 42    | 40    | 34    | 29    | 44    | 55    | 73    | 57    | 44    | 58    | 60    | 46    | 43    | 43    | 36    | 37    | 37    | 37    | 37    | 43    | 43    | 49    | 59    | 62    | 45.4 |
|                    | Minimum..... | 28    | 25    | 29    | 27    | 22    | 10    | 35    | 31    | 25    | 9     | 6     | 21    | 36    | 49    | 28    | 20    | 26    | 29    | 38    | 34    | 32    | 27    | 27    | 25    | 18    | 28    | 17    | 30    | 25    | 19    | 43    | 26.4 |
| Claysville.....    | Maximum..... | 45    | 34    | 38    | 35    | 44    | 61    | 59    | 45    | 45    | 35    | 32    | 53    | 56    | 72    | 68    | 49    | 62    | 60    | 58    | 59    | 55    | 35    | 34    | 40    | 40    | 49    | 50    | 51    | 61    | 68    | 49.3  |      |
|                    | Minimum..... | 28    | 27    | 30    | 28    | 26    | 17    | 36    | 30    | 26    | 10    | 7     | 20    | 36    | 52    | 30    | 20    | 27    | 38    | 46    | 42    | 30    | 28    | 28    | 27    | 25    | 28    | 21    | 32    | 21    | 26    | 47    | 28.7 |
| Clearfield.....    | Maximum..... | 42    | 42    | 38    | 39    | 46    | 54    | 48    | 40    | 38    | 32    | 32    | 41    | 50    | 70    | 58    | 46    | 63    | 58    | 43    | 37    | 42    | 35    | 39    | 40    | 38    | 37    | 49    | 41    | 50    | 62    | 58    | 45.4 |
|                    | Minimum..... | 32    | 27    | 31    | 28    | 25    | 13    | 30    | 35    | 25    | 8     | 6     | 28    | 36    | 30    | 16    | 25    | 27    | 32    | 32    | 33    | 28    | 29    | 25    | 18    | 28    | 22    | 29    | 27    | 20    | 38    | 26.5  |      |
| Coatesville.....   | Maximum..... | 48    | 41    | 46    | 45    | 42    | 47    | 53    | 54    | 49    | 38    | 31    | 45    | 51    | 55    | 46    | 42    | 61    | 53    | 41    | 38    | 46    | 43    | 39    | 43    | 43    | 48    | 52    | 48    | 56    | 48    | 46.3  |      |
|                    | Minimum..... | 30    | 30    | 32    | 32    | 30    | 22    | 22    | 42    | 36    | 19    | 15    | 22    | 31    | 37    | 34    | 26    | 31    | 36    | 33    | 32    | 35    | 34    | 30    | 33    | 26    | 31    | 33    | 31    | 30    | 30    | 37    | 30.4 |
| Corry.....         | Maximum..... | 35    | 37    | 36    | 30    | 31    | 48    | 47    | 40    | 32    | 24    | 26    | 40    | 45    | 64    | 59    | 42    | 56    | 53    | 44    | 43    | 38    | 31    | 33    | 35    | 36    | 32    | 43    | 35    | 42    | 56    | 55    | 40.9 |
|                    | Minimum..... | 26    | 25    | 26    | 20    | 22    | 14    | 30    | 28    | 17    | 9     | -1    | 20    | 36    | 42    | 19    | 10    | 26    | 28    | 35    | 35    | 30    | 27    | 25    | 21    | 24    | 20    | 12    | 24    | 23    | 19    | 42    | 23.6 |
| Coudersport.....   | Maximum..... | 39    | 36    | 32    | 35    | 33    | 44    | 46    | 39    | 35    | 26    | 25    | 33    | 45    | 64    | 60    | 40    | 56    | 56    | 44    | 36    | 42    | 35    | 32    | 32    | 39    | 36    | 45    | 44    | 41    | 54    | 55    | 41.3 |
|                    | Minimum..... | 24    | 24    | 28    | 25    | 19    | 6     | 26    | 32    | 21    | 5     | 3     | 18    | 30    | 41    | 25    | 7     | 21    | 24    | 31    | 30    | 32    | 25    | 25    | 22    | 13    | 25    | 25    | 26    | 24    | 15    | 33    | 22.7 |
| Emporium.....      | Maximum..... | 38    | 39    | 36    | 37    | 38    | 48    | 42    | 42    | 37    | 24    | 29    | 36    | 41    | 65    | 49    | 42    | 58    | 46    | 43    | 40    | 45    | 35    | 37    | 39    | 38    | 45    | 41    | 45    | 55    | 50    | 41.8  |      |
|                    | Minimum..... | 28    | 28    | 33    | 30    | 25    | 13    | 28    | 35    | 23    | 10    | 1     | 23    | 29    | 40    | 27    | 16    | 25    | 28    | 36    | 35    | 32    | 30    | 30    | 28    | 18    | 30    | 25    | 30    | 29    | 20    | 38    | 26.5 |
| Erie.....          | Maximum..... | 36    | 34    | 36    | 35    | 33    | 42    | 41    | 38    | 30    | 17    | 26    | 47    | 50    | 58    | 38    | 44    | 48    | 40    | 37    | 48    | 44    | 38    | 33    | 33    | 35    | 33    | 42    | 39    | 36    | 56    | 62    | 39.5 |
|                    | Minimum..... | 29    | 28    | 32    | 27    | 24    | 21    | 31    | 30    | 15    | 11    | 10    | 25    | 39    | 34    | 23    | 20    | 37    | 30    | 29    | 36    | 30    | 29    | 28    | 26    | 26    | 28    | 28    | 28    | 29    | 46    | 27.7  |      |
| Franklin.....      | Maximum..... | 35    | 35    | 36    | 37    | 39    | 53    | 49    | 42    | 32    | 24    | 28    | 43    | 53    | 64    | 36    | 40    | 58    | 47    | 42    | 43    | 42    | 35    | 35    | 33    | 36    | 33    | 48    | 33    | 45    | 58    | 62    | 41.9 |
|                    | Minimum..... | 22    | 27    | 27    | 25    | 11    | 12    | 30    | 24    | 8     | 1     | 4     | 27    | 36    | 32    | 16    | 17    | 26    | 31    | 35    | 35    | 28    | 28    | 24    | 25    | 26    | 14    | 17    | 26    | 21    | 23    | 22    | 22.7 |
| Freeland.....      | Maximum..... | 37    | 32    | 37    | 33    | 32    | 46    | 38    | 43    | 36    | 29    | 27    | 37    | 46    | 65    | 48    | 40    | 55    | 53    | 37    | 31    | 35    | 34    | 32    | 33    | 40    | 32    | 43    | 39    | 40    | 48    | 43    | 39.4 |
|                    | Minimum..... | 24    | 22    | 25    | 24    | 21    | 14    | 28    | 32    | 24    | 9     | 5     | 19    | 31    | 32    | 28    | 15    | 29    | 34    | 27    | 27    | 30    | 25    | 26    | 21    | 18    | 24    | 27    | 28    | 24    | 24    | 35    | 24.3 |
| Gettysburg.....    | Maximum..... | 48    | 42    | 43    | 43    | 46    | 50    | 46    | 49    | 48    | 46    | 36    | 46    | 45    | 71    | 67    | 46    | 65    | 62    | 47    | 39    | 47    | 45    | 39    | 40    | 39    | 41    | 48    | 51    | 49    | 59    | 54    | 48.3 |
|                    | Minimum..... | 34    | 31    | 35    | 33    | 29    | 23    | 31    | 39    | 34    | 18    | 15    | 21    | 32    | 38    | 26    | 31    | 36    | 35    | 32    | 35    | 34    | 30    | 31    | 25    | 29    | 28    | 33    | 29    | 29    | 41    | 30.5  |      |
| Greensburg.....    | Maximum..... | 39    | 34    | 36    | 38    | 42    | 61    | 54    | 45    | 42    | 35    | 30    | 48    | 55    | 73    | 48    | 47    | 59    | 55    | 50    | 51    | 44    | 34    | 36    | 34    | 38    | 39    | 48    | 44    | 47    | 64    | 62    | 46.5 |
|                    | Minimum..... | 30    | 27    | 31    | 28    | 26    | 18    | 40    | 31    | 28    | 11    | 10    | 23    | 38    | 52    | 30    | 23    | 30    | 36    | 41    | 38    | 31    | 29    | 28    | 27    | 22    | 29    | 22    | 31    | 25    | 25    | 49    | 29.3 |
| Grove City.....    | Maximum..... | 53    | 42    | 35    | 35    | 40    | 51    | 50    | 50    | 40    | 34    | 31    | 43    | 50    | 60    | 58    | 41    | 55    | 55    | 44    | 44    | 40    | 48    | 36    | 35    | 34    | 34    | 42    | 42    | 46    | 57    | 68    | 44.8 |
|                    | Minimum..... | 25    | 25    | 19    | 27    | 19    | 19    | 39    | 30    | 25    | 11    | 15    | 20    | 39    | 42    | 27    | 21    | 31    | 38    | 39    | 35    | 29    | 27    | 28    | 25    | 29    | 26    | 22    | 28    | 26    | 26    | 44    | 27.6 |
| Hamburg.....       | Maximum..... | 47    | 43    | 40    | 41    | 40    | 44    | 42    | 47    | 40    | 33    | 29    | 42    | 45    | 53    | 55    | 49    | 59    | 58    | 37    | 36    | 45    | 45    | 36    | 39    | 44    | 42    | 48    | 49    | 44    | 56    | 56    | 44.6 |
|                    | Minimum..... | 35    | 31    | 26    | 24    | 25    | 20    | 34    | 39    | 30    | 18    | 14    | 21    | 38    | 37    | 24    | 30    | 38    | 24    | 30    | 32    | 34    | 31    | 31    | 30    | 22    | 30    | 31    | 32    | 28    | 33    | 39    | 29.2 |
| Harrisburg.....    | Maximum..... | 46    | 41    | 44    | 42    | 46    | 47    | 44    | 48    | 46    | 34    | 33    | 46    | 42    | 59    | 46    | 43    | 63    | 48    | 41    | 37    | 46    | 40    | 38    | 41    | 40    | 40    | 50    | 48    | 49    | 58    | 47    | 44.9 |
|                    | Minimum..... | 34    | 32    | 36    | 35    | 31    | 28    | 34    | 42    | 33    | 17    | 17    | 27    | 35    | 38    | 32    | 28    | 35    | 38    | 34    | 33    | 35    | 35    | 31    | 31    | 30    | 31    | 35    | 34    | 32    | 34    | 40    | 32.5 |
| Hawley.....        | Maximum..... | 40    | 40    | 38    | 38    | 34    | 39    | 38    | 41    | 39    | 34    | 29    | 41    | 48    | 43    | 42    | 41    | 58    | 56    | 40    | 32    | 36    | 39    | 36    | 39    | 44    | 38    | 45    | 42    | 40    | 50    | 47    | 40.9 |
|                    | Minimum..... | 28    | 25    | 29    | 26    | 23    | 15    | 25    | 34    | 30    | 13    | 9     | 21    | 27    | 32    | 30    | 20    | 27    | 24    | 28    | 27    | 31    | 30    | 30    | 20    | 14    | 30    | 30    | 24    | 28    | 23    | 23    |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

32

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXVIII.

APRIL, 1933.

No. 4.

GENERAL SUMMARY.

Temperatures averaged above the April normal, chiefly due to warm periods during the first and third weeks. However, frosts and freezing occurred later than usual during cold periods at the beginning and ending of the fourth week. The lowest temperature for the month was recorded at most places on the 23d, with freezing in practically all parts of the State. Freezing occurred in about three-fourths of the State on the 27th and 28th, after which the temperature rose sharply, and the highest for the month was generally recorded on the 29th. Frost damage was confined chiefly to orchard fruits, of which peaches suffered most. They were generally in full bloom on the 23d, and on level or valley lands the fruit was nearly all killed. In most regions the freezing lasted only a few hours, and where topography favored good air drainage much of the fruit survived. Early varieties of apples suffered considerably, while late varieties were generally unharmed. Some garden vegetables were nipped, but such damage was not extensive. The rainfall averaged about one-third more than the April normal, and most of it occurred prior to the 20th. During that period rains occurred almost daily, and kept the fields too muddy for seeding and planting. After the 20th the soil dried out very rapidly without enough rain to prevent its becoming hard and cloddy. Farmers rushed seeding for a time, but were compelled to slow up before the end of the month when oats seeding was about two-thirds done. Normally it should have been finished near the middle of the month. Corn planting was getting under way, in good season, at the close of the month. Truck gardening was seriously delayed, and was reported as being two weeks or more late. The accumulated excess of precipitation for March and April averaged nearly three inches despite a deficiency in the northern tier of counties. It was needed to partly make up a shortage of deep soil water that has existed for more than two years. The character of the rains was generally favorable for such a purpose as they were moderate and steady, and the run-off was comparatively light. Fairly heavy snows occurred in the northeastern counties with nine or ten inches in portions of Wayne County. The snow was moist and melted quickly, and there was little in the remainder of the State excepting Somerset County where there was about two inches.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 86 stations, was 50.9°, which is 2.2° above the April nor-

mal. The highest monthly mean was 55.6°, at Marcus Hook, and the lowest was 42.7° at Gouldsboro. Extremes for the month ranged from a maximum of 89° at Hyndman on the 29th, to a minimum of 15°, at Montrose on the 22d and at Kane (near) on the 23d. The greatest daily range in temperature was 51° at Lykens on the 24th.

PRECIPITATION.

The average precipitation for the State, as determined from the observations taken at 144 stations, was 4.49 inches, which is 1.05 inches above the normal for the month. The greatest monthly total was 6.20 inches at Hamburg, while the least, 2.19 inches, was reported from Warren. The greatest amount recorded in any 24 consecutive hours was 2.50 inches at Hamburg on the 17th.

Snowfall for the State averaged 0.5 inch, which is 1.8 inches less than the normal. The greatest monthly snowfall was 10.2 inches at Pleasant Mount, and the greatest snowfall for 24 hours was 9.0 inches and fell at Pleasant Mount and Freeland on the 12th.

COMPARATIVE DATA FOR APRIL

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	.01 inch or more prec	Clear	Partly cloudy	Cloudy
1888.....	47.2	-1.5	92	12	2.52	-0.92	4.23	0.99	1.3	8	14	10	6
1889.....	49.7	+1.0	88	14	4.50	+1.06	8.15	2.09	0.9	11	11	8	11
1890.....	48.6	+0.1	85	12	3.46	+0.02	5.50	1.75	0.4	10	14	8	8
1891.....	49.8	+1.1	87	11	2.08	-1.36	3.54	1.12	1.2	8	13	9	8
1892.....	46.9	-1.8	85	14	2.04	-1.40	4.43	0.61	1.1	10	10	10	10
1893.....	47.7	-1.0	85	16	4.74	+1.30	6.91	2.95	0.6	14	7	10	13
1894.....	48.0	-0.7	83	5	3.62	+0.18	10.00	1.69	14.7	11	11	8	11
1895.....	49.2	+0.5	90	5	3.76	+0.32	7.09	0.79	0.2	10	10	8	12
1896.....	53.0	+4.3	97	4	1.75	-1.69	3.39	0.20	0.9	8	10	10	10
1897.....	49.0	+0.3	92	12	3.30	-0.14	4.63	1.20	0.3	10	12	9	9
1898.....	45.6	-3.1	84	4	2.93	-0.51	5.34	1.36	2.5	12	9	8	13
1899.....	50.2	+1.5	92	2	1.76	-1.68	3.25	0.70	0.5	6	15	9	6
1900.....	49.2	+0.5	90	13	1.57	-1.87	2.80	0.60	0.9	8	14	8	8
1901.....	47.2	-1.5	95	10	5.41	+1.97	9.18	1.46	4.9	11	9	5	16
1902.....	48.0	-0.7	91	20	3.56	+0.12	7.14	1.34	3.0	9	8	10	12
1903.....	48.8	+0.1	90	12	3.53	+0.09	4.93	2.16	T.	10	11	7	12
1904.....	44.7	-4.0	86	9	3.45	+0.01	6.42	1.34	1.0	13	8	8	14
1905.....	48.4	-0.3	84	16	2.84	-0.60	4.74	1.39	2.8	12	9	11	10
1906.....	50.0	+1.3	89	12	3.13	-0.31	6.96	0.75	0.6	9	14	7	8
1907.....	43.6	-5.1	84	8	2.64	-0.80	4.42	1.02	4.0	11	10	7	13
1908.....	49.8	+1.1	89	0	3.51	+0.07	6.31	1.85	1.0	12	12	8	10
1909.....	48.5	-0.2	87	8	5.39	+1.95	8.42	2.67	2.6	13	10	9	11
1910.....	52.6	+3.9	89	13	5.07	+1.63	8.50	2.21	0.6	13	10	9	11
1911.....	46.2	-2.5	84	6	3.79	+0.35	5.85	1.66	4.4	13	11	7	12
1912.....	50.2	+1.5	83	18	4.39	+0.95	7.31	2.41	1.6	15	10	7	13
1913.....	50.6	+1.9	90	17	3.82	+0.38	9.28	1.46	0.2	11	12	6	12
1914.....	47.3	-1.4	93	5	4.66	+1.22	7.50	1.90	1.1	14	10	8	12
1915.....	53.9	+5.2	98	15	1.92	-1.52	4.41	0.46	1.6	8	13	10	7
1916.....	48.0	-0.7	87	16	3.65	+0.21	7.40	1.65	5.6	14	9	9	12
1917.....	48.5	-0.2	87	14	2.08	-1.36	4.89	0.41	2.6	9	11	10	9
1918.....	48.2	-0.5	81	12	4.53	+1.09	8.83	1.84	10.8	14	10	9	11
1919.....	48.5	-0.2	90	6	2.70	-0.74	4.76	0.99	1.2	11	10	10	10
1920.....	46.0	-2.7	87	8	4.39	+0.95	11.34	2.44	3.0	16	9	9	12
1921.....	55.3	+6.6	96	10	3.11	-0.33	5.06	1.12	0.8	11	13	7	10
1922.....	50.1	+1.4	91	11	3.17	-0.27	6.10	1.28	0.4	12	12	9	9
1923.....	48.3	-0.4	89	-5	2.94	-0.50	5.89	1.00	1.9	9	14	8	8
1924.....	46.5	-2.2	82	6	4.15	+0.71	7.52	1.77	7.4	12	13	7	10
1925.....	51.3	+2.6	96	9	2.32	-1.12	4.89	0.93	0.5	10	15	7	8
1926.....	44.9	-3.8	84	9	2.03	-1.41	4.35	0.85	0.9	9	12	9	11
1927.....	47.7	-1.0	92	17	3.52	+0.08	5.59	1.65	1.0	13	12	7	11
1928.....	46.0	-2.7	88	11	5.50	+2.06	9.82	2.11	6.5	13	12	8	10
1929.....	51.4	+2.7	94	19	6.12	+2.68	8.94	3.31	1.1	15	9	8	13
1930.....	48.2	-0.5	92	9	2.71	-0.73	4.43	0.66	1.1	10	11	8	11
1931.....	48.4	-0.3	85	16	3.33	-0.11	5.93	1.00	2.5	10	14	6	10
1932.....	47.0	-1.7	86	14	1.71	-1.73	3.73	0.58	1.2	8	14	6	10
1933.....	50.9	+2.2	89	15	4.49	+1.05	6.20	2.19	0.5	13	12	8	10
Period.....	48.7	.....	98	-5	3.44	.....	11.34	0.20	2.3	11	11	8	11

Climatological Data for April, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	21	50.0	+1.5	81	29	28	23	38	4.71	+0.95	1.04	T.	13	19	5	6	ne.	John A. Frick.
Altoona.....	Blair.....	1,615	46	50.0	+2.0	81	29	22	23	43	4.56	+1.43	0.80	0	14	18	5	7	w.	F. E. Rooney.
Ardmore.....	Montgomery.....	350	1	52.8	+2.1	84	29	27	23	41	5.77	+1.72	2.04	0	11					H. G. Balderston.
Arendtsville.....	Adams.....	700	11	52.2	+2.9	82	29	28	23	39	6.11	+2.92	2.21	0	11	16	6	8	nw.	Dr. S. W. Frost.
Bedford.....	Bedford.....	1,060	1	52.0		86	29	26	13†	48	4.36		0.75	0	14	18	1	11	nw.	Charles C. Lee.
Bellefonte.....	Center.....	1,050	25	48.4	-2.1	78	29	23	23	38	4.53	+0.51	1.18	T.	15	7	1	15	se.	U. S. Weather Bureau.
Bethlehem.....	Northampton.....	364	48	52.8	+1.3	81	29†	30	23	34	5.17	+1.94	1.87	T.	12	14	3	13	e.	Lehigh University.
Carlisle.....	Cumberland.....	467	67	53.4	+1.3	86	29	26	23	45	5.66	+2.22	1.68	0	12	17	8	5	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	37	52.1	+1.7	86	29	25	23	38	3.83	+0.29	1.15	0.8	9	20	1	9		W. L. Gearhart.
Center Hall.....	Center.....	1,272	37																	S. W. Smith.
Chambersburg.....	Franklin.....	580	34	52.6	+2.5	84	29	27	23	44	4.92	+1.83	0.97	0	14	12	7	11	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	26	51.0	+3.1	84	29	22	23	47	4.00	+0.33	0.83	0	13	13	8	9	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	46	51.6	+1.0	79	29	29	23†	37	5.37	+1.60	1.95	0	11	13	3	14	sw.	Howard L. Pyle.
Colebrook.....	Lebanon.....	560	22	49.4	+0.3	81	29	24	23	41	4.84	+0.74	1.70	T.	14	19	2	9	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	46	49.8	+3.1	79	30	21	23	44	4.29	+0.73	0.91	0.2	17	8	13	9	e.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	41	53.4	+3.4	85	29	28	23	41	5.03	+1.50	2.12	T.	13	14	5	11	e.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	40	47.0	+2.7	79	29	20	23	34	5.00	+0.64	1.36	9.0	14	8	9	13	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	27	51.6	+1.4	79	18†	26	23	37	4.66	+1.03	1.72	0	10	10	8	12	w.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	60	53.0	+2.3	81	29	29	23	41	5.87	+2.21	1.20	0	13	15	8	7	s.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	29	49.2	+1.5	81	29	20	23	46	5.62	+1.26	2.33	3.0	9	17	8	5	e.	Sallie M. Johnson.
Gouldsboro.....	Wayne.....	1,875	18	42.7		66	29	19	23	41	2.73	-1.08	1.25	4.0	6	15	7	8	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	40	49.4	-0.3	76	30	25	23	43	6.20	+2.08	2.50	0	9	9	5	16	w.	State Sanatorium.
Hanover.....	York.....	600	29	54.0	+1.4	84	29	29	23	37	6.03	+2.51	1.48	T.	11	15	4	11	s.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	64	52.3	+1.4	81	29	33	23	31	5.17	+2.48	1.34	0	14	11	12	7	e.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	15	48.6	+3.0	80	29	19	23	44	3.56	+0.13	1.40	3.3	13	13	8	9	w.	Mrs. Della M. Pennell.
Holtwood.....	Lancaster.....	200	18								5.13	+2.20	1.58	0	15	11	10	9	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	46	51.1	+1.5	83	29	23	23	44	4.34	+0.90	1.84	0	12	13	7	10	w.	Prof. Paul R. Yoder.
Hyndman.....	Bedford.....	977	21	54.2	+3.5	89	29	26	23	50	4.94	+1.17	1.55	0	15	13	7	10	.....	Horace A. Sheavly.
Lancaster.....	Lancaster.....	255	46	50.4	+1.3	78	30	26	27	42	5.07	+1.53	1.46	T.	10	19	6	5	se.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	36	49.7	+3.8	83	29	21	23	47	3.20	+0.16	0.95	2.0	9	11	11	8	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	49	51.2	+0.8	84	29	26	23	39	4.53	+1.05	1.60	T.	13	19	7	4	e.	Lebanon Valley Gas Co.
Lewisburg.....	Union.....	450	57	52.4	+3.0	83	29	27	23	38	4.43	+0.86	1.31	0	10	8	13	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	43	53.1	+2.8	81	30	25	23	44	4.17	+0.72	0.92	T.	12	8	14	8	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	18	51.6	+1.6	87	29	23	21†	51	5.16	+1.50	1.08	T.	12	14	9	7	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	6	55.6†		79†	30	33†	23	35†	5.87		1.82	0	8	20	1	7	ne.	Sun Oil Co.
Mauch Chunk.....	Carbon.....	600	44	53.5	+4.9	85	29	31	17	47	5.27	+1.31	1.94	0.5	9	12	7	11	s.	R. K. Wintermute.
Midlinton.....	Juniata.....	445	29	53.5	+3.5	86	28	27	23	44	5.76	+1.98	1.01	0	12	14	8	8	w.	W. H. Manbeck.
Montrose.....	Susquehanna.....	1,658	29	43.9	-0.1	74	30	15	22	37	3.70	+0.16	1.00	4.0	7	13	5	12	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,720	27																	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	21	48.6	+1.0	79	29	19	23	44	3.95	-0.22	0.81	T.	11	16	3	11	sw.	H. O. Hacker.
Neshaminy Falls††	Bucks.....	60	44	50.1	+0.8	80	29	26	23	40	5.40	+2.02	1.85	0	11	16	6	8	e.	Philadelphia Sub. Water Co.
Palmerton.....	Carbon.....	398	15	49.3		81	29	26	23	40	5.20	+1.98	1.55	3.0	11	12	8	10	ne.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	62	53.8	+1.7	79	29	34	23	27	5.26	+2.21	1.83	0	11	9	10	11	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	9	54.0		82	29	32	23	29	5.42		1.72	0	9	10	11	9	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	17	52.4	+1.0	81	29	33	23	30	4.73	+1.34	1.51	0	11	8	14	8	w.	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	23	54.4	+2.8	83	29†	26	23	43	4.88	+1.35	1.95	T.	8	18	9	3	w.	Philadelphia Sub. Water Co.
Quakertown.....	Bucks.....	496	48	49.8	+1.3	81	29	26	23	37	5.75	+2.40	1.89	T.	11	12	8	10	nw.	John E. Benner.
Reading.....	Berks.....	514	63	52.6	+2.3	82	29	30	23	34	4.14	+0.87	1.43	0.3	12	8	13	9	se.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	39	49.9	+1.8	79	29	26	23	37	3.73	+0.96	1.34	4.0	11	7	12	11	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	43	51.2	+1.6	80	29	26	23	39	4.46	+0.86	0.93	0	10	13	11	6	sw.	Dr. George E. Fisher.
Shawmont††	Philadelphia.....	51	37	53.2	+1.0	79	29	31	23	34	5.05	+1.75	1.67	0	9	11	6	13	nw.	W. S. Gules.
State College.....	Center.....	1,217	49	50.4	+2.9	79	29	25	23	38	4.95	+1.55	0.78	T.	16	12	10	8	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	19	48.4	0.0	76	18	23	23	43	4.87	+0.81	0.97	T.	12	8	5	17	nw.	State Normal School.
Towanda.....	Bradford.....	754	39	49.4	+3.0	80	29†	22	23†	46	3.40	+0.40	0.78	1.0	12	8	10	12	se.	Mrs. M. Ordella Parks.
Wellsboro.....	Tioga.....	1,419	63	48.3	+3.7	80	29	20	23	47	3.13	-0.35	0.78	0.5	10	18	4	8	w.	George W. Hill.
West Chester.....	Chester.....	455	84	52.0	+2.2	79	29	28	23	32	4.99	+1.20	1.98	0	10	15	11	4	w.	Joseph W. Belt.
Williamsport.....	Lycoming.....	521	47	52.1	+3.2	84	29	27	23	41	4.75	+1.27	1.11	0.5	16	10	8	12	w.	Miss Veronica E. April.
York.....	York.....	400	45	53.4	+2.5	85	29	25	23	45	6.01	+2.85	1.44	T.	12	15	10	5	se.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver.....	700	41	51.5	+1.6	80	29	25	23	40	3.78	+0.70	1.09	.....	15	6	11	13	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,460	14																	Supt. Timber Pres. Plant.
Brookville.....	Jefferson.....	1,173	43	49.4	+4.3	81	30	22	12†	41	3.69	+0.79	1.05	T.	12	9	8	13	.....	John Fawcett.
Butler.....	Butler.....	1,077	20	51.5		83	30	21	23	46	3.61	+0.17	1.19	0	18	10	16	4	.....	William C. Faust.
Chambersville.....	Indiana.....	1,047	3	51.2	+1.5	81	29	21	2											

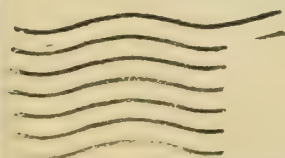
		Daily Precipitation for April, 1933																																Total
Stations	Drainage Basin	Day of month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh	.23	.15	.12	.16	.16		.65	.02		.03		1.04	.75				T.	.95	.42		T.					T.	.03					4.71	
Altoona	Juniata	.13	.33	.03	.12		.55	.80		.02	.05		.70					T.	.63	.45		.20	.07					.48					4.56	
Ansonia|||	W. Br. Susq.	.06	T.	.08	.18		.76		.01		.08		.83	.02				T.	.46	.41	.02							.35	T.	T.			3.26	
Ardmore	Lower Del.	.08	.19	.52	.31		.46	.22		.05	.02		2.04						.14	.74													5.77	
Arendtsville|||	Lower Susq.		.20	.15	.21			.79			.02		.98					.03	2.21	.24		1.15	.13										6.11	
Baker's Summit	Juniata	.24	.23		.08		.29	.68	.03	.15			.82					.42	.40		.33	.26						.12					4.05	
Bedford	Juniata	.12	.10	T.	.10		.23	.58	.03		.03		.75					.44	.49	.04	.72	.60					T.	.13					4.53	
Bellefonte***	W. Br. Susq.	.24	.21	.03	.18	.58		.60	T.	.12	.12	.25	.28				T.	.42	.59	T.	.62	.03						.26					4.36	
Bethlehem	Lehigh	.32	.03	.10	.39		.07	.70			.03		1.87					.01	1.61	.02		T.					T.	.02					5.17	
Boserville||	Lower Susq.	.05	.20	.05			.20	.50			.15		.50					.80	1.52		1.20												5.17	
Buffalo Mills	Juniata	.25	.30					.85			.12		.75					.20	.05		.22	1.00	.25					.11					4.10	
Carlisle	Lower Susq.	.23	.17		.43		.20	.45		T.	.11		1.00					.32	.94	.13	1.13	.55											5.66	
Catawissa|	N. Br. Susq.	.07	.22		.62		.08	.48			T.		1.15					.03	.77								.41						3.83	
Center Hall	Susquehanna																																	
Chambersburg	Potomac	.16	.03	.23	.06		.28	.67	.01		.04		.97					.57	.64	.30	.43	.53											4.92	
Clearfield	W. Br. Susq.	.08	.12	.02	.05		.48	.83	.20	T.	.25	.70					T.	.45	.26		.48							.08					4.00	
Coatesville	Lower Del.	.20		.09	.47		.14	.49			.67	.03	1.95					.18	1.74	.01													5.37	
Colebrook	Lower Susq.	.07	.17		.33		.18	.37		.04		.11	1.24					.35	1.70	.06	.15	.04					T.	.03					4.84	
Conshohocken	Schuylkill	.04	.18		1.01		.51	.58			.06		1.73					.09	.90	.06													5.16	
Cresson|	Juniata	.17	.12		.06		.85	.08		.09		.50	.13					.65	.36		.65	.36					.32						4.34	
Dorlestown	Lower Del.	.48		.05	.60		.08	.32			.11		1.99					.01	1.18	.02	T.												4.29	
Emporium	W. Br. Susq.	.05	.06	.12	.22		.43	.71		.06	.16	.20	.71				.07	.60	.30	.29							.04	.18	.02				4.74	
Ephrata	Lower Susq.	.24		.17	.29		.06	.76			.02		1.26					.07	2.12	.01	.01	.01					T.	.01					5.03	
Forest City	N. Br. Susq.		*	.42	.09		.50			.15			.26	.26					.41	.60								T.	T.	T.			3.21	
Freeland|||	Lehigh	.20	.12	.15	.20	.13		.65	.08		.02		1.05	.31				.02	1.15	.62	T.						T.	.30	T.				5.00	
Galetaon	W. Br. Susq.	.09	.04	.07	.37		.55	.65			.11	T.	.76					.12	.38	.39	.25							.35	.01				4.14	
George School	Lower Del.	.07		.18	.94		.29	.34			.05		1.72					.01	1.04	T.								.02	T.				4.66	
Gettysburg	Potomac	.07		.18	.34		.21	.64	.02		.02		1.20					.69	.98	.20	.49	.83											5.87	
Girardville|||	Lower Susq.	.12	.30	.12	.30	.26	.42	.02		.05			1.05					.17	.94	.89	.11							.37					5.12	
Gordon	Lower Susq.	.28		.20	.25		.37	.50					1.17					.18	2.33									.34					5.62	
Gouldsboro||	Lehigh	.25		.35			.15						.38						1.25	.35													2.73	
Graterford	Schuylkill	.28	.03	.09	.46		.04	.34			.02		1.94					.05	1.24														4.49	
Hamburg	Schuylkill	.46			.40		.22	.67			.02		1.51					.26	2.50								T.	.16					6.20	
Hanover	Lower Susq.	.11		.18	.37		.14	.44			T.		1.23					.15	.69	.14	1.48	1.10											6.03	
Harrisburg***	Lower Susq.	.06	.22	T.	.27		.33	.39		.06	T.	.03	.96					.65	.97	.04	1.06	.11						T.	.02				5.17	
Hawley|||	Upper Del.	.38	.16	.14	.01	.08		.32	.12		.01		.80	.60				.02	.44	.40	.02							.24	T.				3.56	
Hollisterville	Upper Del.	.20		.09	.20	.15		.39	.34	.02	T.		.81	.60				.02	.44	.40	.02								.06	.01			3.75	
Holtwood||	Lower Susq.	.10	.07	.08	.22	.03	T.	.71	.02		.02		.95	.25				.05	1.58	.05		.98						T.	.02				5.13	
Huntingdon	Juniata	.24	.23	T.			1.34	.45		.04	.07	.05	.85					.25	.45		.16	T.						.02					4.34	
Hyndman	Potomac	.10	.19	T.	.03		.28	.46	.02		.06		.88					.93	.62		.84	.42	.01					.06	.04				4.94	
Kylertown	W. B. Susq.	.10	.10		.19		.20	.63		.24	T.	.62		.50				.42	.34		.08	.32							.17				3.41	
Lakeville|||	Upper Del.	.38	.18	.14	.16	.18	.09	.25	.30		.05		1.12	.50			.03	T.	.60	.32	T.	.03						.35	T.				4.68	
Lancaster	Lower Susq.	.17			.32		.05	.94			.06		1.30					.42	1.46		.08	.27											5.07	
Lansford|||	Lehigh	.25		.20	.12	.16		.72	.03	*	.05		.87	.34				*	1.72	.36								T.	T.	.11			4.93	
Lawrenceville	N. Br. Susq.	.05		T.	.10		T.	.95					.75					T.	.10	.50	.45	.25							T.	.05			3.20	
Lebanon|||	Lower Susq.	.05	.19	.29	T.		*	.78		.03	.07	1.11	.14					1.60	.19	T.	.04												4.53	
Lewisburg	W. Br. Susq.	.21			.30		.26	.53			.08		.89					.08	1.31	.53									.24				4.43	
Lock Haven	W. Br. Susq.	.19	.04	.14	.35		.15	.72			.08		.92					.15	.78	.48									.17				4.17	
Lykens	Susquehanna	.28		.23	.35		.19	.62			.32	.10	1.08					.35	.97	.39									.28				5.16	
Marcus Hook	Lower Del.		.20	*	.90			.95		.05			1.82					*	1.45														5.37	
Matamoras	Upper Del.	.43	.57	.12				.48	.04				.70	1.07					.38	.30									.11				4.20	
Mauch Chunk	Lehigh	.45		.18	.29		.43	T.					1.46					.34	1.94	.02									.16				5.27	
Mifflintown	Juniata	.13		.18	.38		.22	.79				.33	1.00				</																	

Daily Precipitation for April, 1933—Continued from page 18

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage																																		
Beaver Dam|||	Ohio.....	.06	.15	.18	.07		.46	.20	.05			T.	1.09				.29	.25	.04	.18	.57						.02	.17					3.78	
Beaver Falls|||	Beaver.....	T.	.06	.12	.10		.42	.41	.03	T.	.04	T.	.92				.29	.20	.03	.28	.49						.02	.26					3.67	
Bradford.....	Allegheny.....																																	3.78
Brookville.....	do.....	.12	.15	.10			.60	T.	.32			1.05				.15	.31	.45	.11	.24							.19						3.61	
Butler.....	Ohio.....	.04	.30	.10	.03	.06	.33		.03	.02		* 1.19				.76		.01	.29	.26			.05		.02	.12							3.91	
Chambersville.....	Allegheny.....	.19	.25	.08	.15		.69	.21		.02		.38	.92			T.	.33	.23		.20							.26						4.10	
Clairton|||	Monongahela.....	.11	.07	.10			.54	.05		.03		1.39	.02			.16	.04	T.	.15	.93	.26			T.	.25	T.							3.86	
Claysville.....	Ohio.....	.21	.14	T.	.06	T.	.66	.15	T.	.01		.37	.74			.15	.45	.03	.10	.38	.06					.06	.29						3.71	
Clymer|||	Conemaugh.....		.40		.26		.30	.60		.12		1.11				.35	.13		.12								.32						4.56	
Confluence|||	Youghiogheny.....	.13	.10	.10	.16	T.	.28	.38	.10				.85				.25	.22		.06	1.05					.25	.54						3.63	
Corry.....	Allegheny.....	.02	.32	.04	.17		.16	.24		.01	.08	.26	.56			.07	.14	.36	.24	.96													4.15	
Coudersport.....	Allegheny.....	.16	.14	.44			1.10	.13		.05		.67				.06	.40	.52	.27							.19	.02						4.66	
Derry.....	Conemaugh.....	.16	.19		.19		.49	.37	.03	T.		.20	.80				.45	.16		.65	.44					.05	.48						3.54	
Donora|||	Monongahela.....		.09	.08	.16		.35	.33	.08				1.40				.61	.03	.02	.45	.48					.08	.35						4.51	
Ebensburg.....	Conemaugh.....	.20	.30	.06			.33	.64	.11	T.		.10	.42			T.	.38	.33	.11	.16	.10						.30						3.54	
Elk Lick.....	Youghiogheny.....	.40	.06				.90					.30				1.30				.18						.30			.38				3.82	
Franklin|||	Allegheny.....	.23	.16	.20	.07		.04	.40	.08		.11		.94				.27	.42	.30	.24	.37					.06							3.89	
Greensboro.....	Monongahela.....	.10	.07	.10	.32	.01	.30	.55	.04				1.50				.40	.08	.07	.29	.74	.04				.16	.43	T.					5.20	
Greensburg.....	Youghiogheny.....	.27	.12	T.	.20		.55	.33	.03	.03		.40	.90			.10	.39	.12	.02	.97	.51					.10	.38						5.42	
Greenville.....	Beaver.....	.11	.22	.04	.12		.67	.10	T.			.82	.68			.08	.54	T.	.05	.43	.08					.06							4.00	
Grove City.....	do.....	.14	.10	.05	.10		.35	.16	.03	T.	.20	.40				.03	.50	.02	.05	.15	.02					.02							2.32	
Harris Isl. Dam|||	Ohio.....	.10	.14	.20	.16		.26	.18	.11	T.		1.47				.39	.12	.03	.30	.87	.01					.05	.15	T.					4.54	
Irwin.....	Monongahela.....	.18	.14	T.	.05		.58	.10	.04	T.		.34	.42			.19	.34	.04	.01	.75	.43					.05	.11						3.77	
Johnstown.....	Conemaugh.....	.15	.15	.09	.25		.60	.42	.02	.04	.01	.16	.42			.10	.45	.15	T.	.27	.09					.15	.15						3.67	
Kane (near) |||	Allegheny.....	.08	.22	.10	.16		.23	1.03	.02	T.	.20	.24	.82	T.	T.		.66	T.		.07	.03					.06		.02					3.94	
Kregar|||	Youghiogheny.....	.30	.11	.28			.78	.20		.05		.69				.12	.18	.08	.12	1.21	T.					.07	.37						4.56	
Lake Lynn|||	Monongahela.....	.11	.08	.14	.56	.05	.20	.45	.05				1.35			.16	.17	.08	.31	.68						.32	.51						5.22	
Linesville|||	Beaver.....	.14	.17	.20	.30		.25	.41	.15	T.	.01		1.50	.04		.10	.48	.21	.06	.27	.40					.07							4.76	
Lock No. 2|||	Ohio.....	.08	.07	.08	.02		.42	.13	.10				1.16				.27	.43		.28	.68					.03	.12	T.					3.87	
Lock No. 4|||	Monongahela.....	.20	.10	.10	.20		.28	.32	.10				1.52				.58	.18	.02	.20	.79	.02				.06	.44	T.					5.11	
Lock No. 5|||	Allegheny.....	.25	.15	.18	.18		.13	.45	.08				1.16				.40	.17	.02	.25	.25	T.				.01	.38						4.06	
Lycippus.....	Conemaugh.....	.31	.50	T.			.97	.24	.05	.02		.32	.15				.68	.21	T.	1.19	.31					.11	.71						5.77	
McKeesport|||	Monongahela.....	.09	.21	.06	.12		.31	.35	.12				1.62				.57	.05		.42	.98	.02				.03	.25						5.20	
Meadville.....	Allegheny.....	.09	.30	.15	.16		.31	.34	.03		.03	.48	.55			.19	.39	.16	.04	.52	.03					.04	.10						3.91	
Mosgrove.....	do.....	.33	.18	.11	.14	T.	.68	.03		T.		1.18				.24	.22		.11	.20						.09							3.51	
Mount Lebanon.....	Ohio.....	.20	.27	.15	.04		.55	.09		T.		1.65	.03			.14	.44	.03	.09	.64	.12				.01	.45	.02						4.92	
Natrona|||	Allegheny.....	.22	.15	.26	.15		.15	.40	.09		.02		1.13				.36	.16	.03	.25	.45	.01				.03	.25	T.					4.08	
New Castle|||	Beaver.....	.06	.21	.16	.13		.65	.14	.05				1.20	.01			.31	.27	.02	.37	.17					.03	.14						3.92	
Newell.....	Monongahela.....	.15			.38		.57						1.50				.65				.95						.40						4.60	
Parkers Landing|||	Allegheny.....	.34	.15	.13	.08		.02	.54	T.				1.03				.38	.37	.03	.17	.33					T.	.13						3.70	
Pennline|||	Beaver.....	.16	.13	.18	.21		.50	.30	T.	T.	T.		1.30			.10	.47	.33	.07	.20	.32					.15	T.						4.42	
Pittsburgh***	Ohio.....	.15	.20	.14	T.		.43	.15		T.		1.46			T.	.17	.39	T.	.08	.84	.06					.01	.17	T.					4.25	
Punxsutawney|||	Allegheny.....	.41	.20	.22	.09		.30	.04			.12	.02	1.05				.09	.51	.09	.05	T.					.22							4.21	
Ridgway.....	do.....	.22	.16	.16	.20		1.10	.11			.11		.90				.11	.38	.03							.21							3.69	
Saltsburg|||	Conemaugh.....	.15	.09	.05	.14		.07	.35	.07		.02		1.17				.27	.25	.06	.20	.74	.02				.06	.31						4.02	
Sharon|||	Beaver.....	.07	T.	.17	.08		.47	.15	.42			T.	1.35			T.	.30	.30		.23	.12					T.							3.26	
Smethport.....	Allegheny.....	T.	.03	.40	T.		.65	T.		.11		.97					.13	.20	.16	.06						T.							2.61	
Somersett.....	Youghiogheny.....	.07	.28	.02	.06		.27	.67	.03	.02	T.	.02	.53			.01	.42	.03		1.04	.14					.10	.19						3.90	
Springdale|||	Allegheny.....	.21	.22	.30	.19		.25	.38	.12		.02		1.13				.37	.16		.39	.71	.02				.02	.15	.01					4.65	
Uniontown.....	Monongahela.....	.12	.16	T.	.37		.41	.30	.04	.02		.44	.83			.07	.37	.06	.08	.85	.04					.12	.40						4.91	
Unity Reservoir|||	Youghiogheny.....	.16	.25				.20	.52	.08	T.		.24	1.00			.03	.37	.12	.03	.92	.54					.12	.40						4.98	
Vandergrift|||	Conemaugh.....		.75	.06			.65	.09				1.15	.12				.42	.05	.62	.05						.28	.01						2.19	
Warren.....	Allegheny.....	.04	.06	.20	.24		.40				.11	.10	.28			.04	.24	.18	.04	.18						.04	.04						5.15	
Waynesburg.....	Monongahela.....	.24	.21		.14		.50	.18	.06			.80	.96			.23	.50		.11	.69	.11					.088								

Daily Temperatures for April, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum..	65	59	62	50	62	58	53	50	61	59	53	44	62	58	64	59	62	70	56	53	62	52	56	70	66	52	52	65	81	76	59.7	
	Minimum..	38	44	44	42	35	39	46	38	36	41	40	37	32	34	42	46	50	56	49	40	42	28	36	45	41	30	31	43	48	40.2		
Altoona.....	Maximum..	56	61	54	47	62	60	55	47	68	72	69	51	60	65	61	58	66	66	63	54	61	58	69	67	61	50	69	81	75	61.5		
	Minimum..	43	43	35	30	46	39	32	32	43	45	34	30	38	45	48	53	41	46	34	33	41	22	37	43	31	30	26	48	50	38.4		
Bedford.....	Maximum..	59	68	58	54	66	62	56	73	77	73	53	65	69	69	59	71	69	65	46	65	65	62	73	73	66	54	74	86	81	65.9		
	Minimum..	43	38	33	39	31	48	38	36	35	44	45	36	26	32	41	49	57	40	45	36	30	26	30	44	35	30	26	41	49	38.1		
Bellefonte.....	Maximum..	60	63	56	45	62	56	47	47	65	70	53	51	61	64	58	59	69	68	58	55	62	51	57	68	47	49	64	78	75	59.5		
	Minimum..	43	39	34	33	29	47	35	34	28	42	40	31	26	42	40	50	55	48	41	37	29	28	23	33	41	28	27	26	42	58	37.2	
Brookville.....	Maximum..	60	66	59	45	61	92	46	75	78	78	53	52	65	73	64	68	73	70	59	63	66	69	59	70	69	47	49	69	74	81	64.1	
	Minimum..	44	29	33	23	42	37	32	40	46	39	32	22	30	37	45	50	39	42	41	27	30	28	22	35	30	22	22	39	41	44	34.8	
Butler.....	Maximum..	62	60	54	56	59	61	59	42	76	76	72	55	61	71	70	67	68	65	60	55	55	57	67	69	62	47	67	78	83	63.4		
	Minimum..	52	31	30	35	35	52	37	31	41	50	53	38	25	38	60	49	50	33	48	38	30	34	21	47	41	31	29	33	45	51	39.6	
Carlisle.....	Maximum..	65	65	66	59	66	64	57	57	70	71	66	54	65	67	67	64	74	74	73	54	65	63	60	75	74	71	58	70	86	82	66.7	
	Minimum..	43	51	35	46	34	51	44	39	31	48	42	36	30	34	41	48	55	51	45	38	29	38	26	30	44	42	28	32	45	47	40.1	
Catawissa.....	Maximum..	65	64	61	52	62	62	60	56	65	72	62	52	64	68	65	62	71	70	60	66	69	56	62	72	73	65	53	67	86	78	64.7	
	Minimum..	42	48	36	38	35	42	48	28	30	43	42	33	28	34	44	52	56	54	45	40	32	29	25	35	42	37	31	29	53	54	39.5	
Chambersburg.....	Maximum..	68	67	61	56	63	59	56	67	72	72	67	57	65	67	65	60	74	72	64	46	63	62	59	75	75	66	59	70	84	75	65.9	
	Minimum..	40	50	35	41	36	43	40	38	38	36	47	44	38	29	35	43	50	53	46	44	36	33	39	27	31	46	39	31	32	43	39.8	
Chambersville.....	Maximum..	64	58	60	56	67	66	59	46	73	79	75	53	65	73	66	62	73	70	59	56	64	62	57	67	69	59	50	69	81	80	64.6	
	Minimum..	49	41	34	35	27	50	33	32	26	45	45	33	25	44	50	47	55	36	46	38	30	36	21	26	41	29	28	28	48	54	37.7	
Claysville.....	Maximum..	60	61	57	58	68	69	58	59	77	83	80	58	67	74	71	66	67	60	54	52	64	62	62	73	69	63	57	72	84	81	66.3	
	Minimum..	50	43	37	35	28	57	33	33	35	45	54	34	28	42	47	49	38	47	40	32	38	24	27	47	32	29	30	48	57	59	39.6	
Clearfield.....	Maximum..	62	62	60	50	70	63	58	55	72	80	70	74	66	72	68	58	72	72	65	62	73	65	68	72	69	52	51	70	84	80	66.5	
	Minimum..	41	44	32	37	26	42	40	32	26	46	33	32	24	28	40	49	53	40	49	38	28	37	22	28	36	32	29	23	41	46	35.6	
Coatesville.....	Maximum..	66	64	64	54	62	59	56	51	65	65	56	45	63	60	60	63	66	74	61	52	61	55	55	72	70	61	56	67	79	76	61.9	
	Minimum..	45	52	44	42	37	46	43	38	36	47	40	36	34	40	40	46	56	55	42	39	32	37	29	35	46	44	29	31	49	47	41.2	
Corry.....	Maximum..	58	54	50	40	64	61	59	36	66	76	67	64	67	61	58	67	73	67	67	60	68	63	59	67	64	56	47	63	77	72	61.0	
	Minimum..	49	40	33	32	26	60	31	29	30	42	47	30	40	47	44	47	50	46	41	44	42	40	20	32	42	29	30	32	49	54	38.9	
Coudersport.....	Maximum..	59	58	55	51	63	56	52	38	64	72	69	47	64	67	65	57	63	66	60	61	66	.....	69	67	58	42	65	.....	.....	59.8 ^a	
	Minimum..	43	38	30	32	26	38	33	29	30	34	42	31	20	32	43	45	52	43	49	40	26	.....	17	.....	33	28	25	19	.....	33.8 ^a	
Emporium.....	Maximum..	66	61	58	46	63	58	56	44	65	73	62	50	62	66	62	61	67	67	61	60	65	55	59	68	67	49	47	67	78	79	61.4	
	Minimum..	46	44	35	38	27	40	39	34	31	42	47	37	24	33	45	49	56	48	50	44	29	35	21	28	39	33	23	51	45	38.1		
Erie.....	Maximum..	63	54	53	42	59	65	43	37	47	64	63	49	64	70	54	63	66	63	52	57	58	42	46	61	55	39	42	65	68	77	56.0	
	Minimum..	39	40	35	32	33	42	33	33	32	38	36	35	41	49	39	44	45	43	41	45	42	33	30	43	36	32	32	34	48	63	38.9	
Franklin.....	Maximum..	61	55	57	46	65	65	43	44	71	80	59	56	64	71	64	60	74	67	60	65	68	67	60	69	65	44	48	69	81	79	62.6	
	Minimum..	45	41	31	32	27	28	36	32	26	34	41	32	26	29	43	47	50	39	41	40	32	32	21	27	32	30	30	25	40	49	34.6	
Freeland.....	Maximum..	59	60	59	48	58	51	49	45	58	63	51	39	54	61	63	54	57	70	59	54	66	53	52	67	68	56	45	62	79	78	57.8	
	Minimum..	35	41	34	32	30	42	37	30	30	39	35	31	28	33	38	43	50	52	39	34	32	30	20	36	49	30	25	29	48	53	36.2	
Gettysburg.....	Maximum..	66	66	64	58	64	59	57	56	68	72	67	55	68	66	62	60	72	71	67	49	59	57	58	73	70	68	59	68	81	77	64.4	
	Minimum..	45	51	38	42	36	44	44	40	39	50	42	37	34	36	42	50	56	52	44	36	34	38	29	32	48	42	30	35	49	50	41.5	
Greensburg.....	Maximum..	62	60	58	52	71	71	56	52	74	80	77	54	67	73	68	65	74	68	54	49	69	64	57	68	67	63	53	70	81	79	65.2	
	Minimum..	48	43	37	37	31	52	34	30	66	74	78	75	65	66	70	71	64	71	69	63	64	69	72	56	66	65	57	62	66	75	74	66.3
Grove City.....	Maximum..	60	58	55	59	64	75	60	66	74	78	75	65	66	70	71	64	71	69	63	64	69	72	56	66	65	57	62	66	75	74	66.3	
	Minimum..	49	43	31	34	32	32	31	31	29	47	52	32	37	62	64	58	56	64	62	55	52	58	57	68	70	68	53	66	69	76	61.8	
Hamburg.....	Maximum..	62	62	62	62	63	61	58	62	60	63	62	51	62	64	58	56	64	62	55	35	28	30	25	29	42	39	26	32	38	46	37.0	
	Minimum..	41	42	43	38	40	44	44	32	34	34	40	35	35	36	42	45	40	45	45	35	28	30	25	29	42	39	26	32	38	46	37.0	
Harrisburg.....	Maximum..	64	64	60	51	62	57	56	54	64	66	55	52	64	66	62	64	58	61	70	53	54	60	51	57	72	70	57	55	81	75	61.6	
	Minimum..	42	51	44	42	39	46	41	40	40	49	41	36	39	40	44	49	56	57	40	40	35	36	33	43	50	37	36	37	52	55	43.0	
Hawley.....	Maximum..	64	58	61	57	59	56	50	45	55	68	62	46	59	61	67	62	59	69	68	58	68	64	55	71	69	65	46	62	80	78	61.3	
	Minimum..	36	44	34	37	33	29	39	34	34	39	38	32	24	27	41	45	52	53	45	39	26	36	19	27	37	36	26	20	52	40	35.8	
Huntingdon.....	Maximum..	62	68	60	52	66	57	55	51	72	75	63	55	66	67	65	59	72	70	61	58	66	58	62	72	71	62	54	6				



CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

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MAY, 1933.

No. 5.

GENERAL SUMMARY.

This was the warmest May since that of 1922, but with no unusual extremes. One or both extremes have broken in every May since that of 1916. It was a decidedly rainy month in nearly all parts of the State, there being an average of 18 days with 0.01 inch or more of precipitation. This is the greatest number of rainy days of record for the month of May. The average rainfall for the State, 5.86 inches, was fifty percent above the May normal. Seventy-three stations reported monthly totals in excess of 6.00 inches. The frequent rains kept the fields too wet and muddy for seeding and planting, which were seriously delayed. Most field operations were about ten days late at the beginning of the month, due to frequent rains early in the season, the excess rainfall for March and April averaging nearly three inches. Oats seeding, which normally is about finished in April, was continued into the fourth week of May. Corn planting began during the first week, on average time, but was not finished at the close of the month. Truck gardening progressed very slowly. The rains and excess temperature were favorable for wheat, rye, pastures, and meadows, which made a fine showing. Rye was headed, and wheat mostly headed at the close of the month, and the condition of both grains was much better than seemed possible early in the season. Pastures were never better, and a heavy crop of alfalfa was ready for cutting as the month closed. There were an unusual number of severe local storms with heavy resulting damage. A storm at Reading on the 20th did property damage estimated at \$75,000, and six persons were seriously injured. A tornado funnel cloud was seen in this storm, and a wind velocity of 70 miles per hour was recorded at the Weather Bureau office. The path of the tornado was only about 40 feet in width. On the same date a violent thunderstorm in York did damage estimated at \$100,000. A violent thunderstorm at Philadelphia on the 24th caused property damage variously estimated to exceed \$500,000. Six persons were killed and fourteen seriously injured in this storm. Hundreds of large trees were uprooted or broken off. A few buildings were unroofed and otherwise damaged, and thousands of windows were broken by hail. The damage to wire service alone exceeded a quarter-million of dollars. A wind velocity of 68 miles per hour at the Weather Bureau office exceed all previous records. A rainfall of 0.52 inch occurred in five minutes, and 1.54 inches in thirty minutes. A storm at Honesdale on the 31st resulted in damage estimated at \$35,000, chiefly by flooding. The monthly rainfall in that region was near the lowest for the State.

TEMPERATURE.

The mean temperature for the State, as shown by the reports

from 88 stations, was 62.2°, which is 2.8° above the normal for May. The highest monthly mean was 68.0°, at Marcus Hook, and the lowest was 53.1° at Gouldsboro. The highest temperature recorded during the month was 94° at Ardmore on the 27th, and the lowest was 24° at Arendtsville on the 6th. The greatest daily range in temperature for the month was 51° at Brookville on the 22d.

PRECIPITATION.

The average precipitation for the State, based on the reports from 148 well-distributed stations, was 5.86 inches, which is an excess of 1.96 inches above the normal. The greatest monthly total was 10.52 inches at Huntingdon, while the least was 2.17 inches, reported from Matamoras. The greatest amount recorded in any 24 consecutive hours was 2.80 inches at Greenville on the 24th.

The normal snowfall for the State is a trace, but no station reported any during the month.

COMPARATIVE DATA FOR MAY

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	.01 inch or more prec	Clear	Partly cloudy	Cloudy
1888.....	57.3	-2.1	91	24	4.24	+0.34	8.41	2.26	T.	16	4	11	16
1889.....	60.4	+1.0	96	25	5.91	+2.01	12.41	2.51	0	11	11	9	11
1890.....	58.5	-0.9	89	23	6.71	+2.81	12.41	2.96	0	15	7	11	13
1891.....	57.3	-2.1	93	20	2.12	-1.78	4.41	0.31	0.2	8	10	10	11
1892.....	58.5	-0.9	91	28	5.70	+1.80	9.30	3.77	0	16	7	10	14
1893.....	57.9	-1.5	93	26	5.54	+1.64	9.20	2.92	0	12	11	8	12
1894.....	60.8	+1.4	92	27	8.88	+4.98	15.02	2.72	0	16	9	8	14
1895.....	60.6	+1.2	102	22	2.68	-1.22	6.36	0.86	0	9	13	10	8
1896.....	65.4	+6.0	98	31	2.85	-1.05	6.30	1.19	0	10	10	12	9
1897.....	57.7	-1.7	88	25	5.24	+1.34	10.05	1.71	T.	12	11	10	10
1898.....	60.0	+0.6	94	22	5.11	+1.21	10.15	2.79	0	15	8	9	14
1899.....	61.1	+1.7	100	24	3.82	-0.08	6.40	1.15	0	11	10	11	10
1900.....	60.4	+1.0	96	20	2.79	-1.11	7.63	0.72	T.	9	13	9	9
1901.....	58.9	-0.5	91	28	5.56	+1.66	7.96	2.24	0	15	8	9	14
1902.....	59.8	+0.4	95	25	1.96	-1.94	4.45	0.29	0	8	13	11	7
1903.....	61.8	+2.4	94	18	1.67	-2.23	4.65	0.22	0	7	16	9	6
1904.....	61.6	+2.2	94	21	3.78	-0.12	7.50	2.07	0	11	12	10	9
1905.....	60.8	+1.4	93	22	2.59	-1.31	5.17	0.56	0	12	11	9	11
1906.....	60.0	+0.6	99	23	3.23	-0.67	5.59	0.93	0	10	12	10	9
1907.....	54.8	-4.6	91	19	3.08	-0.82	6.38	1.44	0.1	11	11	9	11
1908.....	61.2	+1.8	96	22	6.28	+2.38	10.95	3.19	0.3	15	10	10	11
1909.....	59.2	-0.2	92	23	2.90	-1.00	5.52	1.51	0.1	10	12	10	9
1910.....	56.8	-2.6	88	24	3.38	-0.52	6.08	1.73	0	12	11	10	10
1911.....	65.2	+5.8	99	20	1.97	-1.93	6.81	0.42	0	7	17	10	4
1912.....	61.2	+1.8	91	28	3.15	-0.75	5.99	0.99	0	11	14	8	9
1913.....	58.5	-0.9	93	21	3.86	-0.04	6.45	0.48	0	10	13	8	10
1914.....	61.5	+2.1	96	19	3.34	-0.56	6.52	0.90	0	9	16	9	6
1915.....	56.2	-3.2	84	21	4.16	+0.26	7.45	2.29	0	14	10	8	13
1916.....	61.0	+1.6	93	26	3.19	-0.71	6.09	1.49	T.	13	12	11	8
1917.....	53.3	-6.1	90	20	3.39	-0.51	8.09	1.65	T.	13	9	10	12
1918.....	65.1	+5.7	95	21	5.04	+1.14	8.37	1.81	0	14	13	12	6
1919.....	59.5	+0.1	98	27	5.80	+1.90	13.59	2.86	0	14	13	7	11
1920.....	56.6	-2.8	92	18	2.02	-1.88	3.65	0.67	0	8	17	8	6
1921.....	59.8	+0.4	93	22	3.93	+0.03	8.17	0.79	0	11	14	8	9
1922.....	62.5	+3.1	96	20	3.21	-0.69	7.14	1.69	0	10	15	8	8
1923.....	58.3	-1.1	93	20	3.50	-0.40	7.43	1.23	0.6	8	19	6	6
1924.....	54.6	-4.8	92	18	5.71	+1.81	9.64	3.31	0	17	9	9	13
1925.....	55.2	-4.2	98	22	3.49	-0.41	7.98	1.02	0.2	11	13	10	8
1926.....	58.8	-0.6	95	18	1.78	-2.12	5.52	0.62	0	8	17	10	4
1927.....	58.2	-1.2	92	23	4.14	+0.24	7.23	1.75	0	16	9	9	13
1928.....	58.0	-1.4	95	20	2.23	-1.67	5.10	0.65	0	10	15	9	7
1929.....	58.5	-0.9	97	23	4.81	+0.91	8.43	1.96	T.	14	13	9	9
1930.....	61.2	+1.8	99	25	3.03	-0.87	6.39	1.03	0	10	15	8	8
1931.....	59.8	+0.4	95	19	5.28	+1.38	12.97	2.33	T.	15	13	9	9
1932.....	59.8	+0.4	98	21	3.69	-0.21	6.40	1.00	0	10	15	8	8
1933.....	62.2	+2.8	94	24	5.86	+1.96	10.52	2.17	0	18	8	10	13
Period.....	59.4	.....	102	18	3.90	.....	15.02	0.22	T.	12	12	9	10

Climatological Data for May, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	21	62.0	+2.3	86	20†	39	5	37	6.11	+2.57	1.29	0	17	15	2	14	ne.	John A. Frick.
Altoona	Blair	1,615	46	60.4	+1.6	86	20	39	5	36	9.61	+5.67	1.28	0	23	12	9	10	w.	F. E. Rooney.
Ardmore	Montgomery	350	1	65.4	+5.0	94	27	39	5	38	7.10	+3.25	1.82	0	18	1	1	1	.....	H. G. Balderston.
Arendtsville	Adams	700	11	62.0	+2.3	90	24	24	6	43	5.23	+1.32	1.06	0	13	18	1	12	n.	Dr. S. W. Frost.
Bedford	Bedford	1,060	1	63.0	.....	90	20	41	6	42	5.98	.....	0.75	0	20	7	11	13	nw.	Charles C. Lee.
Bellefonte	Center	1,050	25	59.2	-1.9	83	26	35	5	35	5.46	+1.75	1.03	0	23	1	9	21	sw.	U. S. Weather Bureau.
Bethlehem	Northampton	364	48	64.5	+2.3	86	20†	42	5	32	7.78	+4.21	1.79	0	18	15	2	14	w.	Lehigh University.
Carlisle	Cumberland	467	67	65.1	+3.7	92	24	36	5	38	7.53	+3.73	1.70	0	19	18	4	9	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	37	62.4	+1.9	93	20	35	5	41	4.36	+0.76	0.83	0	16	13	4	14	.....	W. L. Gearhart.
Center Hall	Center	1,272	37	56.9	-1.9	85	27	36	5	38	6.13	+2.10	1.45	0	18	12	8	11	.....	S. W. Smith.
Chambersburg	Franklin	580	34	64.3	+3.6	92	24	40	5	35	6.30	+2.75	1.16	0	18	4	12	15	sw.	William B. Spear.
Clearfield	Clearfield	1,120	26	60.5	+1.7	87	26	36	5	46	8.64	+4.16	1.09	0	22	4	14	13	sw.	E. W. Hess.
Coatesville	Chester	380	46	64.1	+2.9	90	27	39	5	35	5.81	+1.87	1.05	0	19	11	5	15	nw.	Howard L. Pyle.
Colebrook	Lebanon	560	22	61.0	+2.0	87	20	34	5	35	6.81	+3.60	1.14	0	19	12	7	12	ne.	Wm. A. Rorer.
Emporium	Cameron	1,050	46	59.7	+1.9	83	26	32	5	42	6.79	+2.40	0.91	0	19	6	11	14	ne.	T. B. Lloyd.
Ephrata	Lancaster	380	41	65.2	+4.2	91	27	38	5	40	6.34	+2.95	0.99	0	18	8	11	12	s.	Ira J. Keath.
Freeland	Luzerne	1,970	40	60.0	+3.8	84	20	34	5	28	4.06	-0.32	0.60	0	17	7	9	15	se.	Theo. Reichmann.
George School	Bucks	190	27	65.0	+4.5	90	27	41	5	38	5.45	+1.94	1.16	0	18	10	5	16	w.	Prof. N. W. Swayne.
Gettysburg	Adams	553	60	65.0	+3.7	91	29	41	5	33	4.68	+0.79	1.01	0	16	9	9	13	s.	Dr. Henry Stewart.
Gordon	Schuylkill	840	29	59.4	+1.6	83	20†	31	5	38	6.02	+2.16	0.96	0	15	14	8	9	w.	Sallie M. Johnson.
Gouldsboro	Wayne	1,875	18	53.1	.....	78	20†	32	5†	33	2.94	-1.23	0.80	0	9	15	8	8	w.	Gustav Holtz.
Hamburg	Berks	535	40	60.8	-0.1	86	27	38	4	38	8.01	+3.60	1.79	0	15	10	12	9	w.	State Sanatorium.
Hanover	York	600	29	65.7	+2.9	90	24	40	5	36	4.68	+1.44	1.05	0	18	9	9	13	s.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	64	64.2	+2.4	88	24	43	9	27	5.53	+2.09	1.04	0	19	4	12	15	w.	U. S. Weather Bureau.
Hawley	Wayne	900	15	60.9	+4.1	87	26	29	5	44	2.54	-0.99	0.50	0	16	10	17	4	w.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	18	65.4	+3.6	88	24†	45	10	24	3.75	+0.87	0.56	0	15	4	14	13	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	46	62.4 ^a	+2.2	88 ^a	20†	37 ^a	5	42 ^a	10.52	+6.38	1.88	0	20	7	9	15	w.	Prof. Paul R. Yoder.
Hyndman	Bedford	977	21	64.2	+3.4	91	20†	41	5	44	6.14	+3.29	0.99	0	19	6	6	19	.....	Horace A. Sheavly.
Lancaster	Lancaster	255	46	62.0	+1.3	90	24	33	5	38	4.86	+1.63	1.00	0	15	17	7	7	nw.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	36	60.8 ^d	+3.9	88 ^d	23	30 ^d	5†	47 ^d	3.80	+0.22	0.65	0	13	12	11	8	.....	C. P. Darling.
Lebanon	Lebanon	469	49	64.0	+3.2	89	20†	36	5	35	6.09	+2.23	0.91	0	16	16	9	6	se.	Lebanon Valley Gas Co.
Lewisburg	Union	450	57	63.0	+3.1	86	26	37	5	36	4.67	+0.91	0.90	0	19	7	8	16	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	43	64.6	+3.0	90	20	36	5	40	5.27	+1.38	1.31	0	22	4	17	10	sw.	Joseph Beaver.
Lykens	Dauphin	680	18	62.2	+3.0	90	20	30	5	47	6.01	+2.14	0.90	0	20	12	12	7	sw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	6	68.0	.....	91	27	45	5†	29	3.40	.....	0.68	0	13	15	2	14	ne.	Sun Oil Co.
Mauch Chunk	Carbon	600	44	65.0	+5.3	89	20	40	3	35	5.84	+1.83	0.79	0	17	13	8	10	s.	R. K. Wintermute.
Millintown	Juniata	445	29	64.6	+4.5	90	20†	37	5	38	7.65	+3.89	1.34	0	15	11	8	12	w.	W. H. Manbeck.
Montrose	Susquehanna	1,658	29	57.4	+2.9	78	21	34	8†	33	5.06	+1.19	1.20	0	8	9	10	12	s.	Silas Jagger.
Mt. Pocono	Monroe	1,720	27	54.8	+0.9	85	27	34	9	38	2.62	-1.38	1.00	0	15	15	4	12	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	21	59.2	+2.3	85	20	30	5	37	5.28	+0.92	1.17	0	13	10	9	12	sw.	H. O. Hacker.
Neshaminy Falls	Bucks	60	44	63.8	+4.4	91	27	39	5	39	5.27	+1.64	1.24	0	16	14	6	11	se.	Philadelphia Sub. Water Co.
Palmerton	Carbon	398	15	61.4	.....	88	20	33	5	33	5.18	+1.33	1.19	0	17	9	9	13	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	62	66.3	+3.4	89	27	45	8	24	6.93	+3.67	1.74	0	16	4	10	17	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	9	66.6	.....	90	27	45	8†	32	6.26	.....	1.56	0	17	5	16	10	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	17	65.2	+3.3	91	27	43	8	25	4.66	+1.45	1.30	0	15	2	15	14	sw.	Commandant, Navy Yard.
Phoenixville	Chester	100	23	66.2	+5.1	93	21	35	5	40	6.04	+2.08	1.44	0	18	14	11	6	s.	Philadelphia Sub. Water Co.
Quakertown	Bucks	496	48	62.2	+2.8	88	27	36	5	38	7.35	+3.47	1.20	0	17	11	10	10	nw.	John E. Benner.
Reading	Berks	514	63	64.0	+1.5	90	20	41	5	28	5.42	+1.75	1.46	0	18	5	10	16	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	39	61.4	+2.0	85	26	36	5	35	5.82	+0.55	0.87	0	16	5	12	14	sw.	U. S. Weather Bureau.
Sellinsgrove	Snyder	455	43	62.5	+2.0	86	26	35	5	35	5.14	+1.15	1.00	0	20	6	17	8	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	37	66.1	+3.5	90	27	41	5	34	5.56	+2.24	1.20	0	18	10	7	14	s.	W. S. Guiles.
State College	Center	1,217	49	61.0	+2.4	87	20	37	5	35	6.95	+3.01	0.92	0	21	11	8	12	w.	C. A. Kern.
Stroudsburg	Monroe	500	19	59.1	-0.2	89	27	32	5	37	4.14	+0.65	0.80	0	14	8	3	20	nw.	State Normal School.
Towanda	Bradford	754	39	61.0	+3.7	88	26	30	5	44	4.18	+0.99	0.94	0	12	8	6	17	sw.	Mrs. M. Ordella Parks.
Wellsboro	Tioga	1,419	63	58.8	+2.5	88	26	28	5	46	3.69	-0.27	0.73	0	13	12	8	11	w.	George W. Hill.
West Chester	Chester	455	84	64.2	+3.6	87	27	42	5	28	6.35	+2.03	1.03	0	14	9	10	12	w.	Joseph W. Belt.
Williamsport	Lycoming	521	47	62.6	+2.2	87	20	35	5	37	5.44	+2.03	1.70	0	19	5	9	17	se.	Miss Veronica E. April.
York	York	400	45	65.2	+4.1	91	24	35	5	39	4.84	+1.53	1.20	0	19	9	14	8	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	41	61.8	+1.5	84	23†	41	5†	42	5.76	+2.51	1.28	0	19	3	9	19	sw.	U. S. Engineer.
Bradford	McKean	1,460	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Supt. Timber Pres. Plant.
Brookville	Jefferson	1,173	43	58.8	+3.5	86	24†	31	8†	51	5.82	+2.23	1.12	0	18	8	6	17	.....	John Fawcett.
Butler	Butler	1,077	20	61.0	86	23	36	22	47	4.79	+1.41	0.70	0	20	7	19	5	w.	William C. Faust.
Chambersville</																				

Daily Precipitation for May, 1933

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Daily Precipitation for May, 1933—Continued from page 23

Stations	Drainage Basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Ohio Drainage																																					
Beaver Dam|||	Ohio.....			.17	.02			.49	.22	.04	.52	.44	.09	.23	.01	1.28	.12	.03	T.								1.12		.08	.38	.03	.37	.12	5.76			
Beaver Falls|||	Beaver.....			.15	T.			.28	.21	.01	.35	.24	.01	.29	T.	.78	.06	.05	.01							.45		.37		.12	.23	.03	.17	5.93			
Bradford.....	Allegheny.....																																				
Brookville.....	do.....			1.12	.69	.06		.62	.39		.45	.16		.06		.48		.08	.07							.59		.32		.11	.20	.21	.18	5.82			
Butler.....	Ohio.....			.01	.15	.03		.50	.18		.31	.27		.24	.04	.42	.26	.03	.01								.61		.50		.12	.70	.20	.19	4.79		
Chambersville.....	Allegheny.....			.11	.36	.20		.08	.63		.75	.06	.87	.23	.02	.62	.16	.06	.19	.01						.02		.69		.30		.52	.29	.82	.23	7.27	
Clairton|||	Monongahela.....			.36	.21	T.		.18	.47		.62	.36	.39	.36		.36	.33	.08	.08	T.						.25		.18		.16		.10	.60	.31	.25	5.65	
Claysville.....	Ohio.....			.25	.21	.09	T.	.17	.54		.47	.25	.84	.57		.39	.38	.09	.12	T.						.50		T.	.87		.06	.01	.44	T.	.08	6.33	
Clymer|||	Conemaugh.....			.32	.40	1.15		.55		.70	.08	1.04	.22		.20	.38		.26										1.40		.15	.15		.40		7.40		
Confluence|||	Youghiogheny.....			.89	1.10			.65	.80	.05	.72	1.50	.05	.55		.50	.05	.31	.05							.25		T.	.65	.05	.07	.10	.15	9.68			
Corry.....	Allegheny.....			.21	.17	T.		.32	T.	.31	.17	.06	T.	T.	.15			.71								.02	*	1.05		.11		.23	.17	3.63			
Coudersport.....	Allegheny.....			.96	.45	.12		.85		.14	.12			.14			.16	.53										1.54		.74		.24			5.99		
Derry.....	Conemaugh.....			.05	.72	.17		.07	.83		.77	.07	.91	.30	T.	.21	.86	.03	.11							.30		.94	1.06	.87	.17	.75	.28	9.49			
Donora|||	Monongahela.....			.05	.33	.02	T.	.69	.26	.77	.07	1.31	.37	T.	.22	.18	.03	.10								.22		.08		.22	.23	.14		5.32			
Ebensburg.....	Conemaugh.....			.16	.90	.27		.09	1.07	.04	.81	.07	.62	.21	.09	.65	.85		.72	.09							.35		.30	.42	.35	.08	.13	.08	8.35		
Elk Lick.....	Youghiogheny.....			.22	.62			.53	.78		.97	.75	.73	.55		1.05		.20	.28								.24	.28		.68		.10	.14	.08	8.70		
Franklin|||	Allegheny.....				.58			.48	.31		.35	.14		.12	.11	.15	.07	.04	.19								.80		.51		.95	.03		.67	5.84		
Greensboro.....	Monongahela.....			T.	.67	.03		.55	.73	.08	.04	.67	.01	.60	.03	.35	.07	.31	T.							.10		.11	.38	.03	.32	.05	.08	.50	5.71		
Greensburg.....	Youghiogheny.....			.03	.28	.09	.01	.10	.70		.74	.07	1.07	.31	.03	.29	.65	.02	.06	T.							.34		.16	.99	.78	.20	.50	.19	7.70		
Greenville.....	Beaver.....			.40	.31				.81	.10	.02	.10		.20			.03	.12										2.80	.35	.07	.11	.08	T.	5.47			
Grove City.....	do.....			.30	.06			.68	.05	.40	.04	.15	.14	.01	.60	.23	.03	.01	.01								.21		.61	.62	.01	.11	.04	.12	4.78		
Harris Isl. Dam|||	Ohio.....			.27	.40	.02		.44	.25	.14	.71	1.33	.03	.30	.01	1.58	.11	.02	.01									1.88	T.	.03	.39	.05	.30	.02	8.32		
Irwin.....	Monongahela.....			.21	.17	.18		.08	.51		.56	.08	.85	.35	.03	.17	.57	.01	.07	T.							.74		T.	.72	.78	.07	.16	.12	6.48		
Johnstown.....	Conemaugh.....			.86	1.03	.20	.02	.20	.73		.85	.15	1.32	.33	.03	.22	.72	.06	.58	T.							.17		.70	.31		.44	.10	.32	9.43		
Kane (near) |||	Allegheny.....			1.08	.51			1.01	.08	.21	.11	.07	.03		.43	.04		.55	T.								.05		.68	.01	.69	.29	.08	.04	5.96		
Kregar|||	Youghiogheny.....			.49	.90	.06		.74	.45		.56	1.40	T.	.38	.02	.35	.15	.34	.44							.80		1.29		.17	.21	.19	.34	9.33			
Lake Lynn|||	Monongahela.....				.68	.07		.65	.77	.05	.20	.59		.72	.03	.65	.06	.26									.37		.14	.87		.45	.03	.08	7.37		
Lanesville|||	Beaver.....																																				
Lock No. 2|||	Ohio.....				.07	T.		.28	.89	.06	.54	.29	.03	.31	T.	.73	.08	.05											2.02		.23	.15	.02	.12	5.95		
Lock No. 4|||	Monongahela.....			.13	.30	T.		.58	.58	.23	.46	1.35	.01	.41	.02	.47	.11	.15									.20		T.	.25		.20	.36	.08	6.01		
Lock No. 5|||	Allegheny.....			.04	.18			.98	.57	.02	.08	.35		.31	.30	.76	.07	.05	.04								.43		.15	1.15	.23	.10	.32	.04	7.18		
Lycippus.....	Conemaugh.....			T.	.89	.23		.12	.06	.68	.09	1.02	.40	.01	.33	.21	.10	.30									.40		.65	.20	.38	.25	.42	.26	.05	7.15	
McKeesport|||	Monongahela.....			.20	.21	.01		.52	.39	T.	.73	1.36	.02	.35	T.	.57	.06	.07	T.								.59			.47	T.	.49	.27		.29	6.70	
Meadville.....	Allegheny.....			.20	.34			.45		.15	.12	.07	.06		.13	.03		.54											1.22	.04	.47		.05		3.87		
Mosgrove.....	do.....			.05	.17	.01		.64	.53	T.	.45	1.43		.10	T.	.78	.13	.05	.08										.05	1.15	.86	.30	.27	.16	7.23		
Mount Lebanon.....	Ohio.....			.14	.30	.06	T.	.18	.79	.01	.63	.66	.75	.38	.01	.45	.57	.08	.05	T.						.70		T.		.49	.07	.03	.39	.02	.54	7.41	
Natrona|||	Allegheny.....			.02	.13	T.		.62	.63	.02	.78	.30	T.	.32	T.	.60	.04	.08	.02								.20		1.28		.36	.16	.13	.43	6.12		
New Castle|||	Beaver.....			T.	.19	.03		.37	.08	.06	.42	.25	.09	.07	.01	.33	.02	.07	.01							.01		T.	.20	.01	.25	.09	.01	.24	3.91		
Newell.....	Monongahela.....			.25	.45			.79		.17	.65	.59	.45		.60	.20	.23										.65		.25	.35		.35			5.98		
Parkers Landing|||	Allegheny.....			.22	.13	T.		.42	.26	T.	.53	.33		.22	.35	T.	.03	T.								T.	.34		.53		1.34		.41	.15	T.	4.91	
Pennline|||	Beaver.....				.61	.05		.36	.02		.22	.09		.05	.04	.08	T.	.18	.20											.07	.12		.26		.15	2.50	
Pittsburgh***	Ohio.....			.15	.32	.02		.31	.34		.66	.87	.03	.34	T.	.91	.28	.04	T.							.20			1.35	T.	.02	.36	T.	.35	T.	6.55	
Punxsutawney|||	Allegheny.....				.76	T.		.48	.39	T.	.62	.60		.15		.51	.06		.40											.07		.28	.12	.46	.59	6.38	
Ridgway.....	do.....			.24	.77	.19		.55	.42	T.	.30	.32		.04	.01	.12	.05	.10	.23										.02		.08		.30	.54	.51	4.91	
Saltsburg|||	Conemaugh.....			.23	.18	.02		.30	.36	.02	.88	1.25		.34	T.	1.80	.16	.16	.02											.10		.14		.15	.14	.32	7.92
Sharon|||	Beaver.....			.22	T.			.42	.05	.04	.38	.18		.08	.04	.18	T.	.06	T.									.02		.14		.15	.09	.38	T.	3.71	
Smethport.....	Allegheny.....			1.69	.94	.12		.45	.47		.14	.12	.01	T.	T.	.16	.01	T.	.84								.25		.10	1.95	T.	.38	.03	1.30	.22	9.18	
Somerset.....	Youghiogheny.....			.34	.57	.27	.01	.18	.85		.67	.21	.83	.30	.08	.24	.14	.01	.45	.07							.35	.09		.20	1.06	.19	.78	.08	.24	7.85	
Springdale|||	Allegheny.....			.16	.17			.60	.70	.07	.76	.46	.02	.29	.01	.86	.10	.06	.01									.76			1.69		.12	.32	.12	8.30	
Uniontown.....																																					

Stations

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum.....	79	81	72	63	60	49	68	52	54	68	60	64	74	70	74	67	72	77	78	86	78	76	78	80	80	85	86	77	80	72	73	72.0		
	Minimum.....	56	59	60	46	39	46	45	43	42	45	40	46	55	59	52	54	42	44	49	49	60	49	49	54	60	59	65	63	57	62	63	52.0		
Altoona.....	Maximum.....	76	71	63	67	62	50	57	55	52	67	61	61	60	66	71	71	71	76	82	86	75	76	80	85	81	81	73	73	78	77	71	70.8		
	Minimum.....	48	54	52	41	39	43	47	40	40	49	40	50	55	58	50	50	40	45	46	63	59	43	44	58	62	52	61	58	54	56	54	50.6		
Bedford.....	Maximum.....	79	81	65	70	69	53	64	61	54	69	66	68	78	79	71	72	74	81	85	90	74	80	84	89	81	86	79	73	82	78	77	74.0		
	Minimum.....	49	53	54	44	43	41	45	44	43	44	44	54	63	59	52	51	52	50	48	47	61	67	44	42	57	60	58	62	57	54	57	55	51.3	
Bellefonte.....	Maximum.....	75	77	61	64	56	50	60	49	51	66	57	64	54	76	66	72	55	72	78	79	82	74	75	79	83	81	83	74	73	78	73	68	69.4	
	Minimum.....	58	57	47	42	35	45	47	40	43	44	38	52	54	51	50	47	41	44	47	62	49	42	44	55	58	50	60	57	53	58	52	49.1		
Brookville.....	Maximum.....	80	82	79	58	66	59	56	58	50	57	66	67	78	77	77	72	60	73	81	83	84	75	79	86	86	83	81	75	78	79	81	73.5		
	Minimum.....	40	47	52	41	32	45	36	31	42	44	31	45	50	53	33	50	34	37	41	55	38	34	36	49	56	45	60	57	50	54	50	44.1		
Butler.....	Maximum.....	78	78	65	61	62	57	57	55	60	65	63	76	74	73	70	68	79	80	81	84	83	77	86	84	83	84	79	75	76	75	70	72.8		
	Minimum.....	51	51	51	43	44	44	46	39	43	45	40	51	63	51	43	53	40	50	54	55	40	36	32	59	63	54	64	54	52	54	53	45	49.2	
Carlisle.....	Maximum.....	82	84	77	71	71	51	69	69	52	75	73	63	61	81	76	76	75	78	82	83	91	80	81	82	92	87	90	86	82	84	74	74	77.1	
	Minimum.....	55	59	58	47	36	47	48	43	53	41	43	53	60	64	54	52	45	45	45	57	60	51	47	58	62	60	65	62	56	60	60	53.8		
Catawissa.....	Maximum.....	80	83	77	67	62	52	70	58	53	72	63	65	81	72	62	58	80	86	83	93	84	80	82	85	85	89	85	82	84	79	72	75.8		
	Minimum.....	58	60	50	43	35	47	44	38	43	43	38	49	60	58	45	47	44	45	42	55	49	44	44	55	48	54	65	60	59	59	61	49.2		
Chambersburg.....	Maximum.....	80	81	72	69	62	53	66	61	53	78	68	66	79	81	78	71	76	81	82	91	78	80	81	92	87	89	84	80	84	73	73	75.8		
	Minimum.....	50	55	57	47	40	46	48	43	42	51	44	52	52	55	55	53	50	46	47	58	61	47	48	58	63	59	67	60	56	59	59	52.8		
Chambersville.....	Maximum.....	84	82	62	66	67	57	58	55	65	68	64	74	77	69	71	71	73	80	82	85	76	76	84	85	81	85	80	77	82	73	70	73.5		
	Minimum.....	61	59	47	42	41	45	48	42	42	54	42	52	61	54	46	52	41	46	49	61	57	38	41	57	60	53	62	52	53	54	62	50.8		
Claysville.....	Maximum.....	85	77	61	66	63	65	66	63	69	68	73	78	74	70	68	74	80	83	86	81	75	88	88	83	88	86	83	88	86	80	78	73	75.5	
	Minimum.....	61	58	46	42	44	50	50	49	42	51	45	58	65	57	49	52	46	43	52	64	53	41	46	65	61	60	64	56	56	60	50	52.8		
Clearfield.....	Maximum.....	83	84	61	72	59	53	61	58	54	69	70	73	79	67	74	76	65	72	79	77	88	81	78	78	89	83	88	90	79	83	80	77	74.8	
	Minimum.....	39	44	53	42	36	45	47	41	41	49	39	48	54	55	42	52	39	42	45	59	53	40	39	54	53	50	59	53	60	56	54	47.8		
Coatesville.....	Maximum.....	79	80	74	66	63	51	68	58	56	74	63	67	76	71	76	65	72	79	77	88	81	78	78	89	83	88	90	79	83	80	77	74.8		
	Minimum.....	54	56	60	46	39	46	42	43	50	44	44	57	61	56	48	45	53	47	48	60	61	52	55	54	60	63	67	65	67	64	61	53.4		
Corry.....	Maximum.....	81	73	58	65	55	55	66	66	52	62	76	80	80	73	69	67	73	79	78	83	74	84	78	81	61	79	82	77	72	67	72	67.4		
	Minimum.....	52	57	41	31	38	45	43	39	40	41	39	51	60	52	43	48	38	42	46	56	41	35	36	52	61	50	52	52	50	47	46	45.8		
Coudersport.....	Maximum.....	79	74	60	58	58	.....	64	49	58	65	78	.....	.....	.....	.....	.....	79	67	73	80	80	.....	75	83	76	81	83	.....	75	75	65	.....	
	Minimum.....	43	56	51	36	26	.....	30	38	45	32	42	.....	.....	.....	38	46	36	40	41	.....	.....	87	35	44	60	44	.....	.....	48	54	49	.....	
Emporium.....	Maximum.....	78	74	61	62	57	53	65	55	52	62	66	76	78	70	73	59	72	78	79	82	74	73	82	82	82	83	72	70	74	75	68	70.5		
	Minimum.....	53	53	49	42	32	47	50	50	35	42	50	48	57	56	42	52	40	43	45	59	52	40	48	61	50	63	54	54	55	58	48.9			
Erie.....	Maximum.....	82	75	60	49	61	54	61	47	56	56	58	82	77	65	67	56	67	72	80	79	61	65	74	79	75	82	71	71	80	76	64	67.8		
	Minimum.....	60	60	42	39	40	44	43	41	42	41	46	56	58	54	49	48	46	53	59	53	48	45	50	65	67	62	58	60	60	57	53	51.6		
Franklin.....	Maximum.....	83	78	59	65	62	61	60	51	63	62	70	78	75	70	72	59	73	81	82	82	71	77	87	85	84	84	72	80	79	75	68	72.5		
	Minimum.....	59	59	53	39	36	44	46	40	42	44	40	45	55	55	44	51	38	40	45	56	54	37	39	54	61	51	59	52	52	52	50	48.1		
Freeland.....	Maximum.....	73	76	68	59	62	52	63	58	52	59	57	64	72	69	73	62	69	77	79	84	70	72	77	78	78	83	83	70	80	70	70	69.6		
	Minimum.....	52	55	55	37	34	40	41	40	38	45	40	47	55	53	58	44	42	51	53	59	55	47	51	58	59	57	64	55	58	57	58	50.3		
Gettysburg.....	Maximum.....	80	81	74	68	64	51	66	64	52	78	70	64	81	82	74	71	73	79	79	88	80	78	79	90	85	88	86	82	91	75	73	75.7		
	Minimum.....	55	57	53	48	41	47	47	43	42	51	45	54	59	68	55	54	48	47	49	60	62	52	49	61	65	62	66	63	58	61	62	54.3		
Greensburg.....	Maximum.....	82	78	60	65	62	61	64	60	67	67	69	72	75	67	70	70	78	80	82	84	75	75	85	90	85	82	80	85	82	75	80	76	72	73.9
	Minimum.....	56	59	51	42	43	48	49	46	43	53	45	55	63	56	51	53	46	52	54	60	56	43	47	63	62	61	63	60	57	58	55	53.2		
Grove City.....	Maximum.....	79	79	68	64	61	61	58	56	69	63	68	73	73	65	65	65	70	76	78	80	74	71	82	81	80	83	83	76	74	71	66	71	60.8	
	Minimum.....	57	58	45	41	41	46	45	44	42	45	42	43	60	52	51	51	43	49	57	59	54	39	50	63	62	58	63	55	51	57	51	51.4		
Hamburg.....	Maximum.....	77	77	73	70	63	58	63	60	55	72	71	66	67	68	73	72	72	78	77	78	76	77	79	82	82	85	86	84	80	76	75	73.3		
	Minimum.....	49	48	48	38	40	46	50	50	45	50	48	46	42	39	40	50	42	40	42	50	48	46	47	49	58	55	64	60	53	58	55	48.3		
Harrisburg.....	Maximum.....	75	79	70	64	56	51	67	56	53	73	57	64	79	74	73	64	73	78	78	87	78	76	79	88	83	85	84	77	80	74	72	72.6		
	Minimum.....	59	60	53	47	43	47	49	44	43	52	46	54	58	60	57	51	52	52	54	62	64	59	54	61	65	64	67	64	61	64	60	55.7		
Hawley.....	Maximum.....	79	78	76	67	63	62	70	68	57	62	65	78	76	75	76	71	76	82	83	85	79	75	82	78	80	87	84	77	82	71	73	74.7		
	Minimum.....	52	54	58	41	29	43	39	31	43	42	34	41	57	57	44	49	36	38	43	55	35	39	52	59	49	60	54							



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXVIII.

JUNE, 1933.

No. 6.

GENERAL SUMMARY.

June as a whole was hot and dry with an abundance of sunshine. The rainfall averaged about forty per cent below the normal, it being the driest June during the last twenty years. Excessive rains in May had soaked the ground to a considerable depth, and helped to diminish the effects of the June shortage, but at the close of the month all vegetation was needing rain. The temperature excess was fairly large despite an unusually cold period with widespread frosts in the middle of the month. Maximum temperatures of 100 degrees or higher were recorded at twenty stations, and a new June high was established with 107 degrees at Sharon on the 8th. The growth and development of all crops, excepting the winter grains, was checked somewhat by the cold period from the 13th to 16th inclusive, and considerable damage was done to corn and truck crops by frost and freezing. A constant temperature excess during the last ten days stimulated the growth of corn, and ripened the winter grains rapidly, but had a damaging effect on pastures, meadows, and truck crops which were needing rain. Rye harvest was in progress and wheat harvest was beginning at the close of the month. Conditions during the last half of the month were favorable for haying, and a heavy crop was secured with small losses in curing. Pastures were excellent during the first half of the month, and then deteriorated slowly as the top soil dried out. Orchard fruits were not very promising. Apples promised a little more than half of a crop, or about the same as that of the preceding year. A small crop of cherries was gathered during the month. Strawberries were the best for many years, while raspberries and blackberries seemed better than usual. Many severe local storms were reported with considerable damage by winds, hail, and lightning. Two severe storms visited the Bethlehem region, one on the 8th and one on the 10th. Each of them did widespread damage, mostly of a minor character. Lightning was very severe, said to be the worst for many years, at Williamsport and Lock Haven on the 6th. On the 29th and 30th heavy storms were fairly general in the Delaware drainage basin, and occurred locally in other parts of the State. Many persons were injured by lightning, and three deaths were reported. At Jeddo, in the Hazleton district, an engine roundhouse was completely demolished by the wind, which is believed to have been a tornado although no funnel cloud was reported. Heavy hail fell at Greensburg on the 30th, and the cooperative observer reported

a hailstone that measured seven-and-one-half inches in circumference.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 84 stations, was 70.9°, which is 3.0° warmer than the June normal. The highest monthly mean was 77.2°, recorded at Sharon, and the lowest 60.8°, was reported from Gouldsboro. The highest temperature for the month was 107° at Sharon on the 8th, and the lowest was 28° at Somerset on the 15th. The greatest daily range in temperature was 52° at Hyndman on the 19th.

PRECIPITATION.

The average precipitation for the State, as shown by the reports of 146 stations, was 2.58 inches, which is a deficiency of 1.60 inches as compared with the June normal. The greatest monthly amount was 6.57 inches at Bloersville, and the least was 0.67 inch at New Castle. The greatest amount recorded in any 24 consecutive hours was 3.14 inches at Ardmore on the 26th.

COMPARATIVE DATA FOR JUNE

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average	.01 inch or more precip.	Clear	Partly cloudy	Cloudy
1888.....	68.4	+0.5	100	30	3.04	-1.14	6.90	1.08	.....	9	12	11	7
1889.....	66.7	-1.2	95	33	5.43	+1.25	10.04	2.71	.....	15	5	12	13
1890.....	70.1	+2.2	97	33	3.42	-0.76	5.74	1.30	.....	9	12	11	7
1891.....	68.2	+0.3	100	30	4.56	+0.32	9.30	1.22	.....	11	14	8	8
1892.....	71.8	+3.9	99	40	5.64	+1.46	10.55	1.83	.....	13	9	11	10
1893.....	69.8	+1.9	100	38	3.12	-1.06	6.50	1.20	.....	9	10	11	9
1894.....	69.6	+1.7	102	30	2.57	-1.61	5.31	0.61	.....	10	13	12	5
1895.....	71.4	+3.5	104	32	3.50	-0.68	9.21	0.69	.....	9	13	10	7
1896.....	67.4	-0.5	93	32	4.64	+0.46	9.11	1.89	.....	11	10	11	9
1897.....	64.8	-3.1	96	28	3.38	-0.80	6.42	1.11	.....	11	11	11	8
1898.....	69.6	+1.7	100	33	2.79	-1.39	6.96	0.56	.....	9	14	11	5
1899.....	69.9	+2.0	101	32	3.51	-0.67	5.97	0.65	.....	9	13	11	6
1900.....	69.9	+2.0	97	35	3.60	-0.58	10.29	1.35	.....	10	11	12	7
1901.....	69.1	+1.2	103	32	3.47	-0.71	7.61	0.88	.....	10	12	11	7
1902.....	66.0	-1.9	97	32	5.97	+1.79	8.93	3.35	.....	13	11	12	7
1903.....	63.5	-4.4	90	34	6.53	+2.35	11.76	3.74	.....	15	7	10	13
1904.....	67.9	0.0	96	32	4.06	-0.12	6.67	1.62	.....	13	12	10	8
1905.....	68.0	+0.1	99	30	4.39	+0.21	8.35	1.77	.....	13	11	10	9
1906.....	69.3	+1.4	97	28	5.43	+1.25	10.29	1.40	.....	13	11	12	7
1907.....	63.6	-4.3	98	30	4.99	+0.81	8.55	2.79	.....	12	11	9	10
1908.....	68.8	+0.9	102	28	2.36	-1.82	4.61	0.58	.....	7	19	9	2
1909.....	68.8	+0.9	96	34	4.48	+0.30	8.95	1.89	.....	13	12	9	9
1910.....	65.4	-2.5	95	32	4.31	+0.13	8.68	1.33	.....	11	12	8	10
1911.....	68.3	+0.4	99	38	4.71	+0.53	10.11	2.13	.....	12	12	10	8
1912.....	65.6	-2.3	96	29	3.36	-0.82	8.58	0.79	.....	8	13	9	8
1913.....	68.2	+0.3	99	20	2.26	-1.92	7.61	0.66	.....	7	19	7	4
1914.....	68.6	+0.7	101	25	3.71	-0.47	7.05	1.17	.....	9	16	8	6
1915.....	65.6	-2.3	92	31	4.00	-0.18	6.80	1.51	.....	11	14	10	6
1916.....	63.7	-4.2	89	28	6.14	+1.96	12.45	2.83	.....	15	11	10	9
1917.....	66.8	-1.1	92	32	5.38	+1.20	9.85	2.25	.....	14	12	11	7
1918.....	66.0	-1.9	98	29	3.46	-0.72	6.83	0.44	.....	10	13	11	6
1919.....	71.2	+3.3	102	32	3.90	-0.28	9.17	1.74	.....	10	16	9	5
1920.....	67.0	-0.9	99	32	4.97	+0.79	8.37	2.25	.....	13	12	11	7
1921.....	70.6	+2.7	101	26	3.12	-1.06	9.86	0.70	.....	8	17	9	4
1922.....	69.5	+1.6	96	30	5.11	+0.93	12.46	1.78	.....	13	11	11	8
1923.....	70.9	+3.0	103	32	2.73	-1.45	7.99	0.41	.....	9	16	9	5
1924.....	65.8	-2.1	98	26	5.57	+1.39	9.75	2.23	.....	15	11	11	8
1925.....	71.9	+4.0	104	29	3.04	-1.14	7.02	0.62	.....	9	16	11	3
1926.....	64.1	-3.8	94	23	3.63	-0.55	6.56	1.20	.....	12	13	10	7
1927.....	63.8	-4.1	99	25	3.72	-0.46	6.78	1.59	.....	9	15	8	7
1928.....	65.5	-2.4	93	30	7.96	+3.78	13.14	3.96	.....	17	9	9	12
1929.....	67.8	-0.1	98	28	3.56	-0.62	6.77	1.10	.....	10	15	10	5
1930.....	69.1	+1.2	100	22	4.20	+0.02	13.02	1.56	.....	9	17	8	5
1931.....	68.5	+0.6	102	28	3.71	-0.47	8.08	1.23	.....	9	16	8	6
1932.....	68.5	+0.6	98	26	3.15	-1.03	7.08	0.73	.....	11	13	9	8
1933.....	70.9	+3.0	107	28	2.58	-1.60	6.57	0.67	.....	9	18	8	4
Period.....	67.9	.....	107	20	4.18	.....	13.14	0.41	.....	11	13	10	7

Climatological Data for June, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	21	70.2	+0.8	98	9	40	15	41	2.51	-0.94	1.22	0	11	21	3	6	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	46	69.8	+3.5	96	30	36	15	38	1.69	-2.17	0.97	0	6	26	3	1	w.	F. E. Rooney.
Ardmore.....	Montgomery.....	350	1	73.6	+3.5	102	9	41	15	40	4.57	+0.59	3.14	0	9	.....	.....	.....	.....	H. G. Balderston.
Arendtsville.....	Adams.....	700	11	71.2 ^a	+0.9	98 ^a	8	39 ^a	15	40 ^a	1.63	-2.79	0.94	0	6	22	4	4	n.	Dr. S. W. Frost.
Bedford.....	Bedford.....	1,060	1	71.5	.....	98	9†	35	15	40	2.44	.....	1.01	0	8	23	5	2	nw.	Charles C. Lee.
Bellefonte.....	Center.....	1,050	25	68.3	-0.4	93	8	38	2	38	2.87	-2.01	1.08	0	10	5	20	5	.....	U. S. Weather Bureau.
Bethlehem.....	Northampton.....	364	48	73.7	+3.5	100	9	43	15	32	1.74	-2.30	0.55	0	9	23	2	5	w.	Lehigh University.
Carlisle.....	Cumberland.....	467	67	74.2	+3.2	100	9†	39	15	41	2.56	-1.52	1.23	0	10	25	3	2	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	37	72.2	+4.0	101	9†	38	2	48	3.39	-0.58	0.82	0	9	23	3	4	.....	W. L. Gearhart.
Center Hill.....	Center.....	1,272	37	69.0	+3.0	97	9	41	15	40	2.55	-1.87	1.50	0	6	22	6	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	34	73.4	+4.0	102	9	40	15	43	1.37	-2.74	0.48	0	7	16	12	2	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	26	69.0	+2.1	95	29	36	15	39	2.46	-2.50	0.95	0	7	18	11	1	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	46	72.8	+2.8	99	9	44	15	38	3.66	-0.41	2.55	0	10	20	3	7	nw.	Howard L. Pyle.
Colebrook.....	Lebanon.....	560	22	69.2	+1.1	93	9†	40	2	41	1.93	-2.29	0.87	0	11	24	3	3	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	46	65.2	-0.6	91	29	40	15†	35	4.34	-0.16	1.23	0	8	15	11	4	n.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	41	74.4	+5.9	101	9	43	15	44	1.99	-2.33	0.74	0	8	19	7	4	n.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	40	68.2	+3.6	92	9†	38	15	35	2.89	-1.65	0.80	0	11	10	14	6	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	27	72.5	+3.9	98	9	42	15	39	2.15	-1.22	0.97	0	8	22	5	3	sw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	60	73.8	+3.9	97	9	42	15	39	3.34	-0.57	1.50	0	9	22	4	4	nw.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	29	67.4	+1.8	92	9†	36	2	45	2.24	-2.30	0.60	0	10	20	7	3	w.	Sallie M. Johnson.
Gouldsboro.....	Wayne.....	1,875	18	60.8	.....	97	29	33	21	35	2.15	-2.84	0.85	0	8	16	8	6	sw.	Gustav Holtz.
Hamburg.....	Berks.....	535	40	70.4	+1.4	96	9†	39	16	31	1.98	-2.23	0.47	0	9	18	1	11	w.	State Sanatorium.
Hanover.....	York.....	600	29	74.6	+3.7	98	9	42	15	39	4.12	+0.13	2.27	0	9	22	4	4	n.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	64	73.4	+3.1	97	9	48	15	34	3.46	-0.13	1.00	0	12	7	15	8	w.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	15	68.0	+1.7	97	9†	33	2	46	1.53	-2.26	0.81	0	6	17	13	0	w.	Mrs. Della M. Pennell.
Holtwood.....	Lancaster.....	200	18	74.5	+2.9	95	9†	52	15	32	3.37	+0.03	1.10	0	7	16	9	5	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	46	71.5 ^a	+3.2	98 ^a	9†	39 ^a	2†	41 ^a	1.51	-2.77	0.73	0	7	21	8	1	w.	Prof. Paul R. Yoder.
Hyndman.....	Bedford.....	977	21	72.6	+5.2	103	9	33	15	52	2.59	-2.20	0.91	0	9	15	9	6	.....	Horace A. Sheavly.
Lancaster.....	Lancaster.....	255	46	70.2	+0.2	98	9	38	1†	47	2.66	-1.31	1.10	0	8	23	5	2	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	36	70.0 ^b	+4.4	100 ^b	29	35 ^b	15	44 ^b	3.86	-0.10	1.22	0	8	17	11	2	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	49	72.8	+3.2	100	9	44	2†	40	2.45	-1.70	0.99	0	8	25	4	1	nw.	Lebanon Valley Gas Co.
Lewisburg.....	Union.....	450	57	73.5	+4.5	100	9†	42	2	41	2.68	-1.53	1.31	0	9	22	3	5	sw.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	43	74.2	+4.7	104	9	42	2†	43	2.81	-1.54	1.27	0	11	16	12	2	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	18	71.3	+3.8	100	9	36	15	49	1.59	-8.22	0.75	0	7	19	9	2	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	6	76.4 ^a	.....	99 ^a	9	46 ^a	15	36 ^a	4.20	.....	1.56	0	8	20	5	5	ne.	Sun Oil Co.
Mauch Chunk.....	Carbon.....	600	44	73.6	+5.8	100	9	51	14	44	3.15	-1.27	1.27	0	8	25	4	1	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	29	74.1	+5.7	101	9†	41	2	43	1.76	-2.67	0.60	0	7	23	6	1	w.	W. H. Manbeck.
Montrose.....	Susquehanna.....	1,658	29	65.5	+2.3	90	9†	38	14	36	2.48	-1.62	1.80	0	5	18	9	3	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,720	27	61.0	-0.7	92	9	33	15	37	3.60	-1.65	1.00	0	9	20	7	3	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	21	67.4	+2.2	96	29	35 ^a	2	44 ^a	2.60	-2.33	0.92	0	9	22	4	4	w.	H. O. Hacker.
Neshaminy Falls II.....	Bucks.....	60	44	71.6	+3.0	98	9	45	15	40	3.22	-0.54	0.74	0	10	19	7	4	w.	Philadelphia Sub. Water Co.
Palmerton.....	Carbon.....	398	15	70.4	.....	96	9	39	15	40	2.64	-1.59	0.89	0	10	13	14	3	sw.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	62	74.4	+5.0	98	9	50	15	32	4.78	+1.54	1.49	0	10	11	13	6	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	9	74.9	.....	100	9	47	15	34	4.58	.....	1.43	0	9	8	18	4	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	23	74.2	+3.2	102	9†	41	15	42	1.47	-2.14	0.45	0	8	20	10	0	s.	Philadelphia Sub. Water Co.
Quakertown.....	Bucks.....	496	48	70.3	+2.0	97	9	37	15	39	2.40	-1.22	0.71	0	10	19	9	2	nw.	John E. Beumer.
Reading.....	Berks.....	514	63	72.4	+2.6	98	9	45	15	36	1.77	-1.78	0.53	0	9	8	15	7	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	39	70.2	+2.4	96	9	41	2	35	2.92	-0.75	1.62	0	16	7	19	4	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	43	72.0	+3.1	96	9†	40	2	42	1.90	-2.30	0.71	0	9	18	12	0	sw.	Dr. George E. Fisher.
Shawmont II.....	Philadelphia.....	51	37	74.0	+2.0	99	9	45	15	35	2.19	-1.30	0.64	0	8	16	9	5	s.	W. S. Guiles.
State College.....	Center.....	1,217	49	70.9	+4.5	96	29	40	15	38	2.38	-1.91	0.86	0	12	16	12	2	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	19	.....	.....	.....	.....	33	15	.....	1.55	-2.95	0.45	0	4	18	6	6	nw.	State Normal School.
Towanda.....	Bradford.....	754	39	69.2	+3.7	98	29	38	2	42	3.08	-0.73	1.56	0	10	13	7	10	sw.	Mrs. M. Ordella Parks.
Wellsboro.....	Tioga.....	1,419	63	68.3	+4.0	99	29	34	2	46	1.33	-2.66	0.45	0	6	24	5	1	sw.	George W. Hill.
West Chester.....	Chester.....	455	84	71.9	+2.4	95	9	44	15	32	1.97	-2.30	0.80	0	7	16	11	3	n.	Joseph W. Belt.
Williamsport.....	Lycippus.....	521	47	72.4	+3.6	100	29	42	2	42	2.51	-1.42	1.26	0	8	13	13	4	nw.	Miss Veronica E. April.
York.....	York.....	400	45	72.6	+2.7	99	9	39	2	44	2.34	-1.24	1.01	0	9	22	6	2	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam II.....	Beaver.....	700	41	.....	.....	96 ^a	21†	40 ^a	1	38 ^a	1.49	-3.12	1.12	0	6	13	9	8	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,460	14	.....	.....	96 ^a	21†	40 ^a	1	38 ^a	1.49	-3.12	1.12	0	6	13	9	8	sw.	Supt. Timber Pres. Plant.
Brookville.....	Jefferson.....	1,173	43	67.2	+4.0	98	29	30	15	47	2.71	-1.52	1.08	0	7	18	5	7	</	

Daily Precipitation for June, 1933

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.12			.29			.06	.28		1.22			.10				.08	.10		.05						.05	.16	T.				2.51	
Altoona	Juniata				.29	T.	.48	.49		.34				.02			T.	.07									T.						1.69	
Ansonia	W. Br. Susq.				T.	.24		.66						.03			.06					.06					.53	.13					1.71	
Ardmore	Lower Del.		.10				.12	.15						.44				.02					.06				.04	3.14	.16		.40		4.57	
Arendtsville	Lower Susq.							.94	.09		.20						.17											.14	.09				1.63	
Baker's Summit	Juniata		.02		.04		.14	.36		.14							.04	.17									.12	.39			.11		1.53	
Bedford	Juniata			.18	.24	T.	.06	.95									.13	.38									.27	.23					2.44	
Bellefonte	W. Br. Susq.	T.	T.	.86			.55	.01	.05						T.	T.	T.	T.		T.		.10	T.			.01	1.07	.01	.16	T.	.05		2.87	
Bethlehem	Lehigh		.31		.16		.33		.55		.02	.16					.07	.01					T.				.13	T.					1.74	
Blosserville	Lower Susq.		.30	.35	.30		.35		2.40								.65										.48	1.60			.14		6.57	
Buffalo Mills	Juniata		.28	.11	.05		.46		.75		.75						.55												.60				2.80	
Carlisle	Lower Susq.	T.	.02	.27	.15		.48	.75	T.	.08							.03	.18									T.	.60			.09		2.65	
Catawissa	N. Br. Susq.	T.		T.	.65		.43	.18		.82				.06			T.							.43			.01	.06			.75		3.39	
Center Hall	Susquehanna					1.50	.18				.55													.10				.10		.12			2.55	
Chambersburg	Potomac				T.			.08	.42		.48			T.			.11	.16									.10	.02					1.37	
Clearfield	W. Br. Susq.		.06	.95	.05		.20	.80									.05	.05		T.			T.		T.		.06	T.			.30		2.46	
Coatesville	Lower Del.		.02				.20	.08					.04	.38			.05	.03							T.		2.55	.20			.11		3.66	
Colebrook	Lower Susq.		.02	T.	.05	.34	.53		.19		.09	.02					.06	.04		T.								.06			.53		1.93	
Conshohocken	Schuylkill		.07				.06	.13						1.42			T.	.03										.41	.63				2.75	
Cresson	Juniata		.24	.35			.89		.29								.03	.16									.08	.04	.84				2.92	
Doylestown	Lower Del.			.85		.25	.22	.09		.01				.55			.14	.08										.11	.04				2.34	
Emporium	W. Br. Susq.	.18			.73		.26				.77	T.					T.				T.		T.			.15	1.23	.79			.23		4.34	
Ephrata	Lower Susq.					.31	.24		.28		.01			.74			.03	.03										.35	T.				1.99	
Forest City	N. Br. Susq.		.25	.56	2.70	.48											.01		.09									T.	T.	.02	.21		4.35	
Freeland	Lehigh		.29		.38			.80		.30				.63			.01		.02		.03						.20	.21	.02				2.89	
Galeton	W. Br. Susq.			.42		.44	.50				.06						.07		.02									.02			.24		2.39	
George School	Lower Del.	T.		.97		.08		.25						.32			.10	.09	T.									.14	.20				2.15	
Gettysburg	Potomac			.01		.41	.64		.12					.42			.07	.17				T.						1.47	.03				3.34	
Girardville	Lower Susq.		.03		.32		.84		.66								.02				.06						.32	.25			.36		2.86	
Gordon	Lower Susq.			.06	.20	.30	.27		.60								.05				.06		T.					.48	.21	.01			2.24	
Gouldsboro	Lehigh		.85		.45		.55							.15			.03												.02	.03		.07		2.15
Graterford	Schuylkill		.06	.03		.18								.53														.02					0.82	
Hamburg	Schuylkill		.22	.27	.30	.30		.47		.24							.04	.33										.03	.07	T.		.10		1.98
Hanover	Lower Susq.		.01				1.17		.11		.11	2.27					.02	.33											.04				4.12	
Harrisburg	Lower Susq.	.05		.22		.94	.06	.88	.03		.01				T.		.05	.38				T.						.44	.17		.23		3.46	
Hawley	Upper Del.		.12	.34	.81		.14										.01		.02		.04							.08	T.	T.			1.53	
Hollisterville	Upper Del.		.06	.04	.70		.35							.03			.01		.02				T.					T.					1.21	
Holtwood	Lower Susq.	T.		.05			.90		T.		1.10						.22	.05										T.	.75	.05		.30		3.37
Huntingdon	Juniata			.06			.73		.37								.04	.05										.05			.21		1.51	
Hyndman	Potomac		.46	.03		.02	.45		.91								.05	.39										.12	.16				2.59	
Kylertown	W. B. Susq.			.34	.80	.22	.61								T.		.05							.05				.82			.27		3.16	
Lakeville	Upper Del.		.13	.25	.38		.08							.01														.09					0.94	
Lancaster	Lower Susq.		.07		.05		.36				.05	.73					.07	.23											1.10				2.66	
Lansford	Lehigh				.17		.63		.91								.03							.23				.48		.85	.13	.07	3.50	
Lawrenceville	N. Br. Susq.		.20		1.22					.30	T.	T.					.05							.12		1.10		.55			.32		3.86	
Lebanon	Lower Susq.		.05		.31		.99										.04			T.								.09	.17		.79		2.45	
Lewisburg	W. Br. Susq.		.02	T.	.64	.88	.43		.03								.08											.22	.08		.30		2.68	
Lock Haven	W. Br. Susq.		.06	.18	.98	.29	.54				.05			.02			.04										.59	.02	.04				2.81	
Lykens	Susquehanna		.02		.22	.38	.14		.75								.02											T.	.06				1.59	
Marcus Hook	Lower Del.		.27		*	.38					.90						T.	.30										.09		.70		1.56	4.20	
Matamoras	Upper Del.		.39	.34	.89																										.37		1.99	
Mauch Chunk	Lehigh			.27	.48	.15		1.27													.06		.16					T.	.06		.70		3.15	
Mifflintown	Juniata			.15	.30	.28	.32		.46		.12						T.	.13										T.					1.76	
Montrose	N. Br. Susq.	.10		.30	1.30	.18															.10								T.				2.48	
Morris Run	N. Br. Susq.	.04		.06	.63	.62	.23				.02						.13				.11		.16								.33		3.41	
Mount Pocono	Upper Del.	.30	.52		.48		.10</																											

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Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage																																		
Beaver Dam|||	Ohio.....				.02	.31											.15	.97					.02					.12					1.49	
Beaver Falls|||	Beaver.....				.74	.12									T.	T.	.08	.85					.22										1.94	
Bradford.....	Allegheny.....								1.03								.05						.03									.07	2.71	
Brookville.....	do.....				.43	.96											.63	.03											.04			.15	1.57	
Butler.....	Ohio.....				.06	.01	.27	.30										.22	.53							.15	T.						4.46	
Chambersville.....	Allegheny.....			T.		.38		.43	.74		.02							.22	.53						.03	.131	.27	.50					.08	2.04
Clairton|||	Monongahela.....			.03	.68	T.	.03			.15								.33	.33				T.					.20	T.	.13		.16	1.57	
Claysville.....	Ohio.....				.15	.66	T.			.02							T.										.01	.09			.10			
Clymer|||	Conemaugh.....					.52	1.84										.60											.15	1.15	.10			4.36	
Confluence|||	Youghiogheny.....				.33	1.05			.85		.07							.04	.40									.05	.70	.12			3.61	
Corry.....	Allegheny.....				.35	.77		.79	1.09									.02	T.					.06				.22			T.		3.30	
Coudersport.....	Allegheny.....		.26			.30		1.21					.06			.02	.06								\$				\$			\$	\$1.91	
Derry.....	Conemaugh.....				.42	.05	.68	.68	.70									.27	.55									.15	.03	.05		.20	3.78	
Donora|||	Monongahela.....				.36	.62	.05			.16						T.		.20	.15									.07	.27				1.88	
Ebensburg.....	Conemaugh.....				.09	.17		1.02	.50		.38							.08	.41									.20				.02	2.87	
Elk Lick.....	Youghiogheny.....				.35	.40												.32	.40									.02	.72				2.21	
Franklin|||	Allegheny.....					.20	.14		1.14						.28			.05												.61			2.42	
Greensboro.....	Monongahela.....				.34	.80					.11						T.	.09	.39									.25	.45	.02			2.45	
Greensburg.....	Youghiogheny.....				.06	.45	.12	.02	.45		.10			T.	T.			.38	.59				.03		T.	.03	.05				.03		2.31	
Greenville.....	Beaver.....			T.	1.10	.12								T.			.03	.33	1.00								.90	.10					3.58	
Grove City.....	do.....																																1.32	
Herrs Isl. Dam|||	Ohio.....			T.	.25	T.		T.									T.	.09	.47					T.				.04				.47	3.31	
Irwin.....	Monongahela.....			.03	.32	.06	T.	.16		.28				T.				.65	.33					T.				T.	1.45			.03	3.39	
Johnstown.....	Conemaugh.....			.09	.03	.26		.22	.98		.34		.01	T.				.41	.58									.08	.05	.01	.26	.07		
Kane (near) |||	Allegheny.....					.86	.37	.33	.37						.01			.08					.06	.07					.31			.08	2.54	
Kregar|||	Youghiogheny.....			.65	.31	.20	.30	.65		.48			.03		T.	T.		.86	T.							.55	.05	.11	.03				4.22	
Lake Lynn|||	Monongahela.....				.42	1.05				.10						.02	.05	.38										.29	.24	.02			2.57	
Linesville|||	Beaver.....					.31	.18		.10					.03	.01		.05	.29					.05					.59	.57				2.18	
Lock No. 2|||	Ohio.....				.04	.35				.10							.19	.53										1.16					1.87	
Lock No. 4|||	Monongahela.....				.32	.46	.25			.03							.09	.53									.02	.09	.06	.02			2.04	
Lock No. 5|||	Allegheny.....				.07	.42			.57		.02					.02	.27	.63										.02	.02				3.26	
Lycippus.....	Conemaugh.....				.37	.20	.02	.07	.53		.87				T.		.17	.88									T.			.15				
McKeesport|||	Monongahela.....					.13	.72	.05		.19		T.				.02	.11	.43						T.				T.	.11		.11		1.87	
Meadville.....	Allegheny.....			.06	T.	.25		.33	.80				.06				.05						.06						.07	.04		.85	2.57	
Mosgrove.....	do.....				.03	.35			1.45					.03			.05	.52							.06				.02	.05			2.50	
Mount Lebanon.....	Ohio.....			.07	.88		.05							T.	T.	T.	.57	.11									T.		T.		T.	.11	1.97	
Mount Lebanon.....	Allegheny.....				.03	.09		.45		T.							.06	.71										.02	T.				1.38	
Natrona|||	Beaver.....		.01											.11	T.		.14	.29										.02	.03				0.67	
New Castle|||	Monongahela.....				.25	.80				.12							.20	.15											.30				1.82	
Newell.....	Allegheny.....					.46	.13		.98								.04	.30											.11	.18			2.22	
Parkers Landing|||	Allegheny.....																																	
Pennline|||	Beaver.....				.10	.29	.06								.15	T.	.04	.10							.12				.07	.07			1.00	
Pittsburgh***	Ohio.....			T.	.21	T.	T.	T.		T.						T.		.32	.24													.32	.07	1.16
Punxsutawney|||	Allegheny.....					.27		1.49																					.27				2.03	
Ridgway.....	do.....				.05	.45	.32		.91						.06		.07												.43	.04			2.42	
Saltsburg|||	Conemaugh.....				.41	.08	.13		1.89		.24						.01	.07	1.44									.02	1.25				5.55	
Sharon|||	Beaver.....				.34	T.										.12	.40							*					.03			.48	1.37	
Sharon|||	Allegheny.....				.15	.64		.99						T.	T.	T.	.15												.90	.31			3.14	
Smethport.....	Allegheny.....				.43	.34	.16	.31	.93		.48					T.	.20	.41											.01	.06			3.33	
Somersett.....	Youghiogheny.....																																	
Springdale|||	Allegheny.....				.59	.05	.26		.22		T.						.07	.70			T.				.01				.15				2.05	
Uniontown.....	Monongahela.....		T.		.42	.52			.14							T.		.33	.01									.05	.12	.01			1.60	
Unity Reservoir|||	Youghiogheny.....				.11	.55	.03	.02	.48		.27							.40	.54						.03						T.		2.48	
Vandergrift|||	Conemaugh.....				.72			.98	.39	.03								.33	.75												.02		3.22	
Vandergrift|||	Allegheny.....					1.00		.65	.61						.02		.04									.02	.08						2.44	
Warren.....	Allegheny.....									.03																								2.32
Waynesburg.....	Monongahela.....				.28	.51	.10		.03		.28						.45											.41	.06			.16	3.55	
Westford|||	Beaver.....			.10	.86	.10											.04	.43							.08				.68	1.26			3.55	
West Newton|||	Youghiogheny.....					.70				.11																			.03				1.48	
Lake Drainage.																																		
Erie***	Lake Erie.....			T.	.23	.30		1.18						T.			T.	T.							.01	.01						T.	T.	1.75

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * Included in next measurement.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. (trace) when precipitation is less than .01 inch. \$ Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox; of Lock No. 5, Schenley. † Mdt. to mdt.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations	Atmospheric pressure (reduced to sea level)					† Wind				Relative humidity			
	Mean	Highest.	Date	Lowest	Date	Average hourly velocity	Maximum * velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of sunshins
Erie.....	29.96	30.25	15	29.69	30	11.0	38	n.	7	74	72	71	79
Harrisburg.....	29.93	30.23	15	29.66	30	6.8	37	w.	9	71	52	56	75
Philadelphia.....	29.95	30.22	15	29.70	3	11.8	36	n.w.	7	68	48	57	65
Pittsburgh.....	29.98	30.32	15	29.73	30	8.8	38	n.w.	3	69	47	50	78
Reading.....	29.94	30.24	15	29.68	3	9.9	58	n.w.	7	67	49	59	66
Scranton.....	29.93	30.21	15	29.65	30	6.5	32	n.w.	7	70	48	54	74

Daily Temperatures for June, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum.....	70	73	87	84	84	85	89	93	98	85	88	90	66	61	69	67	77	74	81	78	92	84	85	85	87	78	82	85	94	89	82.0	
Altoona.....	Minimum.....	53	43	51	61	64	66	62	52	68	65	64	66	61	44	40	47	57	47	54	61	56	62	54	58	64	66	69	62	60	71	58.5	
Bedford.....	Maximum.....	72	76	86	82	84	85	90	94	95	87	93	86	76	57	69	66	76	72	87	92	95	85	83	83	87	83	86	93	93	96	83.6	
Brookville.....	Minimum.....	44	38	58	61	59	57	64	62	70	61	62	68	47	37	36	55	58	40	50	63	61	61	50	53	58	53	63	62	63	62	55.9	
Butler.....	Maximum.....	72	80	88	86	87	87	92	96	98	98	98	90	82	63	73	70	77	78	88	92	95	95	88	88	91	90	88	93	94	97	87.1	
Chambersburg.....	Minimum.....	45	41	48	59	59	59	61	63	68	64	59	62	51	38	35	56	58	39	48	57	57	64	53	55	60	59	66	65	64	65	55.9	
Clearfield.....	Maximum.....	70	76	86	82	80	83	86	93	92	84	88	82	61	56	68	65	77	73	85	92	93	82	82	83	86	82	88	90	92	92	81.6	
Coatesville.....	Minimum.....	43	38	50	58	59	56	58	60	67	61	59	58	47	42	40	53	46	43	53	57	57	55	47	54	60	64	65	65	65	67	55.0	
Coudersport.....	Maximum.....	79	70	71	84	86	82	87	92	97	101	93	95	90	80	62	77	68	80	77	85	96	101	82	86	87	93	89	94	93	100	95	84.3
Emporium.....	Minimum.....	43	51	35	43	51	52	53	59	62	58	53	58	40	34	30	50	54	31	44	50	52	58	43	47	57	59	60	59	59	60	50.2	
Franklin.....	Maximum.....	72	80	90	89	85	85	91	99	95	95	95	96	74	64	67	71	76	78	86	94	97	94	83	90	95	91	95	94	96	95	86.7	
Gettysburg.....	Minimum.....	39	45	55	50	53	57	61	63	70	73	63	65	46	39	32	52	58	38	50	58	58	60	49	54	61	62	62	61	63	65	55.4	
Greensburg.....	Maximum.....	73	81	92	88	86	89	92	96	100	97	95	94	84	74	64	73	70	84	81	84	99	100	97	90	88	93	90	91	96	99	88.8	
Harrisburg.....	Minimum.....	51	43	52	63	63	60	65	64	71	69	65	68	59	46	39	56	58	45	54	59	59	69	55	59	60	71	69	65	65	69	59.7	
Hawley.....	Maximum.....	80	82	95	87	82	87	92	97	101	93	95	90	80	62	77	68	80	77	85	96	101	82	86	87	93	89	94	93	100	95	87.5	
Johnstown.....	Minimum.....	42	38	47	58	55	60	58	62	69	65	62	68	54	42	44	54	47	73	50	58	57	63	54	49	66	68	66	67	67	70	56.8	
Lancaster.....	Maximum.....	70	79	93	89	87	90	93	97	102	91	95	95	83	62	74	67	81	77	90	98	99	91	91	90	93	87	91	93	95	97	88.0	
Lebanon.....	Minimum.....	51	42	60	61	63	59	63	64	71	68	66	61	55	44	40	56	58	44	51	61	61	69	56	59	59	70	58	66	66	68	58.7	
Mifflintown.....	Maximum.....	71	78	87	84	85	87	90	96	94	89	91	84	74	62	72	67	76	72	87	90	94	88	84	91	93	84	91	94	94	93	84.7	
Montrose.....	Minimum.....	43	41	49	57	58	55	63	61	72	61	58	62	46	33	32	51	57	35	48	56	57	59	50	54	61	61	62	64	64	65	54.6	
Pittsburgh.....	Maximum.....	72	82	88	87	86	88	95	100	98	95	96	95	96	72	62	73	62	73	64	81	81	94	96	99	95	97	92	90	96	95	88.4	
Reading.....	Minimum.....	41	44	54	57	62	60	66	68	74	61	59	68	49	35	31	52	58	41	50	60	58	60	52	60	69	66	64	62	69	70	57.4	
Scranton.....	Maximum.....	73	79	87	86	83	85	89	93	94	88	91	85	64	59	69	68	79	73	85	92	94	83	85	88	89	83	90	94	95	91	83.8	
State College.....	Minimum.....	43	40	48	55	58	56	60	60	67	60	58	60	46	39	36	52	51	37	49	60	56	63	46	52	60	58	63	64	64	64	54.2	
Stroudsburg.....	Maximum.....	70	76	89	86	90	88	93	99	97	92	94	77	64	54	47	71	71	81	77	83	84	94	91	88	84	89	85	84	88	92	84.7	
Towanda.....	Minimum.....	54	46	52	63	65	65	63	64	72	71	67	69	62	45	44	51	57	50	54	62	56	70	60	56	62	68	68	70	69	71	60.9	
Uniontown.....	Maximum.....	69	81	84	82	80	85	86	92	93	90	93	86	72	57	69	74	73	70	90	95	96	84	82	97	91	89	94	96	96	96	84.7	
Vandergrift.....	Minimum.....	37	40	51	54	54	58	58	62	59	72	58	58	67	39	49	32	52	58	37	50	56	63	58	49	48	65	67	60	68	65	54.5	
Warren.....	Maximum.....	68	77	85	72	78	73	77	82	82	75	80	75	70	53	60	65	62	71	80	82	82	73	70	74	75	77	88	89	91	90	75.1	
Waynesburg.....	Minimum.....	42	42	50	60	60	62	56	62	67	67	55	67	61	45	45	50	51	55	40	51	57	58	64	48	49	60	61	66	65	66	55.4	
Williamsport.....	Maximum.....	66	75	75	82	73	80	88	91	85	89	92	75	58	57	65	71	66	69	85	85	95	77	79	83	87	82	90	92	90	91	79.8	
York.....	Minimum.....	49	53	64	60	64	62	63	68	73	60	68	73	54	49	49	60	56	49	60	69	68	69	62	59	62	71	70	73	76	75	62.2	
.....	Maximum.....	70	75	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	50	58	58	100	86	88	95	91	85	98	99	95	86.2	
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99	93	95	97	78	63	58	43	38	53	58	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2
.....	Minimum.....	40	43	41	58	60	55	59	61	66	58	58	60	48	38	34	52	56	40	46	55	55	64	49	51	63	65	63	63	64	65	54.2	
.....	Maximum.....	70	85	86	86	80	94	91	99																								



CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

G. S. BLISS.

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GENERAL SUMMARY.

July averaged near the normal in both temperature and rainfall. A warm period that began the last week in June was broken on July 2d, after which the daily departures were small until a sharp rise began on the 29th, and the month closed intensely hot. The month began with a three days period of rains. At most places these rains constituted about one-half of the monthly precipitation, and there were no rains of consequence between the 3d and the 16th. In consequence, a muddy condition of the top soil changed to a hard, cloddy condition that made cultivation difficult and was detrimental to crops. Rains of the 16th and 17th were heavy enough to relieve this condition in about three-fourths of the State. During the last half of the month there were no heavy, general rains, but local showers were enough for needs in small areas totaling about one-half of the State. Elsewhere there were numerous complaints of local drought conditions. Wheat and rye harvest, which began near the end of June, was finished early in the month, about a week ahead of the usual time. The grains were discolored and otherwise damaged considerably by heavy rains while in the shock. The dry period between the 3d and 16th stunted oats at a time when the straw was developing, and a large part of the crop was so short that it was mown for hay. Corn grew rapidly in most places, and nearly made up the time that was lost by late planting. The greater portion of the crop was tasseled at the close of the month, and early fields were earing rapidly. Tobacco was not seriously affected by the drought, and made a good recovery after the rains of the 16th and 17th. At the end of the month it appeared to be about an average crop. Buckwheat was mostly in the regions of least rainfall, and was stunted beyond recovery. It promised to be one of the highest crops in recent years. There were the usual number of severe local storms. A severe electrical storm occurred in Williamsport and vicinity on the 1st in which several persons were injured, and buildings and trees damaged by lightning. Considerable damage was done in Gettysburg and vicinity on the 2d by a storm that seemed to be of tornadic character, although there were no reports of a funnel cloud. From the 22d to 25th inclusive severe storms occurred in many places. A heavy hailstorm in the region of Lock Haven on the 22d did damage estimated at upwards of \$100,000. On the same date lightning did much damage in Lebanon County. On the 24th excessive rains did much damage in Scranton, and on the 25th two men were killed by lightning near Philadelphia.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 87 stations, was 72.5°, which is 0.5° above the normal. The highest monthly mean was 78.6° at Marcus Hook, and the lowest was 61.5° at Gouldsboro. The highest temperature recorded was 104°, at Sharon on the 23d. The lowest temperature recorded was 35° at Mt. Pocono on the 4th. The greatest daily range in temperature was 50° at Franklin on the 27th.

PRECIPITATION.

The average precipitation for the State, as deduced from the observations taken at 145 well-distributed stations, was 4.26 inches, which is 0.03 inch less than the July normal. The greatest monthly amount was 9.13 inches at Lancaster, and the least was 1.12 inches at Erie. The greatest amount recorded in any 24 consecutive hours was 4.95 inches at Bloersville on the 2-3d.

COMPARATIVE DATA FOR JULY

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1888.....	69.2	-2.8	97	38	3.45	-0.84	7.10	1.40	.....	8	15	10	6
1889.....	71.6	-0.4	96	39	6.80	+2.51	15.02	1.04	.....	13	12	10	9
1890.....	70.7	-1.3	101	33	3.52	-0.77	6.40	0.70	.....	8	13	11	7
1891.....	67.8	-4.2	97	34	6.32	+2.03	11.61	2.63	.....	13	11	10	10
1892.....	73.1	+1.1	103	38	3.93	-0.36	8.59	2.15	.....	10	15	11	5
1893.....	72.1	+0.1	102	36	3.15	-1.14	6.27	1.58	.....	10	15	12	4
1894.....	73.8	+1.8	103	31	2.32	-1.97	5.96	0.53	.....	7	15	11	5
1895.....	69.1	-2.9	102	34	3.24	-1.05	6.13	1.16	.....	9	12	12	7
1896.....	72.8	+0.8	98	40	6.89	+2.60	15.59	3.04	.....	14	10	11	10
1897.....	73.4	+1.4	103	41	6.26	+1.97	14.51	2.10	.....	14	10	11	10
1898.....	74.8	+2.8	107	33	3.36	-0.93	6.29	1.15	.....	9	12	12	7
1899.....	72.3	+0.3	101	35	3.91	-0.38	8.24	1.53	.....	10	12	11	8
1900.....	74.0	+2.0	104	35	4.86	+0.57	8.26	1.81	.....	11	14	12	5
1901.....	76.4	+4.4	107	45	3.88	-0.41	7.34	1.52	.....	11	10	13	8
1902.....	71.8	-0.2	99	41	6.04	+1.75	12.35	2.11	.....	15	10	12	9
1903.....	71.2	-0.8	98	35	5.36	+1.07	8.81	1.76	.....	12	13	12	6
1904.....	70.6	-1.4	99	34	4.68	+0.39	9.19	1.92	.....	13	12	11	8
1905.....	72.6	+0.6	99	39	4.87	+0.58	9.78	2.49	.....	15	10	12	9
1906.....	71.3	-0.7	95	38	4.31	+0.02	8.98	1.41	.....	10	12	13	6
1907.....	71.5	-0.5	96	34	3.84	-0.45	9.46	1.01	.....	10	15	12	4
1908.....	73.9	+1.9	104	39	4.81	+0.52	9.57	2.15	.....	11	14	12	5
1909.....	69.7	-2.3	98	34	2.14	-2.15	4.50	0.75	.....	7	16	11	4
1910.....	72.8	+0.8	99	41	2.42	-1.87	5.15	0.45	.....	7	16	11	4
1911.....	73.7	+1.7	105	36	2.81	-1.48	7.41	0.90	.....	8	16	11	4
1912.....	71.3	-0.7	100	36	5.29	+1.00	12.65	1.04	.....	11	12	11	8
1913.....	71.8	-0.2	101	40	4.16	-0.13	8.00	0.82	.....	11	15	10	6
1914.....	71.3	-0.7	101	38	4.19	-0.10	10.29	1.10	.....	12	12	11	8
1915.....	70.7	-1.3	98	40	5.28	+0.99	12.30	1.82	.....	15	10	13	8
1916.....	74.3	+2.3	98	37	4.45	+0.16	12.41	0.39	.....	10	14	10	7
1917.....	72.1	+0.1	105	40	4.33	+0.04	9.76	1.90	.....	13	12	12	7
1918.....	70.1	-1.9	99	35	3.05	-1.24	9.96	0.77	.....	9	16	10	5
1919.....	72.6	+0.6	104	34	5.90	+1.61	14.58	1.70	.....	11	16	8	7
1920.....	69.5	-2.5	96	33	4.37	+0.08	10.70	1.27	.....	11	15	10	6
1921.....	75.9	+3.9	104	45	4.13	-0.16	9.19	1.23	.....	10	15	11	5
1922.....	71.9	-0.1	98	38	3.68	-0.61	7.58	1.45	.....	9	14	10	7
1923.....	71.0	-1.0	100	32	4.24	-0.05	9.86	0.92	.....	11	15	9	7
1924.....	69.7	-2.3	97	34	3.42	-0.87	7.12	0.71	.....	9	17	10	4
1925.....	70.5	-1.5	101	32	5.57	+1.28	14.95	1.54	.....	12	13	11	7
1926.....	71.8	-0.2	105	35	3.82	-0.47	10.63	1.14	.....	10	15	9	7
1927.....	71.7	-0.3	100	29	4.97	+0.68	11.82	1.81	.....	12	14	11	6
1928.....	72.8	+0.8	96	40	5.44	+1.15	11.81	2.37	.....	13	16	9	6
1929.....	71.8	-0.2	99	33	2.81	-1.48	6.97	0.19	.....	8	18	9	4
1930.....	73.0	+1.0	106	33	2.23	-2.06	6.46	0.17	.....	7	19	8	4
1931.....	75.2	+3.2	105	39	5.28	+0.99	13.28	1.81	.....	12	15	10	6
1932.....	72.0	0.0	100	36	3.39	-0.90	9.65	0.85	.....	10	16	10	5
1933.....	72.5	+0.5	104	35	4.26	-0.03	9.13	1.12	.....	8	17	9	5
Period.....	72.0	.....	107	29	4.29	.....	15.59	0.17	.....	11	14	11	6

Climatological Data for July, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	21	72.9	-0.8	99	31	46	4	32	5.61	+0.83	2.47	0	7	25	2	4	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	46	71.2	+0.4	95	1	45	4	36	6.75	+3.21	4.18	0	9	22	5	4	w.	F. E. Rooney.
Ardmore.....	Montgomery.....	350	1	74.0	+0.1	96	31	48	4	29	6.90	+2.61	1.90	0	7	13	12	6	.....	H. G. Balderston.
Arendtsville.....	Adams.....	700	11	73.5 ^a	-0.5	99 ^a	1†	49 ^a	4	36 ^a	4.13	+0.27	2.47	0	4	20	8	3	n.	Dr. S. W. Frost.
Bedford.....	Bedford.....	1,060	1	72.2	.....	97	1†	47	4†	41	3.39	.....	1.98	0	9	17	9	5	sw.	Charles C. Lee.
Bellefonte.....	Center.....	1,050	25	70.3	-2.9	95	31	46	4	37	2.94	-0.82	2.18	0	7	12	13	6	w.	U. S. Weather Bureau.
Bethlehem.....	Northampton.....	364	48	75.0	+0.4	101	31	43	4	33	5.26	+0.66	2.27	0	8	21	2	8	w.	Lehigh University.
Carlisle.....	Cumberland.....	467	67	75.2	+0.4	102	31	46	4	38	4.81	+0.97	3.67	0	9	24	2	5	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	37	74.2	+1.5	102	31	43	5†	46	6.25	+2.61	3.51	0	8	26	4	1	.....	W. L. Gearhart.
Center Hall.....	Center.....	1,272	37	69.5	-1.7	97	31	41	3	40	2.65	-1.28	1.95	0	5	25	2	4	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	34	74.8	+0.5	100	31	44	4	39	3.28	-0.28	2.06	0	8	12	14	5	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	26	71.6	+0.2	100	23	46	4†	41	6.91	+2.73	3.00	0	10	14	15	2	w.	E. W. Hess.
Coatesville.....	Chester.....	380	46	73.8	-0.8	97	31	49	5	37	6.23	+1.41	2.26	0	8	20	2	9	ne.	Howard L. Pyle.
Colebrook.....	Lebanon.....	560	22	70.6	-1.8	92	1	45	4	33	7.10	+2.55	2.79	0	11	19	10	2	ne.	Wm. A. Korer.
Emporium.....	Cameron.....	1,050	46	69.2	-0.4	92	23	48	4†	35	3.86	-0.47	2.01	0	9	18	9	4	e.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	41	76.0	+1.9	102	31	46	4	38	7.27	+2.94	2.24	0	9	17	8	6	s.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	40	70.2	+1.6	91	24†	47	3	26	6.31	+1.55	3.24	0	10	11	14	6	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	27	74.1	+0.4	99	31	47	4	37	4.91	+0.57	1.73	0	11	21	5	5	sw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	60	74.8	+0.6	97	23†	49	4	31	4.45	+0.67	3.20	0	8	21	6	4	sw.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	29	68.8	-1.3	93	31	40	4	37	8.71	+3.71	3.02	0	10	21	7	3	w.	Sallie M. Johnson.
Gouldsboro.....	Wayne.....	1,875	18	61.5	.....	84	1	44	18	30	5.28	+0.26	2.40	0	6	22	2	7	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	40	72.0	-1.3	98	31	45	4	35	5.37	+0.45	3.40	0	6	16	1	14	w.	State Sanatorium.
Hanover.....	York.....	600	29	75.9	+0.5	98	24†	48	4	33	4.47	+0.22	2.73	0	7	21	6	4	s.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	64	75.0	+0.2	98	31	54	4	27	4.64	+0.81	2.57	0	9	11	14	6	w.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	15	69.8	-0.6	96	23†	41	4	39	6.53	+2.47	2.34	0	9	20	10	1	w.	Mrs. Della M. Pennell.
Holtwood.....	Lancaster.....	200	18	77.1	+1.3	95	31	56	4	25	3.45	-0.68	2.40	0	7	18	8	5	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	46	72.0	-0.2	98	23†	47	5†	39	4.90	+0.93	3.87	0	8	20	6	5	w.	Prof. Paul R. Yoder.
Hyndman.....	Bedford.....	977	21	73.5	+1.0	103	23	44	4	44	2.39	-0.61	0.85	0	11	12	8	11	.....	Horace A. Sheavly.
Lancaster.....	Lancaster.....	255	46	72.1	-1.6	98	30†	43	4	37	9.13	+5.25	4.69	0	8	21	9	1	nw.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	36	70.9	+0.8	98	23†	46	18	43	4.63	+0.61	2.10	0	5	24	6	1	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	49	74.4	+0.6	98	31	46	4	36	7.98	+3.59	3.84	0	10	22	6	3	nw.	Lebanon Valley Gas Co.
Lewisburg.....	Union.....	450	57	75.2	+1.9	99	30†	49	4	35	3.04	-0.95	1.17	0	7	19	8	4	se.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	43	74.8	+1.5	102	1†	50	4	40	4.48	+0.43	1.94	0	8	15	14	2	sw.	Joseph Weaver.
Lykens.....	Dauphin.....	680	18	72.0	+0.2	101	31	39	4	46	4.39	-0.89	3.05	0	9	21	7	3	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	6	78.6	.....	101	31	54	3†	30	4.84	.....	1.95	0	6	23	4	4	ne.	Sun Oil Co.
Mauch Chunk.....	Carbon.....	600	44	71.0	-1.2	99	31	48	14	37	5.17	+0.28	1.91	0	8	18	12	1	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	29	75.2	+2.3	102	31	41	4	41	4.07	-0.40	3.39	0	5	21	5	5	w.	W. H. Manbeck.
Montrose.....	Susquehanna.....	1,658	29	68.7	+1.0	91	30	48	3	33	2.17	-1.93	1.00	0	6	19	9	3	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,720	27	63.6	-2.1	87	30†	35	4	36	4.36	-0.81	1.38	0	7	23	2	6	n.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	21	69.5 ^a	-0.1	98	31	45	18	41	4.25	-0.50	2.31	0	6	24	5	2	w.	H. O. Hacker.
Neshaminy Falls†.....	Bucks.....	60	44	73.7	+0.4	98	31	50	4	30	4.95	+0.30	1.91	0	9	13	10	8	e.	Philadelphia Sub. Water Co.
Palmerton.....	Carbon.....	398	15	72.7	.....	97	31	46	4	33	3.47	-0.84	1.59	0	7	17	7	7	ne.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	62	76.6	+0.4	99	31	54	3	24	4.70	+0.55	1.74	0	8	12	10	9	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	9	76.9	.....	101	31	54	3†	26	5.13	.....	2.10	0	7	13	12	6	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	17	76.4	+0.7	99	31	53	3	26	5.19	+0.27	1.79	0	8	3	14	14	sw.	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	23	75.9	+1.1	102	31	45	4	36	5.45	+0.55	1.92	0	6	23	6	2	s.	Philadelphia Sub. Water Co.
Quakertown.....	Bucks.....	496	48	72.4	-0.1	98	31	46	4	33	7.17	+2.21	2.67	0	8	21	4	6	nw.	John E. Benner.
Reading.....	Berks.....	514	63	74.4	-1.1	97	31	50	4	29	4.69	+0.43	1.91	0	9	9	14	8	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	39	72.8	+1.1	97	31	49	4	32	6.71	+2.68	3.43	0	8	8	19	4	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	43	73.2	0.0	97	1	48	4	34	4.42	+0.30	2.53	0	7	17	10	4	sw.	Dr. George E. Fisher.
Shawmont†.....	Philadelphia.....	51	37	76.2	+0.3	98	31	50	4	31	5.78	+1.42	1.87	0	6	15	9	7	s.	W. S. Guiles.
State College.....	Center.....	1,217	49	71.9	+1.4	97	31	48	4	35	3.09	-0.74	2.50	0	8	17	10	4	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	19	72.0	+0.8	100	23	42	4	46	3.25	-1.92	1.25	0	6	22	6	3	nw.	State Normal School.
Towanda.....	Bradford.....	754	39	71.0	+0.7	97	21†	46	18	38	5.59	+1.83	2.25	0	9	10	16	5	sw.	Mrs. M. Ordella Parks.
Wellsboro.....	Tioga.....	1,419	63	69.4	+0.7	100	23	43	18	43	4.17	+0.42	2.44	0	7	23	6	2	sw.	George W. Hill.
West Chester.....	Chester.....	455	84	72.8 ^a	-1.5	93 ^a	30	51 ^a	4	27†	7.12	+2.42	2.25	0	7	16	13	2	s.	Joseph W. Belt.
Williamsport.....	Lycoming.....	521	47	72.8	.....	100 ^k	31	49	4	36 ^k	3.68	-0.21	1.92	0	7	17	8	6	w.	Miss Veronica E. April.
York.....	York.....	400	45	74.2	0.0	99	31	45	4	35	5.08	+0.84	2.81	0	7	23	5	3	sw.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	41	74.1	+0.5	99	23	52	6†	35	2.61	-1.16	1.08	0	8	16	7	8	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,460	14	69.1	+1.4	101	24	41	6†	45	2.77	-1.53	2.17	0	6	15	11	5	.....	Supt. Timber Pres. Plant.
Brookville.....	Jefferson.....	1,173	43	69.1	+1.4	101	23	41	6†	45	2.77	-1.53	2.17	0	6	15	11	5	.....	John Fawcett.
Butler.....	Butler.....	1,077	20	71.6	.....	101	23	38	4	44	2.									

Daily Precipitation for July, 1933

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh	.48	.22	1.92	.42						T.					.80	1.67															5.61	
Altoona	Juniata		.93	.83											.19	T.							.45	.02	4.12	.06	.05	.10				6.75	
Ansonia	W. Br. Susq.	.10	.34	1.86																			.18		.15	.67	.16					3.46	
Ardmore	Lower Del.	1.00	.85	.75	T.											1.36	.67									1.90	.37					6.90	
Arendtsville	Lower Susq.		.25	2.47												.40																4.13	
Baker's Summit	Juniata		.25	1.75												1.47					.60	.70	1.14		.02	.11	.02	.48				6.64	
Bedford	Juniata		1.03	.95					.02							.18						T.		.65		.05	.10	.30	.11			.10	T.
Bellefonte	W. Br. Susq.		1.82	.36				T.								.02							.30	.14		.29	.01	T.	T.			2.94	
Bethlehem	Lehigh	.27	.23	2.04					.01							1.08	1.35											T.	.23				5.26
Blossersville	Lower Susq.		2.85	2.10												.85					.94		.15		.38		.32					7.59	
Buffalo Mills	Juniata			1.69												.47								.12		1.30	.40	.30				4.28	
Carlisle	Lower Susq.		1.72	1.95					.01							.20					.15		T.	.01	.04	.65	.08					4.81	
Catawissa	N. Br. Susq.	.60	2.65	.86					.01							.38								.27		1.30	.18					6.25	
Center Hall	Susquehanna			1.95											.08									.24	.11	.27						2.65	
Chambersburg	Potomac	T.	.76	1.30						.45						.11						.17	.03				.04	.42				3.28	
Clearfield	W. Br. Susq.		.11	1.50	1.00											.02						.10	.17	.82	2.90	.10				.19		6.91	
Coatesville	Lower Del.	1.21	1.60	.66					.53							.69	.30										.98	.26				6.23	
Colebrook	Lower Susq.		.67	1.88	.91							.04				1.70	.12					.22		.46			.22	.77	.11			7.10	
Conshohocken	Schuylkill																																
Cresson	Juniata		1.43													.63							.96		.34	.15	.09					3.60	
Doylstown	Lower Del.	.77	.17	1.86					.33							1.30	.61										.01	.21	.10				5.36
Emporium	W. Br. Susq.	T.	.81	1.20					.02							.51	.18					.21			T.	.68	.04				.21	T.	3.86
Ephrata	Lower Susq.	1.62	1.10	1.14					.65							.98	.55							.39		.39		.65	.19				7.27
Forest City	N. Br. Susq.			1.65							.20					T.	.07						.17	.23		.35	.21			.04		2.92	
Freeland	Lehigh	.70	.06	3.22	.02					.05						.51	.19								.11		1.37	.08					6.31
Galeton	W. Br. Susq.	.56	.66	1.43																				.10	.44	.42		.46	.18			3.61	
George School	Lower Del.	.62	.17	1.58	.02	.03			.31							1.26	.26									.02	.46					4.91	
Gettysburg	Potomac		1.65	1.55												.02	.06								.03		.55	.56			.03		4.45
Girardville	Lower Susq.		.24	2.43						.02						.26		.60							.16		1.70					5.41	
Gordon	Lower Susq.	.99	1.58	1.40					.06							1.05	.02				.02			.57		1.51	1.51					8.71	
Gouldsboro	Lehigh	.36		2.40												.52	.03							.02			1.95					5.28	
Graterford	Schuylkill	.58	.06	1.84					.04							.51	1.12										.02	.16	.07			4.40	
Hamburg	Schuylkill	.30	2.00	1.40					.73							.92											.02	T.				5.37	
Hanover	Lower Susq.		1.69	1.04					.37							.32	.09											.50	.46			4.47	
Harrisburg	Lower Susq.		1.73	.84					.02	.02						.59					.32		.13		.36	T.	.63					4.64	
Hawley	Upper Del.	.05	1.69	1.42				.15								.25	.08							.06		2.34	.49					6.53	
Hollisterville	Upper Del.	.36	.84	1.06												.33	.12				.05	.08	.02			2.43	.20					6.39	
Holtwood	Lower Susq.		1.50	.90					T.							.18	.03									.04	.37	.43				3.45	
Huntingdon	Juniata		2.69	1.18					T.							.02	.80						.03	T.	.13	.02	.03	T.				4.90	
Hyndman	Potomac		.20	.65					.31							.07	.15						.03		.09	.02	.07	.54	.26			2.39	
Kylertown	W. B. Susq.		.93	1.18												.15								.07		2.64	1.15				.05	6.17	
Lakeville	Upper Del.		2.01	1.07				.16								.28	.13							.12		3.50	.40					7.67	
Lancaster	Lower Susq.	.10		2.56												.70	.27					.12		.31			4.69	.38				9.13	
Lansford	Lehigh	.62		2.18	.01												1.26										1.06	1.05				6.18	
Lawrenceville	N. Br. Susq.		.40	1.63												.30								T.		2.10	.20					4.63	
Lebanon	Lower Susq.	.06	3.84	T.				.01	.03							1.70		.94				T.		1.14		.06	.18	.02				7.98	
Lewisburg	W. Br. Susq.	.03	.08	1.06					T.							1.17									.48		.10	.12				3.04	
Lock Haven	W. Br. Susq.	.02	.94	1.00				.01								.78			.16						.68		.89					4.48	
Lykens	Susquehanna	.10	.90	2.15					T.	.07						.46	.05								.25			.38	.03			4.39	
Marcus Hook	Lower Del.			1.60												1.08	.01										*	1.95	.20			4.84	
Matamoras	Upper Del.		.70	.81	.11						.14					*	.34											.27				2.37	
Mauch Chunk	Lehigh	.28	1.07	.84													1.05						.17		*	1.76						5.17	
Midlinton	Juniata	.35	2.31	1.08												.19											.14	T.	T.			4.07	
Montrose	N. Br. Susq.	.50	.20																	.02	.05						1.00			.40		2.17	
Morris Run	N. Br. Susq.	.56	.25	2.14												.80										.02	1.56					5.43	
Mount Pocono	Upper Del.		.40	1.38												.50	.14					1.20	.04				.02	1.70				4.36	
Muncy Valley</																																	

Daily Precipitation for July, 1933—Continued from page 33

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage																																		
Beaver Dam|||	Ohio.....		.64	1.08						.03							.03	.18		.08				.45		.12							2.61	
Beaver Falls|||	Beaver.....		.16	.79						.12							.05	.78		.05				.11		.10					T.		2.06	
Bradford.....	Allegheny.....																																	
Brookville.....	do.....			2.17													.06	.03		.11			T.				.35	.05					2.77	
Butler.....	Ohio.....		1.38							T.							.21						.40		.18						.37		2.54	
Chambersville.....	Allegheny.....		.70	.45													.19						T.		2.81		T.				.06		4.21	
Clairton||	Monongahela.....		.02	.62	.02					T.							.34	.09					.20		.67		.22				.14		.02	2.34
Claysville.....	Ohio.....		.80	.65	.75						.23						.06	.18					T.		.74		.21				.01			3.63
Clymer||	Conemaugh.....			1.20													.64									.60					.10		2.54	
Confluence|||	Youghiogheny.....		.07	.08	2.43						.58						.15	.12	.17					.05	.52	T.	.30						4.47	
Corry.....	Allegheny.....		T.	.92						.07							.02		.18				T.		.19	.04		T.			.06		1.48	
Coudersport.....	Allegheny.....		.42	1.77											.93						.22	.15				.35							3.84	
Derry.....	Conemaugh.....			.86	.58					.20							.15									.35							2.65	
Donora|||	Monongahela.....		.08	.32	1.08					.01							.03	.34						.39		2.54	T.	.15					4.94	
Ebensburg.....	Conemaugh.....			.68	.78											.80		.04					.51	.70	T.	1.02	.20						4.63	
Elk Lick.....	Youghiogheny.....																																	
Franklin|||	Allegheny.....		.09		1.09													.23		.06					.05		.07						1.59	
Greensboro.....	Monongahela.....			.69	1.99					.06	.49					.28	.55	.50								.22	.06	.27			T.	T.		5.11
Greensburg.....	Youghiogheny.....		.04	.50	.52					.01	T.					.15	.20								.71	.08	.09				T.		2.30	
Greenville.....	Beaver.....			.90	T.					T.							.11						.30		.29	.36							1.96	
Grove City.....	do.....		.08	.02	.91			T.		T.	.15					T.	.41								T.								1.51	
Herrs Isl. Dam|||	Ohio.....		.08	.09	1.10					.03							.28	.34						.34		.26			.02		.35		2.89	
Irwin.....	Monongahela.....		.48	.18	.31					T.						.08	.10						.36		.91	.04	.45	.04					2.95	
Johnstown.....	Conemaugh.....		T.	1.00	.31					T.	T.					.04	.18						T.	.06		.38	.04	.02					2.03	
Kane (near) ||	Allegheny.....		.02	.76	.77					.03	.04					.18	.01		.09				T.	T.		.07	.22					T.	2.19	
Kregar||	Youghiogheny.....			1.55						.02	.25						.02	.14						.05		2.80	.19	.10			.18		5.25	
Lake Lynn|||	Monongahela.....		.23	2.54						.05	.43					.24	.66	.32								2.54	.07	.10	.23				7.41	
Linesville|||	Beaver.....			.68													T.								.52							1.20		
Lock No. 2|||	Ohio.....			.28	1.84						.06						.39	.23						1.60		.19						4.61		
Lock No. 4|||	Monongahela.....			.52	1.52					T.							.05	.25						.20		.50	T.	.09					3.13	
Lock No. 5|||	Allegheny.....		.12	.01	.75					T.							.01	.21						T.		.73	.05					.08	.02	1.98
Lycippus.....	Conemaugh.....			.95						T.							.18							.50		.56	T.	.19			T.		2.38	
McKeesport|||	Monongahela.....		.14	.15	.88											.34	.12	.12						.27		.39		1.46					3.87	
Meadville.....	Allegheny.....			.52	.23												.19						.07		.53							1.54		
Mosgrove.....	do.....		.12	.20	1.46					T.						.01	.08							.24		.40						.06	2.57	
Mount Lebanon.....	Ohio.....		.29	.75	.02					.04	T.					1.19	.33		T.				.01		.78		.02			.24	T.		3.67	
Natrona|||	Allegheny.....		T.	.03	.98					T.							.07	.30							.53		.93	.07				.18	8.09	
New Castle|||	Beaver.....				.61			T.		T.							.11	.01		.04				.09		.01	T.				.32		1.19	
Newell.....	Monongahela.....			.80	1.50	T.				T.							.11	.11							T.	.15			.05				2.61	
Parkers Landing|||	Allegheny.....		T.		.87												T.	.16						T.	.12	.07	T.						1.22	
Pennline|||	Beaver.....				.59					.04							.02							.14		.76	.03				T.		1.58	
Pittsburgh***	Ohio.....		.06	1.23	.01					.03						.34	.41	T.	.02					.42		.30		.04			.35		3.21	
Punxsutawney|||	Allegheny.....		.24		1.87												T.	.31							.07		1.31			.07		.52	4.39	
Ridgway.....	do.....		.15		1.23												T.	.03		.12					.03	.06		T.					1.62	
Saltsburg|||	Conemaugh.....		.08		1.53						.15						.82	.62						.26		1.80	.63	.03				.18	6.10	
Sharon|||	Beaver.....				1.03					T.							.65								T.								1.68	
Smethport.....	Allegheny.....			.10	1.90												.71									2.05	.21	.59					5.56	
Somerset.....	Youghiogheny.....			.38	.85					T.	.29					.09	.09						.16	T.	.75	.12	.32	.04				.15	3.24	
Springdale|||	Allegheny.....		.08	.13	1.33						.01						.03	.53								1.04	.21	.02			T.		3.38	
Uniontown.....	Monongahela.....		.21	1.05	1.36					T.	.69					.87	.49							T.		1.12	.26	.18	.02		.16		6.41	
Unity Reservoir||	Youghiogheny.....		.03	.55	.75											T.	.22								.43	.06	.12				.16		2.32	
Vandergrift||	Conemaugh.....		.08	1.18													.45								.92	.23	.93				.09		2.98	
Warren.....	Allegheny.....			1.49													1.18							.11	.18		.11	.04				.01	3.12	
Waynesburg.....	Monongahela.....		1.00	.50	1.01					.24						1.05	.41										.18	.06		.10			4.55	
Westford|||	Beaver.....				1.06																			.41		.60		.18	.06			.02	2.09	
West Newton|||	Youghiogheny.....				1.12						.02							.17							.15		.85	T.	.09			.02	2.42	
Lake Drainage.																																		
Erie***	Lake Erie.....		T.	.76						.01	T.						T.								.11	.01	.23						1.12	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * Included in next measurement.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloesville, Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox; of Lock No. 5, Schenley. † Mdt. to mdt.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations	Atmospheric pressure (reduced to sea level)					† Wind				Relative humidity			Percentage of sunshine
	Mean	Highest.	Date	Lowest	Date	Average hourly velocity	Maximum * velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	
Erie.....	30.01	30.47	4	29.76	1	11.1	39	e.	3	68	66	66	83
Harrisburg.....	30.00	30.38	4	29.70	1	6.4	34	nw.	2	73	52	59	72
Philadelphia.....	30.02	30.35	4	29.71	1	11.1	36	ne.	3	74	54	62	65
Pittsburgh.....	30.04	30.44	4	29.79	15	8.0	41	nw.	22	71	46	52	70
Reading.....	30.01	30.35	4	29.67	1	8.9	41	e.	2	73	54	66	73
Scranton.....	30.01	30.38	4	29.65	1	5.8	26	nw.	1	76	48	58	76

Daily Temperatures for July, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	94	81	69	78	84	86	89	88	82	81	79	79	80	79	75	78	80	84	87	90	89	88	92	93	79	72	79	84	93	94	99	84.0	
	Minimum	70	69	53	46	55	59	59	63	68	57	61	51	51	54	60	62	62	57	61	65	70	69	64	69	69	63	62	60	66	69	72	61.8	
Altoona.....	Maximum	95	84	69	78	81	83	89	89	86	85	81	79	76	79	78	85	81	83	90	92	93	92	93	89	79	78	80	84	90	92	94	84.6	
	Minimum	66	65	53	45	51	50	57	59	63	53	55	50	52	46	51	61	55	50	59	56	61	66	61	64	64	61	60	54	63	71	72	57.9	
Bedford.....	Maximum	97	86	71	81	83	86	93	93	87	85	84	84	82	81	87	82	83	84	91	93	96	96	97	93	78	77	79	87	90	93	98	86.8	
	Minimum	68	67	55	47	49	47	52	55	67	56	53	55	52	47	54	53	54	48	53	56	60	65	61	65	62	62	58	60	69	74	57.6		
Bellefonte.....	Maximum	93	79	71	78	81	83	87	85	82	83	78	80	78	78	72	82	80	83	86	91	93	91	94	90	74	73	80	87	90	92	95	83.5	
	Minimum	66	57	53	46	52	52	53	58	57	50	53	51	54	52	53	61	54	46	51	56	58	64	58	65	64	60	62	65	61	68	71	57.1	
Brookville.....	Maximum	96	95	80	76	81	81	85	90	89	88	85	83	84	84	87	88	84	89	81	89	92	97	97	101	95	75	76	86	91	93	97	86.9	
	Minimum	58	61	55	42	42	41	45	54	50	44	44	43	46	44	49	61	51	41	47	51	51	59	52	64	64	55	51	49	53	63	60	51.3	
Butler.....	Maximum	92	90	79	82	83	84	90	89	88	85	83	84	84	84	88	84	89	81	89	92	97	97	101	97	90	80	84	91	93	97	96	88.6	
	Minimum	65	50	58	38	50	45	51	53	50	47	50	49	50	48	53	55	53	46	51	54	57	63	64	61	60	60	59	55	60	69	69	54.6	
Carlisle.....	Maximum	100	95	66	84	87	88	93	94	90	86	88	87	87	84	78	87	87	87	90	94	95	95	97	100	100	86	77	81	87	96	98	102	89.6
	Minimum	71	66	56	46	56	56	61	60	65	54	63	57	61	55	51	65	61	53	58	61	63	69	63	66	68	62	61	55	62	68	72	60.8	
Catawissa.....	Maximum	99	88	78	84	87	89	92	92	87	88	89	87	86	85	77	86	85	86	93	97	95	96	100	98	78	81	84	88	96	96	102	89.3	
	Minimum	67	66	54	46	43	43	61	67	64	52	55	55	62	53	56	64	60	61	54	55	64	64	62	70	66	64	58	60	64	70	69	59.0	
Chambersburg.....	Maximum	98	88	73	83	87	89	91	94	90	86	85	84	83	82	78	89	86	90	94	94	95	95	98	99	85	77	80	86	96	98	100	88.8	
	Minimum	71	56	55	44	53	53	58	61	68	57	63	59	61	54	53	65	61	54	57	64	68	65	67	67	67	67	67	58	57	70	73	60.9	
Chambersville.....	Maximum	91	81	82	80	83	85	88	90	86	86	87	84	84	85	86	86	83	85	91	94	96	99	101	99	77	75	83	88	90	91	94	87.4	
	Minimum	63	63	54	45	47	44	51	54	61	50	54	51	53	48	54	61	53	47	52	54	59	66	60	66	66	62	60	55	62	70	69	66.6	
Claysville.....	Maximum	95	80	78	81	85	87	91	89	83	88	85	85	86	89	89	82	83	84	92	93	98	98	101	99	79	77	83	91	92	94	97	88.2	
	Minimum	69	62	56	48	47	52	60	65	60	51	54	60	56	60	61	54	50	55	56	68	65	66	67	66	63	61	58	66	71	71	59.9		
Clearfield.....	Maximum	91	80	71	79	84	83	88	85	86	84	81	84	80	83	83	85	81	83	86	90	98	96	100	92	89	87	84	86	90	94	94	86.4	
	Minimum	63	61	53	46	48	46	50	55	61	50	49	49	52	50	52	64	55	53	59	58	57	60	60	65	60	65	68	54	70	66	63	56.8	
Coatesville.....	Maximum	94	85	65	80	86	86	90	93	90	85	80	79	81	78	77	84	81	85	88	90	90	90	95	93	85	78	80	81	90	94	97	85.5	
	Minimum	67	59	51	50	49	60	63	66	65	60	63	59	55	57	59	65	65	69	67	64	67	68	64	61	57	65	72	74	62	74	62.1		
Corry.....	Maximum	94	84	77	81	78	84	91	87	80	80	83	87	85	85	82	78	73	84	87	95	93	91	100	89	78	78	88	91	88	92	98	85.8	
	Minimum	69	58	56	46	54	49	52	48	60	50	51	48	53	56	55	55	49	56	52	58	57	62	61	65	59	51	47	57	58	64	55.6		
Coudersport.....	Maximum	92	75	70	76	78	82	87	87	80	80	81	81	79	79	79	81	86	84	87	87	87	87	87	90	76	70	81	86	88	91	94	82.4	
	Minimum	60	58	53	44	43	46	55	55	45	44	44	46	47	47	47	47	47	47	47	47	47	47	47	58	60	50	49	54	61	57	50.2		
Emporium.....	Maximum	90	75	72	76	78	82	86	80	78	79	77	78	78	78	78	78	77	81	84	87	89	88	92	88	74	78	84	88	91	91	81.5		
	Minimum	64	62	55	48	48	49	51	59	65	51	50	48	53	52	51	63	66	69	69	67	61	63	63	65	65	55	54	60	68	64	66.9		
Erie.....	Maximum	85	70	70	76	77	81	86	78	78	78	75	78	86	84	79	79	75	81	86	88	92	91	97	78	74	76	81	85	86	89	92	81.6	
	Minimum	70	60	59	58	60	64	68	70	64	61	61	62	65	63	63	59	64	63	72	71	72	73	67	65	63	60	68	72	76	77	65.6		
Franklin.....	Maximum	98	92	80	83	82	89	94	94	85	91	89	90	86	88	90	85	85	90	92	99	99	100	100	91	74	80	94	94	99	101	90.8		
	Minimum	63	64	55	54	49	49	50	60	53	52	51	50	52	51	53	51	55	45	43	65	64	62	60	58	55	45	44	48	50	58	65	54.0	
Freeland.....	Maximum	90	83	65	74	76	80	83	81	76	79	76	77	75	76	71	76	74	79	83	85	86	83	90	91	72	74	75	80	85	88	91	79.8	
	Minimum	66	57	47	51	57	56	62	67	64	57	55	55	57	53	54	61	59	58	65	69	67	64	71	62	59	59	61	65	70	69	60.5		
Gettysburg.....	Maximum	96	90	67	80	85	86	88	90	87	83	84	81	80	77	73	86	85	86	90	91	92	97	97	97	89	82	79	82	91	94	97	86.3	
	Minimum	72	66	54	49	61	57	60	64	72	59	64	60	59	57	54	66	65	68	60	64	67	63	66	68	71	64	61	62	71	72	72	63.2	
Greensburg.....	Maximum	95	88	78	82	83	83	90	88	85	85	83	84	84	84	82	81	81	91	92	96	97	98	94	78	73	82	90	88	93	95	87.0		
	Minimum	69	66	56	48	51	50	56	61	68	58	56	55	59	55	58	61	56	52	57	57	65	65	64	67	68	62	60	59	65	70	72	60.2	
Grove City.....	Maximum	91	88	85	81	82	85	89	86	83	80	85	83	81	83	86	88	81	85	90	89	90	95	97	94	92	91	93	85	87	94	93	87.5	
	Minimum	68	61	60	54	55	52	61	66	60	58	55	57	65	68	53	52	60	55	57	62	68	64	61	60	68	61	60	57	62	57	60	59.9	
Hamburg.....	Maximum	85	84	70	80	85	84	85	85	85	84	84	78	79	79	80	84	83	83	85	85	89	88	90	92	83	77	78	80	88	94	98	84.0	
	Minimum	66	61	52	45	40	57	60	63	55	56	58	56	58	57	57	60	52	60	65	68	65	64	61	66	68	60	60	56	60	66	70	59.9	
Harrisburg.....	Maximum	96	85	69	80	84	86	90	91	86	84	82	78	79	77	72	84	82	86	90	88	90	90	95	95	79	69	79	82	90	95	98	84.9	
	Minimum	76	60	54	54	66	63	65	66	66	61	66	63	63	61	60	64	67	60	65	69	71	71	68	70	69	63	62	63	66	74	76	65.2	
Hawley.....	Maximum	95	85	67	80	84	85	90	87	84	82	79	77	83	80	78	76	82	85	88	91	91	87	96	95	68	75	81	85	92	96	94	84.4	
	Minimum	63	58	50	41	53	48																											



CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

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No. 8.

GENERAL SUMMARY.

An intensely hot period that closed July continued on August 1st and 2d, after which the temperatures were mostly seasonable. The high temperature of 104° has been exceeded in August, during the last 45 years, only in 1918 and 1930. The chief feature of the month was the excessive rains in the eastern half of the State, occasioned by the passage of a tropical storm. The rains of this storm began on the 22d, a full day before the storm winds reached this region, and continued over a three days period. They constituted about three-fourths of the monthly rainfall for the eastern half of the State, which exceeded ten inches at 46 stations. The region of heaviest rains was mostly southeast of the Blue Ridge, and included the finest agricultural regions of the State. The rains of the 22d soaked and softened the top soil, and when the torrential rains and gales passed over the region on the 23d and 24th the greater portion of the corn was beaten to the ground. About two-thirds of the crop was fully and heavily eared, and was down to stay down. The leaves and stalks dried and shriveled after the storm in the same manner as if they had been frozen. Late fields that were in the earing process straightened up to a considerable extent, and made a fair recovery. The damage was estimated as high as fifty percent in some sections, and seems to have averaged nearly thirty percent for the eastern half of the State. This loss was partly balanced by the improvement that moderate rains caused at most places in the western half of the State. The storm covered practically all of the tobacco growing regions, and nearly ruined the crop. One of the most promising crops in recent years, it was apparently reduced one half in yield, while quality suffered even more. A poor crop of orchard fruits was apparently reduced about one-half in the storm region. Analysis of the three-days rainfall during the storm shows amounts in excess of six inches at 43 stations. York had a three-days rainfall of 13.82 inches, and a monthly total of 17.70 inches, breaking all existing records for the State. It previously held a record of 11.00 inches in less than 48 hours on June 25-26, 1884. Flooding of the streams caused heavy damage in the Delaware drainage area. The Schuylkill reached a stage of 19.7 feet at Reading on the 24th, nearing the all time record of 23.2 feet on September 2, 1850. A large area was flooded in the southern portion of the city. Basements were filled and the first floors of hundreds of homes and business places invaded by the flood waters. All of the towns along the river from Reading to Philadelphia suffered more or less damage. No complete survey was made of the losses, but numerous reports make it seem that a million of dollars would be a conservative estimate. The State Highway Department estimated the damage to roads and bridges at upwards of \$800,000. The crop damage undoubtedly exceed-

ed the total flood damage by a wide margin. The storm was the most destructive that Pennsylvania has experienced during the 45 years of the State Weather Service.

TEMPERATURE.

The mean temperature for the State, as deduced from the reports of 86 stations, was 70.8°, which is 0.8° above the normal for August. The highest monthly mean was 77.7° at Marcus Hook, and the lowest was 60.6° at Gouldsboro. Extremes of temperature ranged from a maximum of 104° at Phoenixville on the 1st to a minimum of 38° at Coudersport on the 30th. The greatest daily range in temperature was 48° at Ridgway on the 2d.

PRECIPITATION.

The average precipitation for the State, as shown by the reports from 146 stations, was 7.61 inches which is 3.44 inches above the August normal. The greatest amount for the month was 17.70 inches at York, while the least, 1.22 inches, occurred at Grove City. The greatest amount recorded in an 24 consecutive hours was 8.48 inches at York on the 22-23d.

COMPARATIVE DATA FOR AUGUST

Year	Temperature				Precipitation				No. of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	of inch or more prec.	Clear	Partly cloudy	Cloudy
1888.....	69.8	-0.2	100	33	7.05	+2.88	11.27	3.18	.....	10	13	10	8
1889.....	67.4	-2.6	100	37	3.24	-0.93	7.07	0.83	.....	8	15	10	6
1890.....	68.8	-1.2	98	34	5.76	+1.59	9.65	2.58	.....	12	9	14	8
1891.....	69.6	-0.4	99	35	5.09	+0.92	11.77	1.43	.....	12	8	12	11
1892.....	71.4	+1.4	99	42	3.77	-0.40	7.64	1.07	.....	9	14	7	10
1893.....	70.4	+0.4	99	30	4.50	+0.33	9.99	1.68	.....	8	14	10	7
1894.....	69.4	-0.6	98	32	1.84	-2.33	5.51	0.17	.....	6	13	12	6
1895.....	72.3	+2.3	101	32	3.23	-0.94	6.03	0.59	.....	9	15	11	5
1896.....	71.2	+1.2	101	35	2.22	-1.95	6.53	0.45	.....	8	14	11	6
1897.....	67.9	-2.1	97	34	3.17	-1.00	8.60	0.34	.....	9	14	11	6
1898.....	72.3	+2.3	99	37	6.60	+2.43	11.32	3.72	.....	12	11	11	9
1899.....	71.2	+1.2	101	38	4.01	-0.16	10.09	0.07	.....	7	14	10	7
1900.....	75.0	+5.0	103	38	3.33	-0.84	5.78	0.84	.....	9	14	12	5
1901.....	72.0	+2.0	99	42	6.81	+2.64	13.65	2.48	.....	11	10	12	9
1902.....	67.8	-2.2	100	34	2.62	-1.55	6.44	0.51	.....	8	13	13	5
1903.....	67.2	-2.8	99	36	5.29	+1.12	8.05	2.00	.....	14	9	12	10
1904.....	68.0	-2.0	96	34	4.36	+0.19	9.64	1.66	.....	9	15	10	6
1905.....	69.6	-0.4	95	36	5.71	+1.54	10.83	1.92	.....	12	12	12	7
1906.....	73.2	+3.2	96	39	5.62	+1.45	11.65	1.62	.....	12	10	12	9
1907.....	68.0	-2.0	97	32	2.94	-1.23	6.19	0.77	.....	10	16	9	6
1908.....	69.4	-0.6	102	30	3.22	-0.95	8.06	1.22	.....	7	15	10	6
1909.....	69.4	-0.6	100	34	2.31	-1.86	7.76	0.12	.....	7	16	9	6
1910.....	69.8	-0.2	98	35	2.61	-1.56	6.46	0.55	.....	6	14	10	7
1911.....	71.4	+1.4	102	36	7.63	+3.46	15.14	2.60	.....	13	11	8	12
1912.....	67.1	-2.9	93	36	5.02	+0.85	9.65	1.68	.....	14	9	12	10
1913.....	70.4	+0.4	102	38	2.69	-1.48	10.93	0.70	.....	8	17	9	5
1914.....	71.3	+1.3	100	34	3.85	-0.32	7.20	0.64	.....	11	13	11	7
1915.....	68.0	-2.0	99	34	6.71	+2.54	14.44	1.92	.....	15	10	11	10
1916.....	71.9	+1.9	103	32	2.57	-1.60	7.08	0.21	.....	8	17	10	4
1917.....	71.2	+1.2	101	38	6.69	+2.52	17.50	1.06	.....	10	15	10	6
1918.....	73.6	+3.6	108	32	4.12	-0.05	8.08	1.05	.....	11	16	10	5
1919.....	68.2	-1.8	94	35	5.43	+1.26	12.03	2.35	.....	12	13	10	8
1920.....	70.2	+0.2	95	37	4.66	+0.49	9.29	1.93	.....	15	9	12	10
1921.....	68.4	-1.6	97	35	3.83	-0.34	6.68	1.81	.....	9	17	8	6
1922.....	69.1	-0.9	100	31	3.14	-1.03	8.16	1.15	.....	10	15	9	7
1923.....	69.2	-0.8	96	30	3.10	-1.07	7.30	0.59	.....	9	15	11	5
1924.....	70.1	+0.1	102	31	3.78	-0.39	7.54	1.48	.....	9	16	10	5
1925.....	69.7	-0.3	97	26	2.28	-1.89	5.14	0.65	.....	7	18	9	4
1926.....	71.9	+1.9	103	32	5.69	+1.52	10.04	2.95	.....	15	11	8	12
1927.....	65.5	-4.5	92	34	4.12	-0.05	11.49	1.13	.....	12	12	10	9
1928.....	73.4	+3.4	99	35	4.60	+0.43	10.87	1.82	.....	12	13	11	7
1929.....	67.7	-2.3	98	31	2.52	-1.65	7.20	0.20	.....	7	17	8	6
1930.....	70.3	+0.3	108	29	1.47	-2.70	4.12	0.29	.....	7	15	10	6
1931.....	71.1	+1.1	104	40	4.01	-0.16	8.78	1.30	.....	12	11	10	10
1932.....	71.6	+1.6	103	34	2.82	-1.35	6.81	1.09	.....	8	19	8	4
1933.....	70.8	+0.8	104	38	7.61	+3.44	17.70	1.22	.....	12	13	9	9
Period.....	70.0	.....	108	26	4.17	.....	17.70	0.07	.....	10	13	11	7

Climatological Data for August, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	21	71.4	0.0	97	1	51	30	29	11.00	+6.39	4.77	0	14	19	5	7	ne.	John A. Frick.
Altoona	Blair	1,615	46	68.6	-0.4	91	1	46	30	31	6.95	+3.62	2.56	0	15	19	7	5	w.	F. E. Rooney.
Ardmore	Montgomery	350	1	73.2	+1.9	97	1	56	30	25	12.67	+7.21	4.37	0	13	12	10	9	.....	H. G. Balderston.
Arendtsville	Adams	700	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. S. W. Frost.
Bedford	Bedford	1,060	1	71.8	.....	94	1	47	30	42	4.81	.....	1.90	0	11	15	5	11	nw.	Charles C. Lee.
Bellefonte	Center	1,050	25	68.4	-2.4	91	1	44	30	33	7.14	+3.30	3.92	0	13	6	13	12	sw.	U. S. Weather Bureau.
Bethlehem	Northampton	364	48	73.9	+1.1	98	1	55	11	28	10.27	+5.97	2.20	0	13	15	4	12	e.	Lehigh University.
Carlisle	Cumberland	467	67	73.2	+0.6	101	1	49	30	37	11.14	+6.70	4.74	0	15	17	5	9	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	37	72.6	+2.3	96	1	48	30	41	8.55	+4.79	4.09	0	9	17	6	8	.....	W. L. Gearhart.
Center Hall	Center	1,272	37	66.8	-1.9	95	1	48	4	30	7.77	+4.09	3.00	0	15	17	9	5	.....	S. W. Smith.
Chambersburg	Franklin	580	34	72.8	+1.0	101	1	50	5	36	8.63	+4.67	2.86	0	16	9	12	10	sw.	William B. Spear.
Clearfield	Clearfield	1,120	26	68.9	-1.0	95	1	44	30	37	3.95	-0.16	1.21	0	10	14	9	8	w.	E. W. Hess.
Coatesville	Chester	380	46	73.0	+0.5	97	1	56	30	30	13.29	+8.92	3.38	0	14	16	3	12	n.	Howard L. Pyle.
Colebrook	Lebanon	560	22	69.8	-0.5	93	1	52	5	26	13.74	+9.09	5.66	0	18	15	9	7	ne.	Win. A. Korer.
Emporium	Cameron	1,050	46	67.2	-0.2	90	1	45	30	30	4.37	+0.48	1.31	0	11	14	9	8	e.	T. B. Lloyd.
Ephrata	Lancaster	380	41	74.6	+3.0	100	1	53	30	35	12.70	+8.17	3.26	0	13	15	7	9	n.	Ira J. Keath.
Freeland	Luzerne	1,970	40	67.8	+1.6	92	1	52	11	23	11.30	+6.65	5.62	0	15	9	13	9	nw.	Theo. Reichmann.
George School	Bucks	190	27	73.9	+2.5	98	1	55	30	28	9.51	+4.91	2.28	0	13	13	7	11	w.	Prof. N. W. Swayne.
Gettysburg	Adams	553	60	73.9	+2.0	98	1	55	30	27	11.51	+7.59	3.87	0	15	13	10	8	n.	Dr. Henry Stewart.
Gordon	Schuylkill	840	29	67.5	-0.3	91	1	43	30	36	10.27	+6.03	3.70	0	14	13	10	8	w.	Sallie M. Johnson.
Gouldsboro	Wayne	1,875	18	60.6	.....	85	1	42	6	32	11.71	+7.37	2.85	0	11	16	7	8	sw.	Gustav Holtz.
Hamburg	Berks	535	40	70.8	-0.4	97	1	49	31	31	13.20	+8.20	2.66	0	10	16	8	7	w.	State Sanatorium.
Hanover	York	600	29	74.8	+1.7	98	1	55	30	28	10.53	+6.27	3.02	0	15	13	9	9	s.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	64	73.2	+0.6	97	1	56	30	24	10.67	+6.63	5.28	0	14	10	11	10	ne.	U. S. Weather Bureau.
Hawley	Wayne	900	15	67.4	-0.4	95	1	42	30	39	11.45	+7.40	4.06	0	14	13	12	6	w.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	18	76.0	+2.5	97	1	61	30	20	12.52	+8.77	5.50	0	14	10	11	10	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	46	71.4	+1.0	96	1	48	5	37	8.66	+4.88	3.86	0	12	17	7	7	ne.	Prof. Paul R. Yoder.
Hyndman	Bedford	977	21	73.0	+2.1	97	1	48	15	40	5.45	+1.67	4.07	0	10	15	5	11	.....	Horace A. Sheavly.
Lancaster	Lancaster	255	46	71.2	-0.8	100	1	48	30	36	13.94	+10.14	3.35	0	12	18	6	7	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	36	68.7	+0.8	95	1	46	30	38	7.17	+3.62	2.30	0	12	13	10	8	.....	C. P. Darling.
Lebanon	Lebanon	469	49	73.0	+1.2	99	1	52	30	30	12.44	+8.14	5.72	0	11	18	7	6	sw.	Lebanon Valley Gas Co.
Lewisburg	Union	450	57	72.6	+1.8	95	1	50	30	36	8.71	+4.33	3.33	0	15	13	9	9	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	43	72.2	+1.1	101	1	49	30	36	9.81	+5.74	4.37	0	16	7	18	6	ne.	Joseph Beaver.
Lykens	Dauphin	680	18	71.2	+1.2	101	1	44	30	42	11.55	+7.84	4.70	0	15	13	12	c.	sw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	6	77.7	.....	101	1	57	11	28	10.99	.....	.....	0	15	14	3	14	ne.	Sun Oil Co.
Mauch Chunk	Carbon	600	44	66.8	-3.2	92	1	46	30	35	11.97	+7.21	4.31	0	15	15	5	11	w.	R. K. Wintermute.
Millintown	Juniata	445	29	73.6	+3.1	102	1	48	30	35	7.22	+3.29	3.57	0	7	18	5	8	w.	W. H. Manbeck.
Monroeville	Susquehanna	1,658	29	65.0	-1.3	90	1	50	5	30	8.97	+4.75	1.50	0	14	13	9	9	s.	Silas Jagger.
Mt. Pocono	Monroe	1,720	27	64.4	+0.6	88	1	44	6	30	10.62	+6.38	2.80	0	14	20	.....	11	n.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	21	67.7	+0.1	95	1	45	6	37	10.35	+5.75	3.63	0	14	19	4	8	sw.	H. O. Hacker.
Neshaminy Falls II	Bucks	60	44	73.1	+2.1	97	1	54	30	28	9.29	+4.47	2.53	0	15	11	9	11	ne.	Philadelphia Sub. Water Co.
Palmerston	Carbon	398	15	70.6	.....	97	1	49	30	30	9.99	+6.28	3.76	0	16	17	8	6	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	62	76.0	+1.2	97	1	60	11	21	9.84	+5.22	3.76	0	14	10	5	16	ne.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	9	75.8	.....	99	1	54	11	26	9.55	.....	3.43	0	13	6	13	12	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	17	75.0	+0.8	100	1	50	10	24	10.20	+5.66	2.20	0	13	3	13	15	ne.	Commandant, Navy Yard.
Phoenixville	Chester	100	23	75.6	+2.7	104	1	48	8	44	11.44	+6.48	4.74	0	9	11	15	5	s.	Philadelphia Sub. Water Co.
Quakertown	Bucks	496	48	70.6	+0.4	97	1	48	30	32	10.15	+5.78	2.72	0	15	12	11	8	nw.	John E. Beumer.
Reading	Berks	514	63	72.8	+0.4	97	1	56	30	25	7.53	+3.32	2.35	0	13	10	10	11	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	39	70.0	+0.2	95	1	49	29	31	8.06	+4.37	3.00	0	15	8	15	8	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	43	71.4	+0.2	95	1	52	5	31	9.66	+5.60	2.78	0	15	15	8	8	sw.	Dr. George E. Fisher.
Shawmont II	Philadelphia	51	37	75.3	+2.1	99	1	56	30	28	10.32	+5.29	3.27	0	10	8	11	12	s.	W. S. Gutles.
State College	Center	1,217	49	69.4	+0.9	94	1	47	30	35	6.52	+3.01	2.14	0	16	12	10	9	w.	C. A. Kern.
Stroudsburg	Monroe	500	19	68.8	-0.2	99	1	46	8	38	9.90	+4.93	.....	0	7	12	4	15	w.	State Normal School.
Towanda	Bradford	754	39	68.4	+0.2	96	1	46	6	37	7.32	+3.89	1.78	0	16	11	7	13	sw.	Mrs. M. Ordella Parks.
Wellsboro	Tioga	1,419	63	66.8	+0.7	94	1	42	15	43	6.87	+3.86	2.85	0	11	15	8	8	w.	George W. Hill.
West Chester	Chester	455	84	72.6	+0.7	94	1	57	11	27	12.59	+7.96	4.12	0	11	10	13	8	w.	Joseph W. Belt.
Williamsport	Lycoming	521	47	70.9	+0.2	96	1	50	6	33	9.43	+5.45	5.22	0	13	9	12	10	w.	Miss Veronica E. April.
York	York	400	45	73.9	+1.7	100	1	51	30	32	17.70	+13.75	8.48	0	10	13	12	6	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam II	Beaver	700	41	73.1	+1.2	97	25	51	15	38	3.44	-0.08	0.63	0	11	11	14	6	sw.	U. S. Engineer.
Bradford	McKean	1,460	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Supt. Timber Pres. Plant.
Brookville	Jefferson	1,173	43	68.2	+2.6	97	1	39	29	42	3.88	+0.01	1.14	0	11	11	12	8	.....	John Fawcett.
Butler	Butler	1,077	20	70.1	.....	95	1	42	29	40	2.51	-1.69	0.71	0	9	16	9	6	nw.	William C. Faust.
Chambersville	Indiana	1,047	3	69.6	-0.3	94	1	44												

Daily Precipitation for August, 1933

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh			.09	.90					.12		1.97	.01		.93	.03	T.	.09	.02	.03			1.86	.16	4.77	T.				.02			11.00
Altoona	Juniata	.04		.53	.47				.02	.03	2.56	.05	.04	.56	.05		T.	.05			.12			1.16	1.35	.02					.02		6.95
Ansonia	W. Br. Susq.		.16	T.	1.38					.28		.60	T.		.05								.23	T.	2.78							5.60	
Ardmore	Lower Del.			.02	1.66						.15	.60	T.		.85			.04	1.72				1.82	1.30	4.37	.04			.02	.08		T.	12.67
Arendtsville	Lower Susq.																																
Baker's Summit	Juniata		.01		.80				.01		.76	.03		.15	.02		.10	.02	.06	.09			T.	1.63	.72			.02			.05		4.47
Bedford	Juniata		.08		.85				.03		.54	.16				.05				1.00				1.70	.20			.19	.01			T.	4.81
Bellefonte	W. Br. Susq.	.01	.44	.27					.52		1.15	T.	.03	.27	.02		.14	.06						31.3	.39	.53			T.				7.14
Bethlehem	Lehigh		.11		.76				T.	.10	.23	1.72			1.16			.09	.03				.28	1.68	1.88	2.20			.03				10.27
Blossersville	Lower Susq.			1.65					.35		5.00						.50						.25	7.70				.05			.15		15.65
Buffalo Mills	Juniata			.60							1.26				.07										2.60						.28		4.76
Carlisle	Lower Susq.	.04	T.	.01	1.57				T.	.11	1.48	2.10		T.	.28		T.	.12	.01	T.	T.		.04	.60	2.07	2.67			.01		.03		11.14
Catawissa	N. Br. Susq.	T.	.22	.40					T.		1.95		T.	.36	.07								.16	.73	4.09	.58			T.				8.55
Center Hall	Susquehanna	.08	.26	.38					.12	.28	1.25	.25	.08	.55				.60	.10					.09	.65	3.00		.08					7.77
Chambersburg	Potomac	.14		T.	.58				T.		1.63	.51			.16			.16	.08	.03	.46		.06	.11	2.86	1.69		.07		.01		.08	8.63
Clearfield	W. Br. Susq.		.42	.65					.16		1.09	.12		.02			.11			.05			T.	.60	.73								3.95
Coatesville	Lower Del.			.35	3.00				.01		.40	.70	T.		1.00		.13	.08				1.30	1.89	3.38	1.03			.01	.01				13.29
Colebrook	Lower Susq.		.11	.72	.77				.01	.07	.52	.56			.87			.04	.08		.26		.61	2.01		5.66		.01	T.	.01	.03		13.74
Conshohocken	Schuylkill				1.12						* 1.02				1.24			.07	.54				.92	1.36	4.04	.19				.08			10.58
Cresson	Juniata	.24		.90					.12		1.42	.10		.20			.06							1.60	1.05								5.69
Doylestown	Lower Del.			2.01					.01	.12	1.42			.01	1.16			.08	.11		.17	.52	1.08	3.34	1.25	.03				.05			11.86
Emporium	W. Br. Susq.	.26	T.	1.31					.12		.51			.44						.11				.11	.80	.45			T.		.10		4.37
Ephrata	Lower Susq.		.29	2.75					.05	.62	1.17			.81			.18	.02	.11	.30	.50	2.02	3.26	.73									12.70
Forest City	N. Br. Susq.		1.03						.93	.06	.60			.28				.17	.05				1.70	.53	3.07	.31			T.				8.73
Freeland	Lehigh	T.	.02	.41		T.			.05		1.41	.02			.94	.05		.04	.03	.01			1.65	.91	5.62	.10				.04			11.30
Gaileton	W. Br. Susq.	.58		1.62					.06		.82			.17				.15	.27				.56	1.00	1.42								6.75
George School	Lower Del.			1.74						.09	.76			T.	1.31			.11	.19	.01	.03	.75	1.24	2.28	.88					.12			9.51
Gettysburg	Potomac	.05		1.97						2.85	1.02				.42		.10	.11	.01		.59	.03	.63	2.20	.79				.70		.04		11.51
Girardville	Lower Susq.	.03	.31	.77		.02			.05		2.07			.35				.02				1.19	.87	6.62	.12		.02				.02		12.46
Gordon	Lower Susq.		.47		.47				.07	.45	1.23			.52			.02	.02				.12	1.30	1.81	3.70			.08		.01			10.27
Gouldsboro	Lehigh				.35					.15		1.31			.65			.02			.26		1.48	1.25	1.35	2.85	2.01						11.71
Graterford	Schuylkill			1.81					.04	.06	1.22				1.35			.04	.01	T.			1.12	1.74	3.86	.94			.03				12.22
Hamburg	Schuylkill			2.60						2.25				*				1.12				.50	2.27	1.80	2.66								13.20
Hanover	Lower Susq.	T.	.08	.97					T.	1.12	.68			.55		.03	.04	.04	.18	.07	1.12	3.02	2.66					.05	T.		.01		10.53
Harrisburg	Lower Susq.	T.	T.	1.52	.02				.05		1.85	.01	T.	.37	.05		T.	.02	T.	.15	.05	.05	1.25	4.66	.62				T.				10.67
Hawley	Upper Del.	.35	.01		.18				.15		.96			.65			.02	.09	.24	.41			2.93	37.4	0.6	.03							11.45
Hollisterville	Upper Del.			.90						1.12	.02			.40			.02	.04	.05				2.02	.68	4.21	.03			T.	T.	T.		9.49
Holtwood	Lower Susq.	.05	1.30						T.	1.95		.10	.72	.03		.10	T.	.09	.01	1.17	.27	5.50	1.20								.03		12.52
Huntingdon	Juniata		.48	.90					T.	.02	2.68	.03		.05	.03		.47						2.36	1.50			.10	.04	T.				8.66
Hyndman	Potomac		T.	.05					T.	.05	.40						T.	.02	.01	.07	T.	.08	T.	3.35	.72				T.		.25		5.45
Kyletown	W. Br. Susq.	.18	.17	.34					.10	.05	1.27	.10	T.	.26				T.					.07	.83	1.12								4.49
Lakeville	Upper Del.		.10		.80					.13	1.10	.01			.90	.13							2.95	.35	4.60	.02							11.12
Lancaster	Lower Susq.		1.60	2.51						.50	1.27	.07		.40			.07	.07		1.30	.40	1.70	3.35	.70									13.94
Lansford	Lehigh		.09	1.09						.21				2.13			.13	.02					1.65	.75	6.19	.04				.05			14.31
Lawrenceville	N. Br. Susq.	T.	.22	20.14					.22		.52	.10		.52			.20			T.			.56	.43	2.30			.50					7.17
Lebanon	Lower Susq.		.04	1.38					.03		1.87			.87	T.		.02	T.	.22			1.16	1.12	5.72			.01		T.				12.44
Lewisburg	W. Br. Susq.	.02	.22	T.	.37				.06	.01	.94	1.01	.01	.70	.11		.07	.16				T.	.38	1.32	3.33				T.				8.71
Lock Haven	W. Br. Susq.	.03	.19		.34				.02	.03	.85	1.22		.83	.08		.68	.07					.13	.45	4.37			.10	.47				9.81
Lykens	Susquehanna	.03	.10	.06	1.08				.30	.54	.65			.85			.03	.03		.06	T.	.96	1.68	4.70				.48	T.				11.55
Marcus Hook	Lower Del.		.15	1.20					.22		* 1.00			1.40		*		* 67		* 2.05				* 4.15					.15				10.99
Matamoras	Upper Del.		.02	.47					.23																								

Daily Precipitation for August, 1933—Continued from page 38

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage																																		
Beaver Dam	Ohio				.59					.28	.05	.58	.07		.52					.14				.61				.36		.17	.07	3.44		
Beaver Falls	Beaver	.10		.58					.04	.26	.02	.34	T.		.03						.03			T.	.20	T.		.69		T.	.17	2.46		
Bradford	Allegheny																																	
Brookville	do	.09	.31	T.	.69					.20	T.	.44			.41			.06	.04	.50					1.02	.12						3.88		
Butler	Ohio		T.	.71					.09	.45	.29			.56			T.								.02	.25		.04			.10	2.51		
Chambersville	Allegheny			.57	.03				.35	.03	.71			.10			.25		.08						.46	.60		.25	.23	T.		3.66		
Clairton	Monongahela			.70					T.	.06	.83			.02			1.50	T.	.30						.30	.18			T.		.09	4.00		
Claysville	Ohio	T.	.02	.97	.32				.01		.56		.11	.28	.11			.40		.50					.22			T.	.04		.43	3.97		
Clymer	Conemaugh				.60					.42	1.00	.42			.20			.20	.10						1.20						T.	4.68		
Confluence	Youghiogheny	.09			1.08					T.	.80				.32			.20							1.75	.15			.54		.20	.15	.39	5.13
Corry	Allegheny	.07	.32	.70					.27		.04			.40											.10	.51					.03	2.44		
Coudersport	Allegheny	.29		1.66					.18		.71			.29				.07					.05	.43	1.17	.03			.02				4.90	
Derry	Conemaugh			.80	.33				.08	.09	1.29		.04	.42	.09		T.	.36	.03	T.					.69	.60		.02		.03		.03	4.90	
Donora	Monongahela		T.		1.37					.01	.36	.22	.12		.08		.20		.15						.61				T.	.02	.11	3.25		
Ebensburg	Conemaugh	T.	.01	.10	.60				.02	.15	1.87	.03	.03		.04		.25	.03						1.10	1.39	.03						5.65		
Elk Lick	Youghiogheny																																	
Franklin	Allegheny		1.24	.05	.96					.42		.06								T.				.05	.29	.05					.04	3.16		
Greensboro	Monongahela				1.77					.01	.03	.52	.03		.40		T.	.15		.09					.90	.09				.17		.38	4.54	
Greensburg	Youghiogheny		.05	.51	.28				.04	.03	1.33	.02	T.	.72	.06			.10	T.	.30				.44	.67	.09			T.		.07	4.62		
Greenville	Beaver		.71	.75	.02				.49		.03														.28						.08	2.31		
Grove City	do			.81					.14	T.	.27			T.										T.					T.			1.22		
Herr's Isl. Dam	Ohio		T.		.57				.09	.03	1.40	.01		.45			1.67		.07					.20	T.		.02			.01	.09	4.61		
Irwin	Monongahela		.02	.39	.34				.01	.09	1.15		.01	.13	.04		T.	.14	T.	.25				.12	.27		.03		T.		.10	3.09		
Johnstown	Conemaugh	.07	.01	1.00	.10				.10	.04	1.25	.01	.01	.06	.04		.01		.01					.95	.43			T.	.01		.03	4.13		
Kane (near) †	Allegheny		.99	1.10	.01				.16	T.	.23	.06		.28						.02				T.	.17	.82	.01			.03		.04	3.92	
Kregar	Youghiogheny		.02	1.68					.13		1.20	.05		.34			.07	T.		.52				2.03	.33		T.		.03		.04	.10	6.51	
Lake Lynn	Monongahela			1.64					.04	.03	.53	.05		.33				1.07		.07					.94	.15				.15	.31	5.31		
Linesville	Beaver		.81	.03	1.24				.04	.15		.02												T.	.21	.04			T.			2.64		
Lock No. 2	Ohio		.12		.74				.11	.03	1.83	.02		.09			.36	.06	.06						.41	T.		.10			.11	4.04		
Lock No. 4	Monongahela		T.		1.24				.02	.05	.66	.05		.23			.24		.11						.56	T.		.06		.03	T.	3.15		
Lock No. 5†	Allegheny	.46	.01		.43				.01	.70	.01	.69	.07		.07		.73		T.						.52			.03				3.63		
Lycippus	Conemaugh	.20		1.20	.20				T.	1.30				.66	.15		T.	.30		T.					.68	.71		.23			.10	5.73		
McKeesport	Monongahela				.80				.14	T.	1.31	T.		.04			1.53	T.	.11						.43	T.		.10		.01	.06	4.55		
Meadville	Allegheny		.23	.98	.04				.24		.03		.02											.03	.48						.01	2.06		
Mosgrove	do				.45				.05	.19	T.	.28		.20			.26	.05	T.						.45	.01		.02	T.			1.96		
Mount Lebanon	Ohio		T.	1.09					T.	.06	1.35		T.	.84	T.		.45	.02	.11					.17	.30		.02	T.			.23	4.76		
Natrona	Allegheny		.04		.52				.30	.03	.68	.01		.26			.27		.01						.60	.03		.12	T.		.05	2.92		
New Castle	Beaver	T.	.02		.79	.01			.56	.02	.34			.16			.40		.07					.01	.44	.02		.03			.10	2.57		
Newell	Monongahela			1.05						.65	.60			.40			.27		.20						.37	.10						3.64		
Parkers Landing	Allegheny	.28	.14		.52				.08	T.	.26			.12					.35						.22	T.		T.			.02	1.99		
Pennline	Beaver		.77		.92				.13	.01	.11	T.												T.	.20	.04						2.18		
Pittsburgh	Ohio		T.	1.04					.05		1.52		T.	.45			1.98	.01	.08						.13	.06		T.	.03	T.	.16	5.51		
Punxsutawney	Allegheny			.56					.40		.28			.58				.32		.85					.81	.29		.18	.43			4.70		
Ridgway	do	T.	.24		.62				.09		.48							.02		.02					.04	.94			.62	.01		3.06		
Saltsburg	Conemaugh			.69					.15	.03	2.28			.48			.84		.22						.88			.11			.04	5.72		
Sharon	Beaver	.29	.05		.88				.08	.03	.17							.24		.24					T.	.06						1.80		
Smethport	Allegheny	.19	.39	.02	1.39				.13	T.	.63	.03		.18	.16		.28	.01						T.	.25	1.36	.03		.68	T.	.51	5.10		
Somersett	Youghiogheny	.11	.03		1.42				.01	.01	1.52			.18	.16		.28	.01							1.41	1.05			.04		.23	6.41		
Springdale	Allegheny		T.	T.	.74				.23	.26	1.86	.01		.63			.31		.03						.56	.02		.02		.01	.10	4.78		
Uniontown	Monongahela		T.		.82	.39			.01	.03	1.02		.04	.72	.37		.25	.07		.05					.46	.56			.07		.22	5.08		
Unity Reservoir	Youghiogheny		.22	.50	.07				.03	.03	1.39			.66	.18			.08		.18					.60	.71			.02		.10	4.77		
Vandergrift	Conemaugh		.02	.60					.37		.73			.49			1.29								.68	.19		.63	T.		.06	5.06		
Warren	Allegheny	.14		1.99					.26		.08								.01						.20	.40					.04	3.12		
Waynesburg	Monongahela			1.40	.23				.06		.66			.28	.24		1.04	.35		.75					.14	.51			.12		.31	6.09		
Westford	Beaver	.64	.22	1.23			.06		.32		.10														.20							2.77		
West Newton	Youghiogheny				1.17				T.		.07	.66	.11		.24			.18		.09	.16				.45	.04		.17		.02	.17	3.43		
Lake Drainage.																																		
Erie	Lake Erie		T.	.97					.32		T.	.13	T.	.10										T.	T.	.93					T.	2.45		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * Included in next measurement.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox; of Lock No. 5, Schenley. † Mdt. to mdt.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations	Atmospheric pressure (reduced to sea level)					† Wind	
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Daily Temperatures for August, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum.....	97	94	87	77	81	82	83	87	83	73	68	81	88	77	81	80	78	81	86	81	67	70	73	75	85	90	87	85	79	78	72	80.8	
	Minimum.....	72	75	63	65	56	53	59	60	65	63	56	59	63	66	55	56	60	64	67	66	66	59	59	66	68	65	66	64	61	51	55	62.0	
Altoona.....	Maximum.....	91	89	83	76	80	79	80	78	84	78	78	84	89	79	79	77	81	84	81	76	74	68	68	68	85	87	85	76	76	75	67	79.2	
	Minimum.....	71	68	52	59	49	51	52	56	63	59	60	61	59	59	49	52	61	62	59	60	61	58	61	65	58	61	61	57	49	46	55	58.0	
Bedford.....	Maximum.....	99	94	92	90	81	85	86	86	87	85	83	87	93	85	82	88	88	86	80	77	78	74	69	74	87	90	86	77	79	89	77	84.2	
	Minimum.....	67	73	62	62	50	50	52	56	62	61	62	63	58	49	53	61	65	58	60	63	64	65	66	65	60	58	59	60	51	47	59	59.4	
Bellefonte.....	Maximum.....	91	87	86	75	80	82	84	80	79	68	73	84	90	78	78	80	80	81	79	79	74	68	68	73	83	87	86	74	74	75	69	78.9	
	Minimum.....	71	59	57	53	47	49	55	59	60	59	59	59	58	56	50	52	65	61	57	59	59	66	67	62	59	59	58	50	44	48	57.8		
Brookville.....	Maximum.....	97	97	87	85	78	84	86	85	80	83	87	84	82	85	88	78	79	81	87	86	84	84	81	82	74	75	80	88	90	70	78	83.0	
	Minimum.....	65	66	52	57	42	45	51	59	58	55	60	56	59	54	40	42	57	58	58	50	47	54	62	65	51	56	55	48	39	39	53	53.3	
Butler.....	Maximum.....	95	94	86	82	80	85	85	83	84	80	83	87	84	82	81	86	83	84	81	84	82	80	77	74	89	87	90	87	80	79	78	83.6	
	Minimum.....	72	71	61	59	47	48	52	64	55	61	55	65	60	56	46	46	58	66	62	59	55	52	61	64	55	56	57	49	42	43	59	56.6	
Carlisle.....	Maximum.....	101	95	93	90	88	87	85	90	86	85	80	74	90	83	85	86	85	80	86	87	85	76	66	70	76	88	92	90	85	80	81	78	84.9
	Minimum.....	72	72	67	62	51	53	55	57	65	65	61	57	59	63	53	56	67	70	64	64	64	60	66	68	62	63	65	58	49	58	61.6		
Catawissa.....	Maximum.....	96	91	85	82	86	90	86	84	86	80	74	90	94	83	85	87	88	87	88	87	88	72	69	75	76	87	94	91	86	83	86	80	84.8
	Minimum.....	71	70	58	59	50	49	55	65	62	56	58	60	60	53	52	65	69	65	63	68	58	63	68	62	59	64	63	59	48	56	60.3		
Chambersburg.....	Maximum.....	101	93	93	79	86	88	87	91	89	78	70	89	93	84	85	84	85	88	89	81	77	66	70	79	90	93	84	83	79	81	78	84.1	
	Minimum.....	72	72	69	64	50	55	55	59	67	66	58	58	61	64	54	57	65	69	53	63	64	59	64	64	65	63	63	63	58	51	58	61.4	
Chambersville.....	Maximum.....	94	91	88	75	82	85	85	85	82	71	83	86	89	81	81	86	84	85	81	79	80	73	73	71	88	89	90	79	75	79	69	81.9	
	Minimum.....	68	68	57	59	46	50	59	62	60	60	63	62	64	57	45	49	58	62	60	55	55	53	62	65	56	59	58	52	44	46	58	57.2	
Claysville.....	Maximum.....	97	95	91	80	84	87	88	83	86	82	83	86	89	81	85	88	86	82	81	82	79	77	83	91	91	91	83	80	80	78	73	85.1	
	Minimum.....	72	71	66	61	49	60	60	66	61	63	64	63	68	57	47	52	60	64	59	54	59	54	62	64	55	58	63	56	47	60	59.3		
Clearfield.....	Maximum.....	95	90	86	79	84	82	83	77	82	66	80	86	84	89	80	86	83	86	84	83	82	78	76	72	73	84	88	86	85	77	79	81.6	
	Minimum.....	68	67	54	58	47	50	54	52	57	57	60	60	64	56	46	51	60	59	61	55	55	52	63	65	60	55	58	60	46	44	59	56.2	
Coatesville.....	Maximum.....	97	94	87	77	80	84	88	88	85	88	69	62	57	60	68	65	57	58	63	67	69	65	61	60	68	68	64	65	66	61	56	56	63.5
	Minimum.....	74	77	68	64	60	57	58	58	60	71	80	83	85	80	82	86	88	81	76	78	79	76	76	73	88	88	87	77	77	78	70	80.7	
Corry.....	Maximum.....	99	80	80	74	82	86	84	79	80	71	80	83	85	80	82	86	88	81	76	78	79	76	76	73	88	88	87	77	77	78	70	80.7	
	Minimum.....	70	63	55	54	48	47	60	65	54	56	53	63	66	49	45	47	49	65	58	60	55	48	60	62	56	55	56	48	43	42	56	55.1	
Coudersport.....	Maximum.....	90	88	84	74	77	80	80	80	75	76	76	83	82	75	77	81	82	82	77	75	73	71	68	68	82	84	83	70	73	76	72	77.9	
	Minimum.....	60	60	47	54	43	46	41	58	55	50	56	58	56	53	41	44	59	62	54	47	46	47	60	64	54	51	52	52	44	38	48	51.6	
Emporium.....	Maximum.....	90	82	78	74	77	78	81	77	77	67	78	81	85	76	77	83	81	86	77	72	75	73	71	68	68	82	84	83	70	73	76	73.5	
	Minimum.....	68	65	52	58	50	50	55	60	61	55	61	60	58	58	48	52	59	61	53	52	52	65	67	60	57	60	55	48	45	53	56.8		
Erie.....	Maximum.....	88	79	71	75	73	83	86	78	73	74	80	83	78	73	78	81	86	77	72	75	73	71	68	68	82	84	83	70	73	76	72	77.5	
	Minimum.....	77	69	61	62	58	59	65	69	63	64	62	69	66	61	58	60	64	66	62	59	59	61	64	64	70	65	58	55	57	58	62.9		
Franklin.....	Maximum.....	101	91	85	81	85	88	86	75	85	70	90	90	85	80	86	92	88	88	85	89	90	80	82	75	92	92	90	70	83	74	78	84.9	
	Minimum.....	67	64	57	57	49	50	55	61	55	58	60	63	62	52	45	48	52	52	59	50	54	50	58	65	55	56	52	51	49	49	55.1		
Freeland.....	Maximum.....	92	90	82	74	75	77	79	80	74	69	68	77	84	78	74	78	73	77	77	77	71	65	68	68	80	82	81	77	69	75	70	76.2	
	Minimum.....	73	72	59	55	54	58	59	61	57	52	58	67	57	56	61	60	62	64	59	55	53	62	64	62	63	64	64	53	52	55	59.5		
Gettysburg.....	Maximum.....	98	92	91	88	82	84	84	88	86	80	72	86	90	88	82	79	82	85	88	82	78	67	70	80	89	92	89	85	60	55	60	64.3	
	Minimum.....	74	75	73	64	56	59	57	63	67	66	58	62	64	65	60	63	68	66	65	60	67	69	66	66	71	65	60	55	60	53	63.5		
Greensburg.....	Maximum.....	95	90	89	76	82	86	85	83	84	74	83	85	88	80	82	84	86	84	79	82	79	77	74	77	87	89	88	79	76	80	73	82.5	
	Minimum.....	72	71	67	61	52	54	61	65	62	63	65	65	64	61	50	55	60	65	60	63	59	56	62	65	59	63	61	58	48	50	58	60.5	
Grove City.....	Maximum.....	91	93	87	79	80	81	90	84	83	80	79	84	82	77	73	85	85	81	79	83	82	79	78	79	87	88	85	68	50	52	50	59.3	
	Minimum.....	65	67	58	62	58	54	63	68	57	61	59	64	67	56	53	55	58	62	59	55	63	67	59	63	62	52	50	52	50	52	50	59.3	
Hamburg.....	Maximum.....	97	94	90	82	78	80	82	82	83	82	76	86	88	80	82	79	82	84	86	84	79	82	79	78	79	87	88	85	80	80	80	81.4	
	Minimum.....	70	71	60	65	56	52	52	56	62	56	62	68	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	60.1
Harrisburg.....	Maximum.....	97	90	84	77	82	82	82	87	83	73	71	87	90	81	82	79	81	84	86	82	72	70	72	77	87	91	87	81	76	77	71	81.3	
	Minimum.....	77	74	68	66	60	61	64	65	70	61	58	63	66	64	60	67	70	68	66	62	60	67	69	66	68	68	67	62	56	61	65	65.0	
Hawley.....	Maximum.....	95	90	81	74	80	83	82	78	79	76	68	83	88	82	82	81	77	81	80	79	75	65	67	70	83	88	87	81	76	78	7		



CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

G. S. BLISS.

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GENERAL SUMMARY.

Temperatures and rainfall were above the normal in nearly all parts of the State. Temperatures were constantly above the normal during the first ten and last seven days of the month, the greatest departures being from the 25th to 27th inclusive, although the highest temperature for the month occurred at many stations on the 8th. The minimum for the State, of 32°, was higher than usual for September. In fact, lower temperatures have been recorded every September since 1910. Two periods of heavy general rains were responsible for the excess that was reported in more than four-fifths of the State. The first heavy rains occurred on the 3d and 4th, and covered practically the whole State. They were especially heavy in a few northwestern counties where a severe drought condition had developed in July and August. The second period of heavy rains was from the 14th to 16th inclusive. During that time heavy local showers were numerous in the Delaware and Susquehanna basins, while the rainfall in the Ohio drainage was generally moderate. These rains were generally helpful in the western half of the State in restoring pastures and late truck crops. They were too late to help corn or potatoes. September brought near to its close a crop season that was unfavorable in many respects. Late frosts in spring caused serious damage to the fruit crop, and a tropical storm in August, the most destructive during the last forty years, caused widespread damage to crops in the eastern half of the State. This storm occurred at a time when the greater portion of the corn was fully and heavily eared. It was beaten down to stay down, with the result that cutting proceeded very slowly in September. The ears of corn matured better than seemed possible just after the storm, but the losses to the fodder were very heavy. The excessive rains in the eastern half of the State were harmful, rather than helpful to potatoes, causing a marked increase in blight and rot. Wheat seeding was ready to begin about the middle of the month when the heavy rains of the 14th to 16th caused a delay of nearly a week for the soil to dry out to a workable condition. As a result it was still in progress, though well advanced, at the close of the month. The monthly rainfall in Carbon and Monroe counties was in excess of ten inches, and flooded many mines. No estimate of the damage can be made.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 66.3°, an excess of 2.2° as compared with the September normal. The highest monthly mean was 71.6° at Marcus Hook, and the lowest, 56.6° at Gouldsboro. Extremes for the month ranged from a maximum of 98° at Sharon on the 8th, to a minimum of 32°, at Corry on the 12th. The greatest daily range in temperature was 47°, and occurred at Brookville on the 11th, and at Ridgway on the 12th.

PRECIPITATION.

The average precipitation for the State, as determined by the reports of 143 well-distributed stations, was 4.66 inches, which is an excess of 1.20 inches as compared with the September normal. The greatest monthly amount was 11.67 inches, at Mauch Chunk, while the least, 2.23 inches, occurred at Ridgway. The greatest amount recorded in any 24 consecutive hours was 7.01 inches, at Mauch Chunk on the 3d-4th.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1888.....	59.6	-4.5	84	29	4.84	+1.38	10.93	1.75	.....	10	8	11	11
1889.....	61.9	-2.2	92	30	5.05	+1.59	10.01	2.71	.....	13	8	8	14
1890.....	62.2	-1.9	91	25	4.57	+1.11	8.54	2.05	.....	11	10	9	11
1891.....	66.6	+2.5	94	32	2.39	-1.07	5.00	1.05	.....	7	17	8	5
1892.....	62.4	-1.7	90	29	2.81	-0.65	4.85	1.18	.....	7	16	7	7
1893.....	61.2	-2.9	90	26	2.67	-0.79	5.59	0.72	.....	8	9	12	9
1894.....	66.6	+2.5	95	24	6.30	+2.84	12.36	2.82	.....	10	10	10	10
1895.....	67.8	+3.7	100	24	1.71	-1.75	5.41	0.37	.....	6	16	9	5
1896.....	63.6	-0.5	98	26	4.82	+1.36	8.57	1.73	.....	10	13	8	9
1897.....	63.8	-0.3	100	24	2.18	-1.23	4.21	0.25	.....	5	18	7	5
1898.....	66.0	+1.9	100	25	1.70	-1.76	3.95	0.38	.....	6	16	8	6
1899.....	61.8	-2.3	93	23	4.70	+1.24	9.31	2.03	.....	10	12	9	9
1900.....	68.4	+4.3	100	27	1.77	-1.69	6.90	0.48	.....	6	13	10	7
1901.....	63.6	-0.5	95	29	3.39	-0.07	6.61	1.64	.....	9	14	7	9
1902.....	62.7	-1.4	99	28	4.66	+1.20	11.95	1.50	.....	11	12	8	10
1903.....	63.2	-0.9	94	27	2.09	-1.37	3.88	0.91	.....	6	17	8	5
1904.....	63.7	-0.4	95	21	3.37	-0.09	7.40	0.82	.....	9	13	10	7
1905.....	64.0	-0.1	95	27	3.41	-0.05	7.30	1.70	.....	7	15	9	6
1906.....	67.0	+2.9	99	30	2.46	-1.00	6.57	0.36	.....	7	15	9	6
1907.....	64.8	+0.7	95	29	6.37	+2.91	11.86	2.18	.....	14	8	10	12
1908.....	65.6	+1.5	99	26	1.60	-1.86	4.06	0.51	.....	3	17	9	4
1909.....	62.8	-1.3	96	26	2.27	-1.19	4.90	0.64	.....	6	15	9	6
1910.....	65.5	+1.4	95	32	4.49	+1.03	8.45	2.26	.....	10	13	8	9
1911.....	64.9	+0.8	92	26	5.29	+1.83	10.18	1.85	.....	10	13	9	8
1912.....	65.5	+1.4	95	25	5.57	+1.11	11.43	2.47	.....	12	12	7	11
1913.....	62.4	-1.7	97	24	3.28	-0.18	8.43	1.24	.....	8	13	7	10
1914.....	61.5	-2.6	98	21	0.99	-2.47	2.67	0.03	.....	5	18	7	5
1915.....	66.5	+2.4	96	25	2.56	-0.90	6.96	0.45	.....	8	16	9	5
1916.....	62.5	-1.6	98	23	3.77	+0.31	8.18	0.91	.....	8	17	8	5
1917.....	59.0	-5.1	91	25	2.31	-1.15	6.34	0.00	.....	6	16	9	5
1918.....	58.7	-5.4	88	28	3.97	+0.51	7.52	1.82	.....	10	12	8	10
1919.....	64.4	+0.3	96	28	2.07	-1.39	4.57	0.46	.....	8	16	8	6
1920.....	64.5	+0.4	91	24	3.99	+0.53	9.40	0.97	.....	9	16	8	6
1921.....	68.9	+4.8	98	31	4.68	+1.22	11.48	1.47	.....	11	13	9	8
1922.....	66.3	+2.2	100	22	1.48	-1.98	3.73	0.17	.....	4	19	7	4
1923.....	64.8	+0.7	92	22	3.55	+0.09	8.68	1.54	.....	10	13	10	7
1924.....	59.8	-4.3	99	26	6.44	+2.98	11.72	3.46	.....	11	11	7	12
1925.....	67.5	+3.4	99	24	2.80	-0.66	7.63	0.86	.....	8	11	12	7
1926.....	64.2	+0.1	99	26	5.81	+2.35	13.90	2.23	.....	12	11	7	12
1927.....	64.9	+0.8	97	27	2.08	-1.38	7.00	0.20	.....	6	18	7	5
1928.....	60.4	-3.7	94	25	2.33	-1.13	5.73	0.71	.....	9	12	9	9
1929.....	65.7	+1.6	101	24	3.71	+0.25	8.72	1.05	.....	9	14	8	8
1930.....	67.8	+3.7	101	27	2.45	-1.01	7.01	0.64	.....	9	15	10	5
1931.....	69.1	+5.0	104	29	3.15	-0.31	6.65	0.74	.....	9	16	8	6
1932.....	65.2	+1.1	105	23	1.45	-2.01	3.43	0.48	.....	6	16	9	5
1933.....	66.3	+2.2	98	32	4.66	+1.20	11.67	2.23	.....	12	13	8	9
Period.....	64.1	.....	105	21	3.46	.....	13.90	0.00	.....	9	14	9	7

Climatological Data for September, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches				No. of days			Prevailing direction of wind	Observers			
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation of 1/8 in or more			Clear	Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	21	66.0	+0.4	87	25†	42	30	34	5.94	+2.59	2.05	0	13	22	2	6	s.	John A. Frick.
Altoona	Blair	1,615	46	65.0	+1.9	89	7†	42	30	34	4.08	+1.21	1.12	0	17	18	4	8	w.	F. E. Rooney.
Ardmore	Montgomery	350	1	69.8	+2.5	91	25	51	23	26	5.91	+1.96	1.89	0	11	18	4	8	sw.	H. G. Balderston.
Bedford	Bedford	1,060	1	67.4	.....	92	7†	44	30	38	3.29	.....	0.78	0	12	16	3	11	sw.	Charles C. Lee.
Bellefonte	Center	1,050	25	63.2	-1.7	86	8	40	30	33	5.49	+2.38	2.56	0	14	7	10	13	sw.	U. S. Weather Bureau.
Bethlehem	Northampton	364	48	68.8	+2.1	89	25†	48	30	34	5.97	+2.63	2.14	0	11	16	4	10	w.	Lehigh University.
Carlisle	Cumberland	467	67	68.5	+3.3	91	25	44	30	34	6.95	+3.47	3.43	0	8	16	4	10	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	37	66.6	+2.6	89	8†	42	11	35	6.56	+3.14	1.95	0	11	18	3	9	.....	W. L. Gearhart.
Center Hall	Center	1,272	37	62.1	-0.1	88	25	41	29	35	4.76	+1.69	1.10	0	9	16	5	9	.....	S. W. Smith.
Chambersburg	Franklin	580	34	68.4	+2.3	92	25	46	23†	34	4.63	+1.71	1.92	0	11	10	11	9	sw.	William B. Spear.
Clearfield	Clearfield	1,120	26	64.8	+0.9	91	8	41	28	39	3.29	-0.19	0.76	0	11	9	11	10	w.	E. W. Hess.
Coatesville	Chester	380	46	68.4	+2.2	90	9	48	30	30	4.21	+0.37	1.30	0	11	18	3	9	nw.	Howard L. Pyle.
Colebrook	Lebanon	560	22	65.0	+0.8	85	8†	43	23	30	5.57	+2.00	2.27	0	13	17	4	9	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	46	62.9	+1.5	86	8	38	13	33	2.89	-0.60	1.09	0	10	12	7	11	e.	T. B. Lloyd.
Ephrata	Lancaster	380	41	69.0	+3.2	92	8	46	23	34	3.11	-0.36	0.76	0	10	14	6	10	ne.	Ira J. Keath.
Freeland	Luzerne	1,970	40	62.8	+3.2	83	27	44	11	22	6.51	+2.73	1.91	0	13	13	5	12	nw.	Theo. Reichmann.
George School	Bucks	190	27	69.5	+3.5	92	25	48	23	31	5.25	+1.98	1.80	0	10	16	8	6	w.	Prof. N. W. Swayne.
Gettysburg	Adams	553	60	69.4	+3.8	89	8†	47	23	31	4.67	+1.23	2.20	0	12	14	6	10	w.	Dr. Henry Stewart.
Gordon	Schuylkill	840	29	62.2	-0.1	81	6†	38	30	35	6.18	+1.95	2.42	0	11	17	4	9	w.	Sallie M. Johnson.
Gouldsboro	Wayne	1,875	18	56.6	.....	72	3†	35	13	25	7.63	+3.99	2.51	0	8	15	6	9	w.	Gustav Holtz.
Hamburg	Berks	535	40	65.2	-0.1	89	25†	44	20	34	5.17	+1.12	2.02	0	11	12	14	4	w.	State Sanatorium.
Hanover	York	600	29	70.0	+2.4	91	8†	49	23	31	3.82	+0.74	1.52	0	10	16	5	9	w.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	64	68.6	+2.8	88	25	50	30	27	3.59	+0.54	1.44	0	10	7	11	12	w.	U. S. Weather Bureau.
Hawley	Wayne	900	15	62.2	+0.5	86	27	34	13	40	6.82	+3.46	2.84	0	13	12	13	5	w.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	18	70.2	+1.2	90	9	53	23	21	2.55	+0.04	0.93	0	13	17	3	10	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	46	66.2	+1.6	90	10	43	30	35	3.43	+0.12	1.24	0	13	13	7	10	e.	Prof. Paul R. Yoder.
Hyndman	Bedford	977	21	69.2	+3.8	94	7†	42	30	43	3.46	+0.49	0.97	0	14	14	3	13	.....	Horace A. Sheavly.
Kylertown	Clearfield	1,637	3	62.6	.....	88	8	35	30	39	5.07	.....	1.87	0	12	14	9	7	sw.	Bureau of Plant Industry.
Lancaster	Lancaster	255	46	66.0	+0.5	92	25	42	23	38	4.52	+1.16	0.87	0	8	14	10	6	nw.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	36	64.4	+2.9	88	8	39	30	39	3.00	-0.01	1.20	0	7	10	14	6	.....	C. P. Darling.
Lebanon	Lebanon	469	49	68.5	+2.9	91	25	46	23	32	3.73	+0.40	1.49	0	10	19	3	8	sw.	Lebanon Valley Gas Co.
Lewisburg	Union	450	57	67.7	+1.3	89	6	44	30	34	4.17	+0.68	1.04	0	13	15	7	8	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	43	67.0	+2.2	89	6	44	30	34	6.43	+3.02	2.25	0	17	8	15	7	sw.	Joseph Beaver.
Lykens	Dauphin	680	18	65.6	+1.2	91	25	39	30	40	6.09	+1.79	2.24	0	12	15	6	9	sw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	6	71.6	.....	94	7†	55	30	38	3.12	.....	.....	0	6	15	4	11	ne.	Sun Oil Co.
Mauch Chunk	Carbon	600	44	64.1	-0.1	89	8	42	30	36	11.67	+7.67	7.01	0	9	19	4	7	w.	R. K. Wintermute.
Millintown	Juniata	445	29	68.9	+4.4	94	8	41	11	39	4.44	+0.96	2.57	0	9	14	4	12	w.	W. H. Manbeck.
Montrose	Susquehanna	1,658	29	60.9	+0.3	80	8†	38	13	34	8.74	+4.85	3.40	0	12	9	12	9	s.	Silas Jagger.
Mt. Pocono	Monroe	1,720	27	60.0	+1.6	82	8†	41	13	28	10.55	+5.59	3.90	0	8	18	5	7	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	21	61.6	+0.1	84	25	38	11†	34	8.10	+4.25	3.46	0	10	16	9	5	w.	H. O. Hacker.
Neshaminy Falls II	Bucks	60	44	67.8	+2.4	89	9†	46	23	31	5.17	+1.77	1.25	0	14	14	9	7	ne.	Philadelphia Sub. Water Co.
Palmerton	Carbon	398	15	65.6	.....	86	9†	45	11†	30	5.83	+2.36	1.50	0	10	19	2	9	ne.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	62	71.2	+3.2	91	25	55	16	22	4.17	+1.03	1.25	0	11	7	12	11	w.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	9	71.0	.....	93	25	52	23	26	5.18	.....	1.39	0	11	5	16	9	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	17	70.3	+2.1	88	9†	53	23	24	4.23	+1.08	1.02	0	12	5	13	12	w.	Commandant, Navy Yard.
Phoenixville	Chester	100	23	70.7	+4.3	96	10	46	23	40	4.84	+1.59	1.56	0	9	12	12	6	w.	Philadelphia Sub. Water Co.
Quakertown	Bucks	496	48	65.9	+1.9	86	9	42	23	31	4.63	+1.00	1.53	0	10	15	8	7	nw.	John E. Bonner.
Reading	Berks	514	63	68.2	+1.9	89	25	51	30	23	2.84	-0.37	0.75	0	13	11	8	11	nw.	U. S. Weather Bureau.
Seranton	Lackawanna	805	39	64.6	+1.7	86	8	41	13	31	5.33	+2.16	1.89	0	10	7	11	12	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	43	66.9	+2.1	89	3	45	11	33	4.97	+1.45	2.05	0	16	8	13	9	w.	Dr. George E. Fisher.
Shawmont II	Philadelphia	51	37	69.6	+1.5	87	9†	48	23	27	5.31	+2.03	1.44	0	12	8	10	12	w.	W. S. Gules.
Shippensburg	Cumberland	660	.....	68.6	.....	88	7†	47	30	29	5.58	.....	2.10	0	11	10	10	10	sw.	State Teachers College
State College	Center	1,217	49	64.8	+2.2	88	25	43	30	34	3.49	+0.43	0.76	0	15	12	11	7	sw.	C. A. Kern.
Stroudsburg	Monroe	500	19	61.8	-0.6	86	6	40	13	35	10.07	+7.18	3.50	0	11	13	6	11	nw.	State Normal School.
Toxanda	Bradford	754	39	63.9	+1.6	88	8	39	30	37	6.18	+3.03	1.77	0	12	7	10	13	sw.	Mrs. M. Ordella Parks.
Wellsboro	Tioga	1,419	63	62.4	+2.7	88	8	36	11†	45	3.14	-0.02	1.09	0	6	17	7	6	sw.	George W. Hill.
West Chester	Chester	455	84	68.2	+2.7	88	9	52	23†	22	5.79	+1.90	1.70	0	13	13	10	7	w.	Joseph W. Belt.
Williamsport	Lycoming	521	47	66.0	+1.6	88	6	43	13†	32	6.27	+3.00	2.03	0	14	13	5	12	nw.	Miss Veronica E. April.
York	York	400	45	69.2	+3.0	92	8	45	23	34	3.32	+0.01	1.44	0	10	18	6	6	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam II	Beaver	700	41	69.6	+3.4	90	8	45	30	35	3.68	+0.62	1.08	0	13	8	8	14	sw.	U. S. Engineer.
Brookville	Jefferson	1,173	43	64.2	+4.1	92	9	33	30	47	2.47	-0.86	0.88	0	9	9	7	14	.....	John Fawcett.
Butler	Butler	1,077	20	66.0	93	8	37	30	46	3.61	+0.68	0.75	0	13	16	5	9	sw.	William C. Faust.
Chambersville	Indiana																			

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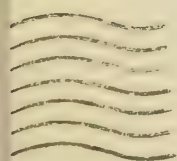
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh			.33	.56	.85									.42	2.05	1.06	.01				.01		.03		.43		T.		.02	.16		5.94	
Altoona	Juniata	.12		.12	.12							.10	.44	.20	.50	.32	.50	T.				.09	.13	.05	.03	.04			.07	.12	.13		4.08	
Ansonia	W. Br. Susq.	.34		.46	1.11					T.					.41	.98								.13	T.	.28				.80			4.51	
Ardmore	Lower Del.		T.		.90								.30	.02	1.89	1.33	.10						.01			.06			.12	.04	.05		5.91	
Baker's Summit	Juniata	.08		.48	.31					.20		.01	.46		.90	.23	.08						.14	.04					.02	.38	.90		3.29	
Bedford	Juniata	.21		.50	.46							.78	T.		.07	.38	.04						.18	T.	.03				.01	T.	.06	.07	3.29	
Bellefonte	W. Br. Susq.	.02		2.31	.35							.13			.60	.37	.24	T.			.04	.47	.06	T.	.48			.02	.34	T.	.06		5.49	
Bethlehem	Lehigh	T.		.37	1.59								.01	T.		.72	.14	.28					.04	T.	T.	.48			.01		.03	.25	5.97	
Blossersville	Lower Susq.	.20			.65								.35		.20	2.10	1.40											.05			.10		7.28	
Buffalo Mills	Juniata				.65	.25					.05		.57			.96	.10	1.76					.18					T.	T.		.17		4.67	
Carlisle	Lower Susq.	.10		.82	1.29							.31	T.			3.43	.79	T.				.04				T.		T.					6.95	
Catawissa	N. Br. Susq.	T.		1.95	.55								T.		.73	1.25	1.30	T.				.02	.06		.38			.03	.11	.18			6.56	
Center Hall	Susquehanna			1.10	.67									.10		.70	.10	.55							.38	.90					.26		4.76	
Chambersburg	Potomac	.05		1.51	.41						.03		.28		.02	1.17	.71					.07	T.			.01			T.		.37		4.63	
Clearfield	W. Br. Susq.	T.		.10	.40						.11		.02	.55	.76	T.						.73	.11	.15	.18			T.		.06	.55		3.29	
Coatesville	Lower Del.	.15		.01	.61							.30	T.	1.30	1.05	.12						.01			.05					.06	.29		4.21	
Colebrook	Lower Susq.	.03		2.27	.70						.05		.17	.05	.38	1.10	.35							T.	.02				T.	.05			5.57	
Conshohocken	Schuylkill		.06		.42							.19	.14	1.00	.90	T.						.02	T.		.07						.60		3.40	
Cresson	Juniata			.68	1.00						.40	.23	.06	.32	.40	.15	.06						.38						.40				4.08	
Doylestown	Lower Del.			T.	.82									T.	.73	1.13	.03					T.	.14	.12	.20			T.		.04	.58		4.64	
Emporium	W. Br. Susq.	.25		.78	.10							T.		T.	.09	T.	.03					T.	.14	.12	.20			T.	.11		.07		2.89	
Ephrata	Lower Susq.			.08	.33						.34			.29	.76	.61	T.						.03			.03			.03	.61			3.11	
Forest City	N. Br. Susq.			1.01	.70	.37	T.	.18			.37				.32	.48	.76	.27				.04	T.	.15	T.	.05	.04		.05				4.88	
Freeland	Lehigh	.04		.02	1.91	.06							T.		.27	1.65	1.84	.03					.06		.38	T.	.02	T.	.11	.12			6.51	
Galeton	W. Br. Susq.	.33		.70	.75									T.	1.06	.14						T.	.14	.09	.12		.04		.42		.06		3.85	
George School	Lower Del.			.02	.86						.16				1.80	.78	.07					T.	.01		T.	.17		T.		.46	.92	T.		5.25
Gottysburg	Potomac	.19		T.	.43						T.	T.	.18	.03	.03	1.28	2.20	.01				.13			.01			.01		T.	.17		4.67	
Girardville	Lower Susq.	.40		2.04	.14										.16	.34	1.09	.64	.48			.06		.20		.25		.15		.15			6.10	
Gordon	Lower Susq.	T.		.20	2.42							.08			.38	1.82	.53					.11	.04			.47			.05	.13			6.18	
Gouldsboro	Lehigh			.02	2.51						.45					2.25	1.85	.25							.15					.15			7.63	
Graterford	Schuylkill			.03	.28							.17		.41	1.53	.29						.06			.05				.06	.54			3.42	
Hamburg	Schuylkill			.40	2.02							.20	.01	.56	.60	.45						.30	.32			.20				.11			5.17	
Hanover	Lower Susq.			.05	.22						T.	.30	.20	.08	.57	1.52						.47			T.				T.	.40			3.82	
Harrisburg	Lower Susq.	T.		.36	.28						.10	.11		.54	1.23	.12						T.	.10	T.	.04			T.	.21				3.59	
Hawley	Upper Del.	T.		.12	2.84	.04		.06			.36			.14	1.43	1.00	.64						T.	.08		.05			.02		.04		6.82	
Hollisterville	Upper Del.			.05	1.50	.02									.24	2.41	1.23	1.45	T.	T.	T.		T.		T.	.20		.01					7.11	
Holtwood	Lower Susq.			.33	.02						.16	.14		.93	.32	.12	.02					.12			.08		.04		.05	.27			2.55	
Huntingdon	Juniata			.12	.47						.16	.16		.65	.04	.08						.13	T.	.04	.14	T.		.15	.06	.11			3.43	
Hyndman	Potomac	.04		.67	.73						.02	.06	.19	.03	.97	.20	.11					.32	T.		.03		.03	T.	.03	.06			3.46	
Kylertown	W. B. Susq.			.26	1.87						.07			.42	1.12	.10	.02					.45	.07	.11	.34				.01	.01	.02		5.07	
Lakeville	Upper Del.			.35	2.01	.60									.24	1.64							.19		.06								5.13	
Lancaster	Lower Susq.				.18							.41	.87	.68	.61														.10	.80			4.52	
Lansford	Lehigh		.21	*	6.35	.06							T.		.18	1.74	1.53	.02				.08		.07		.43			T.	.10	.13		10.84	
Lawrenceville	N. Br. Susq.	.80		.53	.10									1.20	.15									T.	.05			T.	T.	.37			3.00	
Lebanon	Lower Susq.	T.		1.49	.20						.09		.34	.64	.53	.01						.01			.20		T.	.02	.07	.25			3.73	
Lewisburg	W. Br. Susq.	.04		.34	.60							.02		.40	.95	1.04	.15					.05	T.		.20		T.	.02	.07	.25			4.17	
Lock Haven	W. Br. Susq.	.08		2.25	1.25							.05		.05	.40	.76	1.11	.07				.03	.10	.02	.10	.10		.01	.03	.06	.01		6.43	
Lykens	Susquehanna	.02		.41	2.24							.05		.04	2.18	.11	.24					.30	T.	T.	.28					.04	.18		6.09	
Marcus Hook	Lower Del.		.19		T.							.28	.01	*	1.80															.23	.06		3.12	
Matamoras	Upper Del.				2.00	.31								.30	1.62	.78	1.67								.42	.16				.11			6.97	
Mauch Chunk	Lehigh			1.71	5.35									.63	1.98	1.24						.07						T.		.12			4.44	
Mifflintown	Juniata	.15		.55	2.02						.10			T.	.58	.34						.45			.13								8.74	

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Stations	Drainage Basin	Day of month																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Ohio Drainage																																		
Beaver Dam	Ohio	.07		.43	1.08								.69		.09	.05					.29				.13	.20		.22	.37	.03		.03		3.68
Beaver Falls	Beaver	.02		.55	.77				T.				.43		.63	.03					.20	.01	.01	.13	.22		.02	.31	.02	.08			3.43	
Brookville	Allegheny			.47	.45	.05									.88							.13	.12	.08	.15				.14				2.47	
Butler	Ohio			.75	.50							.06	.17		.39	.02					.71	.12	.03	.16			.39	.23		.08			3.61	
Chambersville	Allegheny			.08	1.02							.12	.22		.43	.46		.01			.49	.15	.06	.59	.02		.07	.45		.04			4.22	
Clairton	Monongahela			.22	.66							.16	.64	.30	.02					T.	.44			.02		T.	.15	.41	T.				3.02	
Claysville	Ohio			1.08	1.12					.03		.15	.11	.13	.37	.02		T.			.85	.01		.07	.03		.09	.14	.16	.02			4.38	
Clymer	Conemaugh	T.			.75							.20			.25	.20					.45	.15		.58			T.	.55	T.				3.13	
Confluence	Youghiogheny				1.05	.88					.12		.28		.10	.63		.12	T.		.32							.19	.13	.10	.12			3.72
Corry	Allegheny			2.45	1.95								.02		.30						.04	.34	.84	.40	.12				.13		.14			6.92
Coudersport	Allegheny			.30										.64	.55				.01		.09	.04	.12	.11	.01				.21				2.44	
Derry	Conemaugh			T.	1.65					.15		T.	.68	.02	.20						.16	.04		.06			.30	.21	.10	.04			3.61	
Donora	Monongahela	T.		.03	1.01	T.					.04	.01	.58		.28	.05					.65			T.	.03		.06	.06	.29	.03			3.12	
Ebensburg	Conemaugh			.04	1.55				.05			.09	.56	.25	.55	.10	.02	T.			.22	.36	.12	.05	.06			.13	.56				4.71	
Elk Lick	Youghiogheny																																	
Franklin	Allegheny			.86	.10	.17							.20		.33	.27					.90	.30	.46	.15	.08		.04	T.	.21	.05			4.12	
Greensboro	Monongahela			.15	.27								.13		.28	.98		.04			.42	T.	T.				T.	.09	.35	.10			3.81	
Greensburg	Youghiogheny			.10	1.08							.02	.80	T.	.20	.03					.25	.04		.05	T.		.48	.18	.20	.05			3.48	
Greenville	Beaver			.92								.27		T.	.72					.08	.25	.39	.18	.27		.03	.08	.20				3.31		
Grove City	do			.90								.13			.82						.51	.25	.17	.31			.02	.13			.02		3.26	
Harris Isl. Dam	Ohio	.08		.02	.22	.26							.81	.16	.05	.69	T.				.08	T.		T.	.05		.05	.08	.93	.02			3.50	
Irwin	Monongahela	T.		.10	.68								.45	.01	.10	.01	T.				.25			.03			.23	.05	.29	.05			2.25	
Johnstown	Conemaugh	T.		.30	1.05							.03	.52	T.	.28	.08	.06	T.	.12		.13	.09		.03			T.	.03	.23	.29	.12		3.36	
Kane (near) ††	Allegheny	.21		.73	.03							.04			.66	T.		.01	T.		.12	.32	.06	.25			.04	.04		.03			2.54	
Kegonsa	Youghiogheny		.05	.96	.93					.10		.85	.03	.05	.33	T.				.79	.03	.07	.01	.02			.05	.25	.16				4.68	
Lake Lynn	Monongahela			1.07	.15								.23		.23			.25			.33						.04	.32	.17				2.79	
Linesville	Beaver	.02		1.57	.12	T.							.12		.07	.37					.50	.51	.17	.11	.43		.02	.30	.14	.02			4.47	
Lock No. 2	Ohio	.03		.35	.58	T.							.80	.12	.28	.10					.14				.04	.05	.16	.28	.79	.03			3.75	
Lock No. 4	Monongahela	.06		T.	.98	.23							.50	T.	.28	.08					.37				.02		.01	.06	.40	.04			3.03	
Lock No. 5†††	Allegheny	.01		.14	.65	.60			.05				.38		.16	.16					.29	.01		.08	.26		.16	.46	.85	.04			4.30	
Lycippus	Conemaugh			.30	1.77					.19		.04	.97	T.	.65	.25					.63	.09			T.		.13	.21	.40	.08			5.71	
McKeesport	Monongahela	.09	T.		.48	.34	T.						.75	.02	.25	.03					.18		T.	.01	.20		.08	.11	.45	.01			3.00	
Meadville	Allegheny			1.06	.36							.06			.76					.02	.67	.62	.16	.56			.17	.22		.04			4.70	
Mosgrove	do	.01		.30	.90	.50							.16		.27						.31	.04	.07	.04	.07		.30	.10					3.07	
Mount Lebanon	Ohio			.26	.38							.15	.80	.19	.05	.30				.05	.24	T.		.09		.04	.06	.69	.03	.01			3.34	
Natrona	Allegheny	.02		.04	.89	.30							.44		.07	.33					.14	.01	.01	.08	.12		.04	.28	.33	.04			3.14	
New Castle	Beaver	.04	.01	.46	.16								.26		.21	.25	T.				.52	.07	.14	.13	.14		.12	.10	.05	.05	.01		2.72	
Newell	Monongahela	.22	.50	1.20	.03							.23	.68	.31							.67						.35		.08				4.27	
Parkers Landing	Allegheny	T.		.98	.16	.82							.14		.13	.14					.52	.05	.18	.24	.03		T.	.21	.02	T.			3.62	
Pennline	Beaver	.02		.89	.60								.12		.13	.26					.38	.79	.11	.09	.45		.03	.51	.27	.02			4.67	
Pittsburgh	Ohio		T.	.10	.27							.27	.73	.09	.04	.77				.04	.02	T.	T.	.07		.04	T.	1.75	.01	T.			4.20	
Punkstutawney	Allegheny			.30	.86								.11		.10	.09					.68		.27					.23					2.64	
Ridgway	do	.04	.26		.13	.01							.04	.18		.50					.06	.09	.24	.16	.10			.12	.23	.07			2.23	
Saltsburg	Conemaugh	.02		.03	.50	.56							.57	.08	.05	.30					.13	.01		.05	.06			.04	1.48	.06			3.94	
Sharon	Beaver	.02		.48	.13								.28		.20	.40					.40	.18	.04	.22	T.		.11	.08		T.			2.52	
Smethport	Allegheny	.08		.59	.36										.57	.80					.12	.20	.18	.08	.09				.03				3.10	
Somerset	Youghiogheny	.01		.26	1.32						.06	.13	.74		.12	.04	T.				.39	.05		.01			.02	.02	.19	.20			3.56	
Springdale	Allegheny	.10		.01	.17	.80							.64	.09	.10	1.02					.12	.02	.03	.06	.05		.09	.28	.66	.04	.01		4.29	
Uniontown	Monongahela			.30	.84							.13	.04	T.	.84	.27		T.			.36						.04	.21	.06	.23			3.32	
Unity Reservoir††	Youghiogheny			.02	1.50							.04	.83		.15						.46	.04		.06	T.		.25	.17	.20	.05			3.77	
Vandergrift	Conemaugh			.50	.65								.07	.36	.03	.33	.30				.09	.06	.05		.22		.04	.56	.03				3.29	
Warren	Allegheny			2.07									.01		1.70	.10					.05	.15	.40	.04	.10	.06	.20	.23		.03			5.14	
Waynesburg	Monongahela			.21	1.11								.21	.06		.72					.78						.14	.17		.26			3.66	
Westford	Beaver			1.46	.32							.03			.80						1.10	.40	.16	.36	.32		.52	.31					5.78	
West Newton	Youghiogheny				.83	.49						T.		.70	.01	.23	.05				.72				.02	.05		T.	.03	.41			3.54	
Lake Drainage																																		
Erie***	Lake Erie			2.26	.04					T.		T.				.25	T.				.04	.35	.13		.10		T.	.28	.32	.02	.03			3.82

Daily Temperatures for September, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum.....	74	80	76	78	80	85	86	86	86	86	71	74	66	57	56	63	82	75	75	81	65	68	69	81	85	87	71	74	76	76.0		
	Minimum.....	58	55	56	68	59	59	62	59	60	67	48	52	52	55	53	52	53	56	53	55	55	55	48	51	60	63	64	59	51	42	56.0	
Altoona.....	Maximum.....	76	79	82	75	84	87	89	89	86	77	67	67	62	64	61	61	80	72	77	74	66	62	73	85	89	80	77	71	74	76.2		
	Minimum.....	52	50	63	65	55	53	57	58	70	62	44	54	53	55	57	51	57	57	50	62	54	51	45	52	57	62	59	47	49	42	54.8	
Bedford.....	Maximum.....	81	82	84	80	84	88	92	91	87	72	64	64	74	69	62	81	74	79	77	72	69	80	89	90	81	79	79	73	77	78.9		
	Minimum.....	60	55	62	62	56	50	55	63	61	64	51	58	60	61	55	54	59	55	46	62	54	56	46	52	54	64	53	58	51	44	56.0	
Bellefonte.....	Maximum.....	73	78	77	78	79	83	81	86	85	75	63	71	60	62	68	60	79	71	75	73	64	64	66	81	85	82	76	69	70	72	73.2	
	Minimum.....	56	53	68	62	54	50	56	58	70	51	42	49	49	56	52	52	58	52	50	54	53	45	42	51	46	63	59	48	46	40	53.2	
Brookville.....	Maximum.....	67	72	87	80	78	87	87	92	88	85	78	67	73	68	70	81	83	80	79	74	64	67	71	85	89	81	78	84	78	78.3		
	Minimum.....	55	44	60	62	47	43	52	54	57	47	38	40	53	56	53	53	58	45	42	40	51	51	42	54	51	57	56	59	53	33	50.2	
Butler.....	Maximum.....	78	87	87	88	87	89	89	93	83	82	89	75	82	82	71	80	88	79	78	72	72	66	72	87	90	80	73	74	71	80	80.8	
	Minimum.....	48	41	45	44	47	48	60	60	55	50	43	51	50	59	56	53	56	54	44	63	45	53	50	48	56	63	65	46	46	37	51.2	
Carlisle.....	Maximum.....	73	82	81	78	81	86	87	90	90	85	75	73	71	70	58	60	82	77	80	81	70	70	73	87	91	87	86	79	76	78	78.8	
	Minimum.....	63	54	68	68	60	56	58	62	67	67	47	57	58	58	54	54	59	54	55	60	58	57	48	57	58	63	68	61	53	44	58.2	
Catawissa.....	Maximum.....	76	85	79	80	81	87	85	89	85	78	77	77	68	68	60	60	79	75	77	78	73	67	69	85	89	88	84	80	75	77	77.5	
	Minimum.....	60	55	68	67	59	54	60	58	69	62	42	52	46	53	53	52	58	50	48	62	56	52	45	58	59	64	63	53	49	45	55.7	
Chambersburg.....	Maximum.....	81	83	84	82	84	83	90	91	91	84	74	67	64	61	59	61	85	80	81	82	73	63	78	88	92	89	86	81	77	79	79.1	
	Minimum.....	61	57	66	60	59	54	58	64	67	68	51	57	59	57	52	52	55	56	53	63	58	55	46	57	58	63	62	61	55	46	57.7	
Chambersville.....	Maximum.....	79	87	80	77	84	86	88	90	89	82	67	76	73	78	68	74	83	75	80	74	63	67	76	85	88	83	78	75	73	80	78.6	
	Minimum.....	56	53	65	64	58	56	56	62	65	60	42	52	57	59	53	53	57	56	43	60	50	51	46	48	55	63	62	44	45	41	54.0	
Claysville.....	Maximum.....	83	90	87	83	88	91	92	95	92	83	77	70	83	79	72	86	84	80	86	75	75	74	75	89	90	89	81	72	75	83	82.6	
	Minimum.....	57	51	66	65	53	54	60	63	67	63	53	55	59	67	59	56	60	54	45	63	52	53	60	51	53	65	67	46	46	44	56.9	
Clearfield.....	Maximum.....	77	85	82	77	81	84	87	91	87	78	70	77	68	60	59	66	82	72	78	74	69	66	75	84	88	82	77	80	73	70	76.6	
	Minimum.....	58	52	64	67	52	59	52	57	63	60	60	43	47	53	52	52	50	46	45	60	51	44	52	46	60	55	51	41	47	50	53.0	
Coatesville.....	Maximum.....	79	82	85	80	80	86	87	89	90	78	76	71	67	64	58	63	81	77	76	83	68	70	75	83	89	86	89	77	74	78	78.0	
	Minimum.....	62	62	66	66	64	59	61	64	70	67	51	57	55	54	53	58	55	52	63	55	55	49	58	61	64	64	61	55	48	48	58.9	
Corry.....	Maximum.....	75	79	88	81	84	82	87	91	82	79	67	73	70	62	64	82	84	70	70	63	61	68	72	86	88	77	72	65	63	72	75.2	
	Minimum.....	51	45	52	66	56	47	58	60	64	51	39	32	41	52	53	52	58	50	43	51	50	43	46	54	57	60	60	41	44	38	60.5	
Coudersport.....	Maximum.....	72	79	76	70	82	86	80	87	87	78	70	69	69	58	56	65	75	73	71	68	64	60	62	78	80	79	73	70	67	73	72.6	
	Minimum.....	55	46	60	58	46	46	57	61	58	57	35	37	33	52	50	51	59	43	40	50	49	48	39	54	55	55	60	37	43	33	48.9	
Emporium.....	Maximum.....	70	78	75	79	78	82	82	86	81	73	65	70	58	60	59	69	77	69	74	72	63	63	60	79	81	80	76	68	67	72	72.2	
	Minimum.....	60	53	64	67	53	54	59	58	62	58	43	44	36	56	55	55	55	44	46	58	54	53	48	58	61	60	60	43	50	39	53.6	
Erie.....	Maximum.....	73	80	75	81	83	88	77	90	80	73	67	65	71	61	67	73	80	70	76	69	64	67	70	82	89	80	76	70	66	78	74.7	
	Minimum.....	53	60	67	65	60	70	68	68	71	61	53	50	53	55	56	59	66	62	56	55	55	56	58	63	66	67	54	49	52	51	59.3	
Franklin.....	Maximum.....	81	91	76	85	81	89	95	96	89	78	60	80	70	61	65	86	85	73	80	74	60	76	75	89	90	80	75	75	75	79	79.0	
	Minimum.....	50	49	52	67	50	51	53	58	61	60	39	41	44	51	54	54	56	55	44	45	51	48	52	58	59	65	50	49	50	70	70.4	
Freeland.....	Maximum.....	69	77	70	73	75	80	78	81	79	73	63	65	64	59	52	61	60	68	68	75	62	60	63	74	80	81	83	72	67	70	75.2	
	Minimum.....	56	56	63	65	56	61	66	60	68	58	44	46	48	51	48	48	55	53	49	60	50	49	47	56	63	66	65	50	49	50	78.7	
Gettysburg.....	Maximum.....	81	80	85	79	82	87	88	89	88	84	76	67	67	64	60	60	82	84	70	81	82	73	68	77	86	89	87	87	81	75	78	78.7
	Minimum.....	63	60	69	71	64	56	60	66	70	69	55	58	60	59	54	53	58	59	54	63	58	56	47	57	61	64	62	62	67	48	48	79.5
Greensburg.....	Maximum.....	76	90	87	78	84	87	89	91	88	80	71	70	77	80	73	81	81	75	79	74	68	73	76	86	80	86	77	72	73	82	78.2	
	Minimum.....	57	54	68	64	55	55	60	65	65	64	52	56	59	64	59	55	61	55	48	63	51	54	52	52	59	65	66	54	51	45	57.6	
Grove City.....	Maximum.....	80	85	83	77	84	87	88	92	87	82	72	67	62	67	62	78	74	76	73	62	69	67	83	86	81	76	70	69	78	78	77.2	
	Minimum.....	48	55	49	59	53	57	66	66	72	63	47	48	52	56	54	57	61	67	48	60	54	51	55	55	62	63	61	42	48	52	56.0	
Hamburg.....	Maximum.....	72	75	80	79	81	85	84	86	84	80	76	73	66	65	62	78	71	77	75	71	74	70	84	89	89	87	83	76	76	76	77.8	
	Minimum.....	49	53	54	58	53	54	57	61	60	50	45	51	53	54	55	47	50	47	44	46	50	45	54	61	62	63	61	42	48	52	52.6	
Harrisburg.....	Maximum.....	77	80	78	79	81	86	86	88	88	79	71	72	65	60	58	62	82	75	78	79	66	66	73	84	88	86	84	74	49	46	76.5	
	Minimum.....	63	57	70	70	65	61	64	65	71	67	54	58	59	55	53	53	59	62	58	64	59	56	52	57	63	66	67	62	58	50	60.6	
Hawley.....	Maximum.....	76	82	72	78	78	83	82	84	81	72	68	69	74	63	53	56	79	71	70	76	68	62	66	77	81	78	86	74	72	73	73.0	
	Minimum.....	56	48	58	65	49	48	59	52	65	58	40	40	34	51	50	48	55	48	46	55	52	52	39	53	53	55	58	50	48	38	50.8	
Huntingdon.....	Maximum.....	79	80	84	79																												



CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

G. S. BLISS.

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No. 10.

GENERAL SUMMARY.

The average temperature for the month was slightly below the normal with no new records for extremes. The maximum of 90° for the State has been equalled or exceeded in 21 of the last 45 Octobers. The minimum of 11° has been equalled or exceeded only three times. Killing frosts covered fully three-fourths of the State on the 14th, which is about the usual condition. The coldest period of the month centered about the 26th, and ended the crop season wherever growing vegetation remained. The rainfall was light in all parts of the State with the greatest deficiencies in a few southwestern counties. Accumulated departures from normal precipitation from January to October inclusive show a deficiency of about nine inches at Erie, and an excess of more than thirteen inches at Philadelphia. Weather conditions were especially favorable for field work, which made excellent progress. Corn cutting was practically finished by the 10th, and husking was under way. Cutting was rather slow by reason of the lodged condition occasioned by the August storm. The grain matured better than expected although considerable soft and moldy corn was reported in the southeastern portion of the State. The losses of fodder were heavy. Silage corn was not far enough advanced to be seriously damaged by the August storm, and the yields were heavy, making up to a large extent for the loss of fodder in the main crop. Potato digging continued throughout the month, and yields were generally better than anticipated, especially in Lehigh and Potter counties. Buckwheat was threshed during the month, and yields exceeded earlier estimates. The crop had suffered much from drought at about the time the grain was filling, and after it was harvested it was damaged by heavy rains while in the field. The outlook was anything but promising, yet yields were mostly fair. Tobacco suffered a greater loss in quality than in yield. Some fields were practically ruined by the August storm, but in general there was a fair yield of tobacco of the filler quality, while there was very little suitable for wrappers. Late apples and pears were gathered during the month. Apples were light in yield and poor in quality, being generally undersized and unusually wormy. Pears turned out a little better than early estimates indicated. Fall seeding was finished early in the month, and the grains came up to good stands, and made a good growth. The top soil was deficient in moisture at the close of the month, and the water supply was getting low in many places.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 89 stations, was 51.6°, a deficiency of 0.8° as compared

with the October normal. The highest monthly mean was 59.4°, at Marcus Hook, and the lowest, 41.8°, at Gouldsboro. Extremes for the month ranged from a maximum of 90°, at Phoenixville on the 1st, to a minimum of 11°, at Wellsboro on the 26th. The greatest daily range of temperature was 48° at Claysville and Uniontown on the 15th.

PRECIPITATION.

The average precipitation for the State, as determined by the reports of 146 well-distributed stations, was 1.91 inches, which is 1.35 inches below the normal for the month. The greatest monthly amount was 3.80 inches, at Freeland, while the least, 0.33 inch, was reported from Irwin. The greatest amount reported in any 24 consecutive hours was 1.94 inches, at Pottsville on the 17th. The average snowfall for the State was a trace, which is 0.2 inch less than the normal for October. The greatest amount of snow for the month was 1.2 inches reported at Erie, which amount fell on the 18th. Several stations reported traces on the 18th, 25th and 26th.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	of inch or more prec.	Clear	Partly cloudy	Cloudy
1888.....	46.3	-6.1	74	19	4.02	+0.76	9.18	2.04	T	16	9	6	16
1889.....	47.3	-5.1	83	13	3.85	+0.59	8.61	1.88	0.2	10	8	9	14
1890.....	50.9	-1.5	81	21	5.87	+2.61	8.41	4.03	0.3	15	6	8	17
1891.....	50.6	-1.8	91	15	3.06	-0.20	4.46	0.84	T	8	11	9	11
1892.....	50.8	-1.6	83	16	0.72	-2.54	2.93	0.00	T	6	13	11	7
1893.....	53.0	+0.6	91	17	3.26	0.00	6.58	1.18	T	8	14	8	9
1894.....	53.6	+1.2	88	24	4.26	+1.00	7.66	0.65	T	9	12	8	11
1895.....	47.3	-5.1	76	17	1.99	-1.27	4.63	0.45	0.3	5	17	8	6
1896.....	48.9	-3.5	86	18	3.19	-0.07	5.70	0.94	T	9	11	8	12
1897.....	54.2	+1.8	95	16	1.32	-1.94	5.93	T	T	5	14	8	9
1898.....	53.8	+1.4	92	20	5.20	+1.94	8.62	2.36	T	12	11	7	13
1899.....	54.6	+2.2	94	15	1.55	-1.71	3.81	0.53	0	6	13	8	10
1900.....	58.6	+6.2	95	19	2.74	-0.52	5.10	0.80	0	8	11	9	11
1901.....	52.2	-0.2	83	20	1.23	-2.03	3.35	0.23	T	5	16	10	5
1902.....	53.1	+0.7	89	19	4.64	+1.38	8.12	1.65	0.1	9	12	9	10
1903.....	53.4	+1.0	91	20	4.64	+1.38	10.53	2.07	0.1	9	12	8	11
1904.....	50.6	-1.8	91	12	2.87	-0.39	7.11	1.26	T	7	15	8	8
1905.....	53.2	+0.8	90	16	4.23	+0.97	7.06	2.18	T	9	14	7	10
1906.....	52.0	-0.4	87	14	4.46	+1.20	8.39	1.97	1.1	14	7	7	17
1907.....	48.2	-4.2	87	13	3.16	-0.10	5.64	1.01	T	7	16	8	7
1908.....	54.6	+2.2	93	19	1.95	-1.31	5.48	0.08	T	6	16	7	8
1909.....	48.4	-4.0	87	15	2.27	-0.99	4.60	0.70	T	7	13	7	11
1910.....	55.6	+3.2	91	14	1.91	-1.35	5.23	0.62	0.5	7	16	8	7
1911.....	52.3	-0.1	83	18	4.83	+1.57	9.23	2.59	T	11	11	7	13
1912.....	54.2	+1.8	90	23	2.74	-0.52	5.27	0.90	T	7	15	7	9
1913.....	54.9	+2.5	88	16	5.44	+2.18	9.62	3.15	0.2	13	10	6	15
1914.....	56.4	+4.0	91	11	2.35	-0.91	4.37	0.89	T	9	11	9	11
1915.....	54.2	+1.8	85	17	2.65	-0.61	5.33	1.00	T	8	15	7	9
1916.....	52.1	-0.3	92	16	2.25	-1.01	4.45	0.76	T	6	18	7	6
1917.....	47.2	-5.2	84	12	6.38	+3.12	9.80	3.33	1.7	13	10	10	11
1918.....	55.5	+3.1	85	19	3.17	-0.09	5.75	0.44	0	10	15	8	8
1919.....	57.5	+5.1	92	21	4.77	+1.51	8.04	2.28	0	17	9	8	14
1920.....	57.5	+5.1	88	22	1.67	-1.59	4.67	0.50	T	5	19	7	5
1921.....	52.6	+0.2	84	18	2.16	-1.10	6.55	0.40	0	8	17	7	7
1922.....	54.8	+2.4	94	12	2.51	-0.75	5.60	0.65	T	7	18	6	7
1923.....	51.0	-1.4	87	12	2.38	-0.88	6.01	0.90	T	8	15	8	8
1924.....	52.9	+0.5	87	14	0.28	-2.98	2.30	0.00	0	2	21	7	3
1925.....	46.1	-6.3	83	9	4.83	+1.57	8.90	2.02	3.8	15	6	8	17
1926.....	51.9	-0.5	90	16	4.51	+1.25	7.98	2.56	0.2	14	10	9	12
1927.....	55.6	+3.2	99	21	6.40	+3.14	11.91	1.58	0.1	9	17	5	9
1928.....	55.1	+2.7	91	15	1.78	-1.48	5.24	0.43	0.1	8	14	8	9
1929.....	50.6	-1.8	85	14	5.59	+2.33	10.40	1.65	T	9	12	8	11
1930.....	50.8	-1.6	93	9	0.99	-2.27	3.33	0.11	0.2	6	15	7	9
1931.....	55.7	+3.3	93	20	1.83	-1.43	4.30	0.20	T	9	15	8	8
1932.....	53.8	+1.4	86	20	5.31	+2.05	11.90	1.78	T	11	10	7	14
1933.....	51.6	-0.8	90	11	1.91	-1.35	3.80	0.33	T	8	16	9	6
Period.....	52.4	.....	99	9	3.26	.....	11.91	0.00	0.2	9	13	8	10

Climatological Data for October, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	21	51.4	-1.6	80	1	25	26	40	1.96	-1.38	0.98	0	6	25	2	4	s.	John A. Frick.
Altoona	Blair	1,615	46	50.2	-1.9	79	1†	18	26	35	1.21	-1.46	0.58	0	7	26	3	2	w	F. E. Rooney.
Ardmore	Montgomery	350	1	55.0	-0.2	81	1	26	26	32	1.99	-0.93	1.27	0	5					H. G. Balderston.
Bedford	Bedford	1,060	1	51.6		85	1	20	26	43	1.71		0.52	T.	10	17	8	6	nw.	Charles C. Lee.
Bellefonte	Center	1,050	25	47.8	-5.2	76	1	19	26	36	2.03	-1.00	0.82	T.	8	11	12	8		U. S. Weather Bureau.
Bethlehem	Northampton	364	48	55.0	-0.7	82	1	28	26†	38	2.32	-0.89	1.02	0	7	19	5	7	w.	Lehigh University.
Carlisle	Cumberland	467	67	53.4	+0.6	86	1	22	26	42	2.76	-0.47	1.04	0	8	23	4	4	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	37	51.8	-1.6	83	1	23	26	41	2.84	-0.26	1.01	0	6	20	5	6		W. L. Gearhart.
Center Hill	Center	1,272	37	48.8	-3.1	76	31	20	26	36	2.20	-0.72	0.75	0	6	17	5	9		S. W. Smith.
Chambersburg	Franklin	580	34	52.5	-0.4	87	1	23	26	39	2.51	-0.69	1.35	0	7	14	13	4	sw.	William B. Spear.
Clearfield	Clearfield	1,120	26	50.0	-2.6	77	2†	20	26	46	2.21	-1.03	0.56	T.	9	16	13	2	nw.	E. W. Hess.
Coatesville	Chester	380	46	53.4	-0.7	79	1	26	26	35	1.91	-1.50	1.07	0	5	21	2	8	n.	Howard L. Pyle.
Colebrook	Lebanon	560	22	50.2	-2.5	80	1	22	26	37	2.57	-0.71	1.50	0	10	21	9	1	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	46	48.3	-1.7	75	31	18	26	40	2.24	-1.01	0.60	T.	6	14	6	11	e.	T. B. Lloyd.
Ephrata	Lancaster	380	41	54.2	-0.4	85	1	26	26	39	2.14	-0.94	0.86	0	7	20	6	5	s.	Ira J. Keath.
Freeland	Luzerne	1,970	40	49.0	+2.0	75	31	18	26	34	3.80	-0.07	1.70	T.	10	13	9	9	nw.	Theo. Reichmann.
George School	Bucks	190	27	54.8	-0.2	82	1	26	26	42	1.60	-1.54	0.91	0	6	23	4	4	s.	Prof. N. W. Swayne.
Gettysburg	Adams	553	60	54.1	+1.1	85	1	24	26	34	2.30	-0.91	1.04	0	10	20	6	5	s.	Dr. Henry Stewart.
Gordon	Schuylkill	840	29	47.6	-3.1	78	1	18	26	42	2.53	-1.66	1.35	T.	7	17	12	2	w.	Sallie M. Johnson.
Gouldsboro	Wayne	1,875	18	41.8		60	22	19	29	29	3.25	-0.58	1.72	0	5	16	7	8	w.	Gustav Holtz.
Hamburg	Berks	535	40	53.7	+0.3	80	1	25	26	42	2.28	-1.51	1.37	0	7	19	11	1	w.	State Sanatorium.
Hanover	York	600	29	55.6	+0.2	87	1	27	26	36	2.81	-0.06	0.98	0	8	22	4	5	s.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	64	53.8	-1.0	83	1	30	26	34	2.25	-0.68	1.16	0	9	15	10	6	n.	U. S. Weather Bureau.
Hawley	Wayne	900	15	48.0	-1.6	77	1	20	29	41	3.47	+0.19	1.25	T.	7	20	7	4	w.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	18	54.8	-1.4	78	1	34	26	27	1.11	-1.37	0.46	0	6	18	5	8		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	46	51.4	-1.3	80	1	19	26	43	1.58	-1.41	0.55	T.	8	16	9	6	nw.	Prof. Paul R. Yoder.
Hyndman	Bedford	977	21	53.0	-0.2	88	1	21	26	45	1.54	-1.68	0.74	0	7	16	6	9		Horace A. Sheavly.
Kylertown	Clearfield	1,637	3	47.7		75	1	14	26	42	1.60		0.51	T.	7	16	13	2	se.	Bureau of Plant Industry.
Lancaster	Lancaster	255	46	49.6	-4.2	76	1†	21	26	37	2.16	-0.95	1.00	0	5	22	6	3	nw.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	36	50.1	-0.4	80	1	20	26	45	2.04	-0.74	0.52	T.	8	15	9	7		C. P. Darling.
Lebanon	Lebanon	469	49	52.6	-1.1	85	1	24	26	36	2.52	-0.96	1.40	0	8	22	8	1	sw.	Lebanon Valley Gas Co.
Lewisburg	Union	450	57	51.8	0.0	78	31	24	26	40	2.28	-0.97	0.87	0	8	10	12	9	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	43	52.4	-1.1	75	1†	23	26	34	2.00	-1.14	0.76	0	7	10	17	4	sw.	Joseph Beaver.
Lykens	Dauphin	680	18	50.6	-2.7	81	1	21	29	44	2.97	-0.72	1.40	0	8	19	10	2	sw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	6	59.4		85	1	29	26	37	1.33		0.90	0	4	23	3	5	sw.	Sun Oil Co.
Mauch Chunk	Carbon	600	44	48.5	-3.9	79	31	26	26†	43	2.87	-0.92	1.57	0	5	18	5	8	s.	R. K. Wintermute.
Millintown	Juniata	445	29	53.0	+0.1	83	1	22	26	45	2.05	-1.15	0.84	0	7	20	5	6	w.	W. H. Manbeck Co.
Montrose	Susquehanna	1,658	29	47.9	-1.1	72	31	20	26	35	2.95	-0.62	0.80	0	7	15	10	6	nw.	Silas Jagger.
Mt. Pocono	Monroe	1,720	27	49.0	-0.6	70	1†	16	25	40	2.57	-2.29	1.42	0.5	7	22	3	6	sw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	21	47.9	-2.4	75	7	18	26	40	2.98	-0.55	0.89	T.	8	19	9	3	nw.	H. O. Hacker.
Neshaminy Falls	Bucks	60	44	53.3	-0.6	81	1	27	27	42	1.45	-1.71	0.68	0	6	18	7	6	n.	Philadelphia Sub. Water Co.
Palmerton	Carbon	398	15	50.0		77	1†	24	26	40	2.10	-1.04	1.23	0	6	20	4	7	n.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	62	57.8	0.0	81	1	32	26	26	1.39	-1.42	0.84	0	5	18	5	8	n.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	9	57.4		82	1	30	26	29	1.98		1.27	0	5	16	10	5		Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	17	56.4	-0.7	82	1	31	25	29	1.55	-1.09	0.95	0	9	11	12	8	w.	Commandant, Navy Yard.
Phoenixville	Chester	100	23	56.3	+1.9	90	1	26	26†	44	1.90	-1.27	1.00	0	5	14	13	4	w.	Philadelphia Sub. Water Co.
Quakertown	Bucks	496	48	51.0	-1.2	78	1	25	26†	41	2.25	-1.09	1.14	0	6	14	13	4	n.	John E. Benner.
Reading	Berks	514	63	55.2	+0.5	83	1	29	26	32	1.55	-1.57	0.70	0	6	14	11	6	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	39	50.9	-1.0	75	1	27	29	35	2.80	-0.23	1.14	T.	6	9	16	6	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	43	52.0	-0.8	81	1	24	26	37	2.43	-1.10	0.92	0	12	14	10	7	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	37	56.2	+0.1	81	1†	28	26	34	1.75	-1.41	1.16	0	5	12	11	8	w.	W. S. Guiles.
Shippensburg	Cumberland	660		53.4		83	1	24	26	34	3.35		1.35	0	13	15	4	12	nw.	State Teachers College.
State College	Center	1,217	49	50.4	-0.7	79	1	20	26	37	1.92	-0.99	0.72	0	8	15	10	6	w.	C. A. Kern.
Stroudsburg	Monroe	500	19	47.4	-4.8	78	1	22	26†	43	2.52	-1.19	0.70	0	8	10	8	13	nw.	State Normal School.
Towanda	Bradford	754	39	49.4	-1.4	78	31	22	29	43	2.06	-0.87	0.55	T.	11	11	6	14	sw.	Mrs. M. Ordell Parks.
Wellsboro	Tioga	1,419	63	47.2	-1.7	76	1†	11	26	47	1.80	-1.28	1.19	T.	4	19	8	4	sw.	George W. Hill.
West Chester	Chester	455	84	54.5	-0.1	78	1	28	26	30	2.14	-1.50	1.48	0	5	19	8	4	w.	Joseph W. Belt.
Williamsport	Lycoming	521	47	51.2	-1.5	78	31	23	26	42	1.72	-1.68	0.61	0	8	13	6	12	nw.	Miss Veronica E. April.
York	York	400	45	53.4	-0.6	86	1	24	26	38	2.07	-0.94	0.80	0	8	21	6	4	se.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	41	54.4	-0.8	84	21	25	26	40	0.93	-1.57	0.41	T.	8	13	5	13	sw.	U. S. Engineer.
Brookville	Jefferson	1,173	43	49.8	+1.1	80	2	15	26	47	1.72	-1.26	0.41	T.	7	15	11	5		John Fawcett.
Butler	Butler	1,077	20	51.2		78	21†	17	26	47	0.67	-2.48	0.24	T.	6	15	11	5	nw.	William C. Faust.
Chambersville	Indiana	1,047	3	51.6	-0.9	76	1	16	26	45	1.48	-2.01	0.37	T.	10	14	3	14	w.	John E. Lewis.
Clairton	Allegheny																			

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Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh		.50							T.				.05				.47	.51		T.				.10	T.	.33					T.		1.96
Altoona	Juniata	.05				.25												.58	.12					.12	.04	.05							1.21	
Ansonia|||	W. Br. Susq.		.06			.25	.08			T.								.63		.09				.33		.36							1.80	
Ardmore	Lower Del.	.12				T.				T.				.28				1.27						.02	.30								1.93	
Baker's Summit	Juniata	.01				.06			.10									.66	.04					.03	.32								1.22	
Bedford	Juniata	.39				.42			.07	.01		.03						.52	T.	.01	T.			.05	.17	.04							1.71	
Belleville***	W. Br. Susq.	T.				.56			.11	T.							.02	.80	.09	T.			.06	.10	.29	T.							2.03	
Bethlehem	Lehigh		.45						.38				.07					1.02	T.					.08	.26	.06						T.	2.32	
Bloersville|||	Lower Susq.	.38						.07	.06				.03					1.70		.04	.03		.03	.68	.15								3.17	
Buffalo Mills	Juniata		.70						.05									.55						.23									1.53	
Carlisle	Lower Susq.	T.	.91			.36				T.	.04			.08				1.04	T.	.01	T.			.22	.10							T.	2.76	
Catawissa|||	N. Br. Susq.		.30			.24			.38									1.01	T.				T.	.58	.33								2.84	
Center Hall	Susquehanna					.75			.06									.28	.23					.50	.38								2.20	
Chambersburg	Potomac		.57			.38					.07			.06				1.35	.03	T.				.20	.25	.15							2.51	
Clearfield	W. Br. Susq.	T.				.45				.07	.17							.56	.06		T.			.30									2.21	
Coatesville	Lower Del.		.30										.17					1.07						.06	.31								1.91	
Colebrook	Lower Susq.	.54				.05							.13					1.50	.06		.05			.02	.02	.16	.04						2.57	
Conshohocken	Schuylkill																																1.17	
Cresson|||	Juniata	.19				.17			.09									.62	.10														1.81	
Doylestown	Lower Del.		.11										.31					1.02	T.					.07	.30								2.24	
Emporium	W. Br. Susq.	T.				.42			.24									.60	.09	T.			.33		.56	T.							2.14	
Ephrata	Lower Susq.		.86										.23					.78	.04					.09	.13	.01							3.26	
Forest City	N. Br. Susq.								.38									.80	.49		.12			.65		.82							3.80	
Freeland|||	Lehigh		.45			.50		.01			.09	.01		T.				1.70	.09	T.	.01		.01	.88	.55						T.	2.16		
Galeton	W. Br. Susq.	.04				.50			.01					.24				.81	.10	T.	.04			.26		.40							1.60	
George School	Lower Del.	T.	.11		T.	.09	T.	T.	T.					.24				.91	T.	T.			T.	.03	.22	T.		T.	T.				2.30	
Gettysburg	Potomac	.49	.02			.27	.01			T.		.04		.28				1.04	T.					.02	.07	.06								
Girardville|||	Lower Susq.	.84				.06												.58	.95				.54		.29								3.26	
Gordon	Lower Susq.	.42				.04					.02			.05				1.35	T.		T.			.40	.25	T.					T.		2.53	
Gouldsboro|||	Lehigh		.13							.15								1.72						.45		.80							3.25	
Graterford	Schuylkill		.41											.04				1.21						.02	.32	.09							2.09	
Hamburg	Schuylkill	.45						.06						.07				1.37			.02				.30	.01							2.28	
Hanover	Lower Susq.		.98			.25			.05					.34				.96					T.	.06	.14	.03							2.81	
Harrisburg***	Lower Susq.	.60				.13			.03	.02			T.	.05				1.16	.01		T.			.09	.16								2.25	
Hawley|||	Upper Del.		.07						.20									.82	.43														3.47	
Hollisterville	Upper Del.	T.				T.			.22									.95	.35		T.		1.00		.74	.03					T.	3.29		
Holtwood|||	Lower Susq.					T.							.26					.46	.23				.03	.02	.11								1.11	
Huntingdon	Juniata	.02				.55			.20									.51	.03					.17	.08	.02							1.58	
Hyndman	Potomac	.33							.13					T.				.74					.16	.13	.04								1.54	
Kylertown	W. B. Susq.					.41			.05									.51	.08				.04	.31	.20	T.							1.60	
Lakeville|||	Upper Del.		.06						.26									1.10	.41					.98	T.	.75							3.56	
Lancaster	Lower Susq.		1.00											.24				.75						.05	.12								2.16	
Lansford|||	Lehigh		.62				.01			T.				T.				1.50	.22					.29		.33							2.97	
Lawrenceville	N. Br. Susq.	.12						.05										.52	.05				.28	.42	.50	.10							2.04	
Lebanon	Lower Susq.	.78				T.						.08					1.40		.02	.01		.02	.06	T.	.15								2.52	
Lewisburg	W. Br. Susq.	T.				.11			.01	.04								.81				.02		.87	.32	.10							2.28	
Lock Haven	W. Br. Susq.	.06				.48			.05					.02				.76						.37	.18	.10							2.00	
Lykens	Susquehanna		.74			T.			.16	.08	T.							1.40							.43	.11	.03							2.97
Marcus Hook	Lower Del.		T.											.20				.90							.23								1.33	
Matamoras	Upper Del.		.09						.17									1.10	1.46					.46		.87							2.98	
Mauch Chunk	Lehigh	.60							.17					T.				1.57						.15	.38								2.87	
Mifflintown	Juniata	T.				.42								T.				.84				T.		.36	.14	.07							2.05	
Monroeville	N. Br. Susq.								.35									.80	.10		.10			.80	.35	.45							2.95	
Morris Run	N. Br. Susq.	.11				.17												.82	.02	.02			.18	.33	.20	.44							2.29	
Mount Pocono	Upper Del.	.14							.16									1.42					.45	.06	.19	.15							2.57	
Muncy Valley	W. Br. Susq.	.06				.08			.19					.02	.23			.89	T.		.02			.89	.68	.17							2.98	
Neshaminy	Lower Del.	.12	T.			.13																												

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Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage																																	
Beaver Dam|||	Ohio	.02							.26									.15	.02	.02			.11	.30		.05							0.93
Beaver Falls|||	Beaver	T.	.02			.02			.23	T.								.22	.03	.02	.03		.06	.26		.03	T.						0.92
Brookville	Allegheny			.34			.11	.12	T.									.41		.16			.31		.27	T.							1.72
Butler	Ohio	.03			.05			.18										.24	.13				.04		T.								0.67
Chambersville	Allegheny	.01			.32			.13	.24									.34	.11		.03		.01		.24	.05							1.48
Clairton†	Monongahela	.02			.03			.05									.24		.06				.02	.01	.01								0.44
Claysville	Ohio				.02			.25		.01		T.	T.				T.	.25					.11	.10	.01	.02							0.77
Clymer||	Conemaugh			.30				.21										.42			.20			.22	.08								1.43
Confluence|||	Youghiogheny		.38					.19					.13					.52	T.					.15									1.37
Corry	Allegheny	.09			.19				.10	.15			.02					1.34			.08		.29		.31	.39							2.96
Coudersport	Allegheny																																
Derry	Conemaugh	.21						.12		.03								.45	.05				T.	.15	.03								1.04
Donora|||	Monongahela		T.		.01			.01	.04	.01								.19	.01				T.	.16	T.								0.43
Ebensburg	Conemaugh	.21			.08			.43										.38	.12					.21	.07								1.50
Elk Lick	Youghiogheny	.51						.26					.20			.01		.62							.31								1.91
Franklin|||	Allegheny	.09			.09			.17	.03									.54		.14	.06		.35	.32		.18							1.97
Greensboro	Monongahela	.39						.02	T.	.01			.09					.36		T.			.28		.02								1.17
Greensburg	Youghiogheny	T.			.01			.04		.05								.37	.11		.02			.19	T.								0.79
Greenville	Beaver	.05			.22			.10		.05			.02				.25		.12	.02			.75		.13	T.							1.66
Grove City	do			.04				.01	.17									.45	.04	T.	.03		.74	.09	.05	.01							1.63
Herr's Isl. Dam|||	Ohio	.05			T.			.02		.02								.22	.03	.10	T.		.14	T.	.06								0.62
Irwin	Monongahela							.02									T.	.16	.05				T.	.07	.03	T.							0.33
Johnstown	Conemaugh	T.			.22			.18										.42		.10	.03			.22	.04	T.							1.21
Kane (near) ††	Allegheny	.08			.22	.12	.25	T.										.32	.19	.02	.02		.47	.12	.09	.13							2.03
Kregar|||	Youghiogheny	.06			.01			.17	.02	.04			.02				.52		T.		T.		.25	.05	.02								1.16
Lake Lynn|||	Monongahela		.32					.02			.02			.12				.45	T.	.02			.20	.02									1.17
Linesville|||	Beaver		.01		.23	.12			.16	.02	.01		.01	.03				.20	.11	.23	.02		.42	.08		.23							1.88
Lock No. 2|||	Ohio	T.			T.			.22										.19	.06	.08	.01		.20										0.76
Lock No. 4|||	Monongahela							.02	.07	.02				T.				.19		.02	T.			.15	.01	T.							0.48
Lock No. 5††|||	Allegheny	T.			.03			.07	T.									.44	T.	.10	T.		.01	.25	.02								0.92
Lycippus	Conemaugh	.05						.08		T.			T.					.44	.04					T.		.02							0.61
McKeesport|||	Monongahela				.03			T.	.02	T.								.23	T.	.04	.02		T.	.11	.01	.04							0.50
Meadville	Allegheny	.11			.22			.01	.11				.09					.32	.42	.03	.03		.26		.12	.22							1.82
Mosgrove	do		.05		.01			.01	.11									.42		.08	.08		.24		.05								1.05
Mount Lebanon	Ohio	T.						.08	T.				T.				.15	.14	.20	.02	.02		.15	.02	T.	.02							0.80
Natrona|||	Allegheny		T.		.06			.09										.35	.02	.14	.01		.24										0.91
New Castle|||	Beaver	.03	.02		.04	.02		.19	.03	T.				.01	T.			.34	.01	T.	.02	T.	.40	.33	.01	.03							1.48
Newell	Monongahela	.06						.05	.15	.10								.24		.40				.09	.02	.02							1.13
Parkers Landing|||	Allegheny	T.	T.		T.			.24										.49	T.	T.			T.	.41		.06							1.20
Pennline|||††	Beaver	.02			.13	.05			.04	.04	.05			.09				.33	.26	.24	.01		.35	.14		.22							1.97
Pittsburgh**	Ohio	.03			T.		T.	.01	T.				T.				.16		.09	T.			.15	.02	T.	T.							0.46
Punxsutawney|||	Allegheny				.18			T.	.61									.54					.09	.39		.22	T.						2.03
Ridgway	do	.06			.38			.06	.33	T.								.30		.14	.11		.02	.41		.23	T.						2.04
Saltsburg|||	Conemaugh				.01			.01	.14									.32		.11	.01		.17		.02								0.79
Sharon|||	Beaver		T.		.03	T.		.16							T.			.28		T.	.02		.24	.18		.05							0.96
Smethport	Allegheny	.06			.34			.02	.15									.29		.10	.25	T.	.29										1.50
Somerset	Youghiogheny	.05						.40					T.	T.				.58			.03		.08	.07									1.21
Springdale|||	Allegheny		.06		.01			.01	.05									.35	.09	.05	.05			.23	.01								0.91
Uniontown	Monongahela	T.						.04	T.	.05		.01	.06					.52	T.				.01	.23	T.								0.92
Unity Reservoir††	Youghiogheny	T.			.02			.10		.10								.50	.08				T.	.20									1.00
Vandergrift†	Conemaugh				T.			.22									.34	.03	.17	.01			.40		T.								1.17
Warren	Allegheny	.06		.03				.02	.22	.02								.36	.08	.24	.05		.30	.11	.04	.37							1.90
Waynesburg	Monongahela							.21										.41						.21									0.83
Westford|||	Beaver	.26			.50	.12		.02		.16							.42		.31	.02		.43	.16		.14								2.54
West Newton|||	Youghiogheny				T.			T.	.10	.03								.12		T.				.11	.02								0.38
Lake Drainage																																	
Erie***	Lake Erie	.07			.31			.11	.07	.28				.08			.14	.04	.67	T.		T.	.28		.21			.05		T.			2.31

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * Included in next measurement.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox; of Lock No. 5, Schenley. † Mdt. to mdt.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations	Atmospheric pressure (reduced to sea level)					† Wind				Relative humidity			
	Mean	Highest.	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of sunshine
Erie.....	30.09	30.44	2	29.61	7	13.1	36	s.	16	70	62	69	44
Harrisburg.....	30.13	30.55	21	29.59	8	6.4	21	nw.	25	76	53	64	68
Philadelphia.....	30.14	30.58	21	29.58	7	12.1	39	nw.	25	72	54	62	72
Pittsburgh.....	30.14	30.44	3	29.64	7	9.7	35	nw.	24	79	52	53	50
Reading.....	30.14	30.55	21	29.58	7	9.6	37	nw.	25	72	53	62	60
Scranton.....	30.13	30.57	21	29.60	7	6.6	25	nw.	25	83	54	66	55

Daily Temperatures for October, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	80	67	66	62	74	73	73	69	63	65	75	58	58	66	68	64	56	56	62	62	72	57	47	42	48	60	50	51	67	77	63.0	
	Minimum	52	53	40	48	43	41	43	45	43	42	43	46	34	32	37	40	38	33	33	43	47	44	41	39	25	31	38	27	33	37	39.7	
Altoona.....	Maximum	79	66	64	63	65	69	69	61	58	59	70	71	58	59	66	66	61	47	55	63	73	65	49	47	54	51	59	73	79	61.9		
	Minimum	52	40	34	37	47	41	38	49	38	44	37	43	35	29	31	36	50	34	28	42	41	57	39	37	38	18	29	35	25	43	49	38.4
Bedford.....	Maximum	85	68	68	66	67	71	74	69	62	58	71	75	65	62	70	69	64	55	58	67	66	71	64	53	55	50	61	55	65	74	75	65.6
	Minimum	51	44	36	37	46	39	39	52	36	41	34	40	43	29	27	31	52	33	26	42	42	56	42	40	25	20	24	39	25	35	39	37.6
Bellefonte.....	Maximum	76	63	64	61	61	66	69	62	56	59	64	69	53	56	64	66	61	47	54	62	62	72	54	46	43	45	53	47	58	72	75	60.0
	Minimum	50	40	34	34	43	35	34	42	36	41	34	40	35	25	28	38	42	32	26	41	45	47	38	38	24	19	35	29	24	31	39	35.5
Brookville.....	Maximum	77	60	66	72	67	68	73	76	74	59	55	70	66	63	60	75	74	62	61	62	66	71	61	59	61	51	55	64	71	72	76	66.7
	Minimum	38	34	29	31	42	34	31	39	43	41	33	38	33	25	24	28	47	34	25	34	33	33	35	27	15	27	31	24	34	36	62.8	
Butler.....	Maximum	75	64	71	68	67	69	71	74	71	55	70	68	61	59	65	77	76	56	57	63	78	75	54	53	53	59	57	70	73	78	65.8	
	Minimum	42	36	31	35	47	38	34	48	42	42	38	46	29	25	30	48	40	25	50	48	38	32	38	32	17	37	31	28	45	88	36.6	
Carlisle.....	Maximum	86	78	70	70	66	72	74	72	68	64	70	77	70	65	70	65	60	55	60	71	65	77	70	57	47	57	61	54	57	80	67.5	
	Minimum	54	47	40	36	54	38	38	44	37	38	36	40	47	30	29	36	55	37	32	38	41	60	47	38	40	22	25	36	27	36	38	39.2
Catawissa.....	Maximum	83	73	72	69	64	74	73	65	67	66	67	73	67	60	70	68	65	56	58	67	65	75	72	64	45	52	57	50	50	70	77	65.6
	Minimum	50	44	40	38	45	41	38	42	44	40	39	42	33	29	31	36	47	38	32	44	40	59	43	39	26	23	32	31	25	31	36	38.1
Chambersburg.....	Maximum	87	69	64	68	66	71	70	73	63	64	66	77	65	63	67	62	64	54	57	71	62	75	64	51	49	50	59	55	58	75	81	65.2
	Minimum	52	49	41	39	51	40	39	49	38	42	37	42	48	31	31	36	48	37	31	41	43	55	43	40	38	23	26	38	27	36	43	39.8
Chambersville.....	Maximum	76	65	66	66	63	67	74	64	63	58	70	70	58	59	74	73	68	52	60	64	71	71	72	53	54	52	62	59	70	72	75	65.0
	Minimum	58	39	32	40	47	37	36	47	39	43	37	51	32	27	29	41	48	38	23	49	43	54	33	37	33	16	34	31	28	38	38	38.0
Claysville.....	Maximum	77	69	69	70	67	71	71	67	55	54	73	68	58	65	77	80	67	58	63	67	82	76	55	61	58	60	63	56	74	78	80	67.4
	Minimum	59	40	36	60	47	39	35	39	43	41	42	51	37	25	29	53	57	32	30	43	44	47	35	38	36	20	34	36	33	46	44	40.0
Clearfield.....	Maximum	75	77	71	65	67	72	74	62	60	57	67	69	70	61	73	71	62	54	57	65	68	67	62	43	48	50	57	56	71	75	77	64.6
	Minimum	49	37	33	33	47	58	37	42	38	37	42	38	34	26	27	31	48	35	29	38	32	85	35	32	32	20	24	28	25	34	38	35.3
Coatesville.....	Maximum	79	74	67	67	64	70	71	75	70	64	67	78	66	67	65	70	65	60	59	68	67	74	60	50	49	62	51	55	70	75	77	65.5
	Minimum	51	52	43	41	50	45	43	47	42	42	44	47	35	33	35	48	40	36	36	44	52	46	40	34	26	35	37	29	41	42	41.4	
Corry.....	Maximum	69	63	72	66	68	70	73	63	60	54	67	62	51	68	70	72	67	45	49	61	72	61	49	42	51	60	58	60	66	70	61.3	
	Minimum	42	50	41	49	40	36	33	45	41	40	43	45	40	34	32	43	34	33	28	43	34	44	30	35	29	18	34	26	36	39	36.9	
Coudersport.....	Maximum	71	62	67	65	57	64	68	60	55	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	Minimum	36	38	28	31	46	39	31	37	40	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Emporium.....	Maximum	72	62	64	63	59	67	68	57	54	53	66	65	51	56	68	68	62	45	54	60	64	67	51	44	44	48	56	52	62	70	75	59.6
	Minimum	52	41	34	36	50	42	38	40	44	41	42	38	35	30	29	33	45	35	33	42	33	50	37	40	30	18	35	30	24	35	35	37.0
Erie.....	Maximum	76	61	69	65	63	63	67	63	56	59	70	62	49	59	72	73	57	51	58	66	75	69	50	46	39	51	52	42	65	66	69	64.0
	Minimum	56	48	45	52	52	46	47	48	47	50	49	42	41	44	52	44	41	38	45	48	46	40	38	33	27	37	35	36	51	56	44.6	
Franklin.....	Maximum	69	66	75	69	64	75	76	69	56	55	69	69	57	64	73	76	63	50	58	70	77	64	57	49	41	50	55	55	70	75	80	64.4
	Minimum	40	40	34	35	41	40	37	39	44	42	41	46	34	29	29	34	36	36	25	27	36	51	33	34	33	17	18	25	25	37	38	34.7
Freeland.....	Maximum	74	57	63	62	60	63	65	70	61	57	62	71	60	52	64	59	57	51	54	61	57	65	60	40	43	52	56	49	62	75	59.1	
	Minimum	55	44	41	42	45	41	40	50	40	41	40	48	39	29	39	44	49	37	31	39	40	51	37	33	27	18	29	30	23	39	46	38.9
Gettysburg.....	Maximum	85	68	67	68	62	69	72	71	66	65	68	78	70	60	66	68	66	58	59	71	61	75	69	53	49	49	59	54	58	74	78	65.7
	Minimum	57	51	44	42	52	44	45	50	42	41	39	45	49	36	33	42	57	39	34	42	45	58	45	41	40	24	25	40	29	40	45	42.5
Greensburg.....	Maximum	77	66	70	70	65	67	68	59	54	71	70	59	61	78	78	68	53	64	65	84	71	57	59	60	60	61	65	73	74	80	67.2	
	Minimum	61	45	39	41	50	41	45	36	41	42	40	52	41	28	31	41	51	37	29	51	49	53	38	42	35	21	38	35	30	47	47	41.2
Grove City.....	Maximum	74	64	68	66	65	70	70	64	54	55	68	65	59	59	71	72	69	53	54	65	75	68	57	49	49	51	54	50	68	70	74	62.9
	Minimum	56	43	38	45	47	38	46	45	43	43	42	51	37	27	37	45	47	42	33	49	47	44	37	37	35	22	40	30	34	44	52	41.2
Hamburg.....	Maximum	80	76	73	70	72	74	74	74	75	70	67	76	73	66	70	69	71	65	68	68	72	68	65	47	59	62	56	68	69	69	68	63.1
	Minimum	55	46	45	38	42	42	44	40	42	43	40	40	47	29	29	35	56	33	37	38	42	40	45	43	39	25	30	40	26	29	30	39.1
Harrisburg.....	Maximum	88	64	65	65	63	68	72	72	63	63	65	74	59	58	65	67	65	63	56	66	65	73	64	49	47	57	49	57	72	77	63.3	
	Minimum	58	51	48	45	52	50	51	48	47	46	44	49	46	40	38	44	51	44	37	46	45	58	44	41	33	30	31	38	33	40	43	44.2
Hawley.....	Maximum	77	65	62	64	61	69	69	67	59	69	63	69	64	64	66	65	65	59	59	55	64	57	65	63	46	43	48	57	54	61	71	61.1
	Minimum	47	42	32	32	47	36	34	38	39	35	37	35	41	26																		

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CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION.

G. S. BLISS.

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GENERAL SUMMARY.

November was a month of great temperature extremes. It began and ended with mild temperatures, the highest for the month being generally recorded on the 1st, 2d, or 30th. It was unseasonably cold from the 4th to 19th inclusive, and on the 16th and 17th the lowest temperatures of record for so early in the season were reached at several stations. On those dates the minimum temperatures were generally below zero in the northern tier of counties. The average of 38.1° for the State was the lowest November temperature since 1917. The maximum of 83° for the State was exceeded in 1927 and equalled in 1896. With those exceptions it was the highest November temperature of record. The minimum of 11° below zero was exceeded only in 1930, which recorded 15° below zero. The temperature range of 94° was the greatest of record for November. This was the driest month of the year to date, the average precipitation of 1.55 inches being a little more than one-half of the November normal. Precipitation was heaviest in the northwestern counties, being a little above the normal at a few stations, and was very light in the south-central and southeastern counties. This distribution helped to even up the accumulated departures for the year, but still left a deficiency of 9.77 inches at Erie, and an excess of 11.87 inches at Philadelphia. The greater portion of the precipitation, excepting a few southeastern counties, was in the form of snow, which was light in texture and of little water content. The average snowfall of 7.0 inches for the State has been exceeded only in 1910 and 1892. The heaviest monthly snowfall was 60.5 inches at Corry, in the southeastern corner of Erie County. At that station there was a measurable quantity of snowfall on fifteen successive dates, from the 5th to 17th inclusive. Excepting the south-central and southeastern counties, the ground was snow covered a little more than one-half of the month, and the winter grains were preserved in good to excellent condition. In the excepted regions the top soil became very dry, and the grains began to turn yellow. The surface water supply was getting low at the end of the month, especially in the eastern half of the State.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 88 stations, was 38.1°, which is 3.1° below the November

normal. The highest monthly mean was 45.4°, at Marcus Hook, and the lowest was 28.5°, at Mount Pocono. Extremes for the month ranged from a maximum of 83° at Beaver Dam on the 2d to a minimum of -11° at Coudersport on the 16th. The greatest daily range in temperature was 45° at Somerset on the 17th.

PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from the observations of 144 stations, was 1.55 inches, which is 1.31 inches below the November normal. The greatest monthly amount was 5.21 inches at Corry, while the least, 0.51 inch was recorded at Ephrata. The greatest amount recorded in any 24 consecutive hours was 1.12 inches at Meadville on the 10th. Snowfall averaged 7.0 inches, which is 4.5 inches above the November normal. The greatest monthly snowfall was 60.5 inches at Corry, and the greatest 24 hour fall was 12.0 inches at Meadville on the 10th.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1888.....	42.2	+1.0	79	4	3.37	+0.51	6.22	1.99	2.1	11	9	7	14
1889.....	41.8	+0.6	73	10	6.72	+3.86	10.16	2.72	0.7	15	5	8	17
1890.....	41.8	+0.6	78	10	1.49	-1.37	4.29	0.78	0.5	8	9	10	11
1891.....	39.7	-1.5	76	6	2.65	-0.21	5.70	1.09	1.2	9	9	8	13
1892.....	39.0	-2.2	80	10	4.34	+1.48	7.08	1.61	8.6	12	6	8	16
1893.....	39.2	-2.0	68	-4	2.93	+0.07	5.69	1.16	2.4	8	8	11	11
1894.....	38.2	-3.0	74	6	2.50	-0.36	3.64	0.74	5.3	9	10	9	11
1895.....	42.9	+1.7	78	6	2.48	-0.38	5.73	0.97	0.5	10	10	8	11
1896.....	46.0	+4.8	83	12	3.55	+0.69	8.05	0.82	1.1	10	8	9	13
1897.....	41.6	+0.4	76	2	5.28	+2.42	7.04	2.37	2.6	14	6	8	16
1898.....	40.0	-1.2	73	2	4.03	+1.17	7.34	1.44	6.9	11	8	9	13
1899.....	41.5	+0.3	72	8	2.66	-0.20	4.86	0.61	1.2	7	10	8	12
1900.....	43.5	+2.3	79	7	4.10	+1.24	6.92	1.67	3.1	12	6	9	15
1901.....	36.0	-5.2	76	7	2.56	-0.30	5.00	1.23	3.1	8	7	8	15
1902.....	47.3	+6.1	78	9	1.53	-1.33	3.02	0.50	1.5	8	10	8	12
1903.....	36.9	-4.3	78	0	2.18	-0.68	5.33	0.88	1.4	7	11	8	11
1904.....	38.8	-2.4	79	-4	1.14	-1.72	3.31	0.14	3.5	6	10	9	11
1905.....	39.1	-2.1	68	5	2.47	-0.39	3.72	1.08	0.9	9	11	8	11
1906.....	41.5	+0.3	80	9	1.48	-1.38	3.08	0.54	4.0	8	12	6	12
1907.....	39.8	-1.4	70	4	3.60	+0.74	7.52	1.05	2.9	10	13	8	9
1908.....	41.2	0.0	75	-2	0.90	-1.96	1.97	0.20	5.0	5	12	8	10
1909.....	46.4	+5.2	80	15	1.40	-1.46	3.97	0.26	1.9	7	12	8	10
1910.....	36.8	-4.4	68	9	2.45	-0.41	5.63	0.33	8.5	11	4	7	19
1911.....	37.8	-3.4	77	7	2.84	-0.02	5.68	0.99	3.7	10	7	7	16
1912.....	43.0	+1.8	81	7	2.17	-0.69	4.83	0.61	1.9	7	10	8	12
1913.....	43.9	+2.7	79	10	3.05	+0.19	6.34	1.43	4.5	11	10	5	15
1914.....	40.6	-0.6	81	-2	1.76	-1.10	4.27	0.57	1.5	6	12	9	9
1915.....	42.1	+0.9	79	13	2.18	-0.68	5.32	0.22	1.3	10	10	9	11
1916.....	41.3	+0.1	79	4	2.27	-0.59	7.97	0.88	1.6	9	13	6	11
1917.....	37.6	-3.6	69	-5	0.63	-2.23	1.37	0.12	1.4	5	14	7	9
1918.....	42.1	+0.9	76	11	2.03	-0.83	4.07	0.44	T.	7	12	6	12
1919.....	41.2	0.0	76	11	5.35	+2.49	8.45	1.84	2.3	12	11	7	12
1920.....	40.3	-0.9	75	5	3.54	+0.68	6.42	1.85	4.5	11	7	7	16
1921.....	42.3	+1.1	80	3	5.75	+2.89	9.14	3.20	1.4	16	5	7	18
1922.....	42.9	+1.7	73	12	1.21	-1.65	4.52	0.23	1.8	9	10	7	13
1923.....	40.7	-0.5	70	10	2.83	-0.03	6.84	1.55	0.3	10	12	5	13
1924.....	40.7	-0.5	78	-9	1.54	-1.32	3.29	0.56	2.9	7	12	8	10
1925.....	39.5	-1.7	71	4	3.56	+0.70	6.07	1.50	2.2	10	11	7	12
1926.....	40.4	-0.8	79	-1	4.49	+1.63	9.84	2.00	0.9	10	9	7	14
1927.....	46.2	+5.0	85	10	4.95	+2.09	11.36	2.21	1.8	14	7	7	16
1928.....	43.4	+2.2	81	4	2.32	-0.54	5.71	1.05	2.3	12	7	8	15
1929.....	41.1	-0.1	81	-10	3.89	+0.53	5.07	1.89	1.9	12	8	8	14
1930.....	42.0	+0.8	75	-15	1.48	-1.38	4.29	0.22	2.3	9	10	7	13
1931.....	49.2	+8.0	80	12	1.52	-1.34	4.42	0.36	2.9	9	10	8	12
1932.....	39.4	-1.8	75	-2	4.75	+1.89	9.11	2.30	0.3	10	12	7	11
1933.....	38.1	-3.1	88	-11	1.55	-1.31	5.21	0.51	7.0	11	8	7	15
Period.....	41.2	.....	85	-15	2.86	.....	11.36	0.12	2.5	10	9	8	13

Climatological Data for November, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches				No. of days			Prevailing direction of wind	Observers			
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more			Clear	Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	21	37.6	-4.8	69	30	12	16	38	0.72	-1.96	0.54	2.2	10	13	8	9	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	46	36.6	-3.8	74	2	7	16	29	1.54	-0.69	0.34	7.1	15	15	5	10	w.	F. E. Rooney.
Ardmore.....	Montgomery.....	350	1	42.2	-2.0	74	30	14	16	34	0.96	-2.58	0.52	0.4	7	.....	.....	.....	.....	H. G. Balderston.
Bedford.....	Bedford.....	1,060	1	39.4	.....	79	1	7	17	36	1.09	.....	0.62	3.5	9	14	2	14	nw.	Charles C. Lee.
Bellefonte.....	Center.....	1,050	25	35.4	.....	76	1	9	16	32	0.82	-1.29	0.38	2.1	11	3	9	18	sw.	U. S. Weather Bureau.
Bethlehem.....	Northampton.....	364	48	40.5	-3.7	70	1	13	16	30	0.73	-2.37	0.48	6.9	9	9	2	19	w.	Lehigh University.
Carlisle.....	Cumberland.....	467	67	39.2	-1.9	73	1	12	17	41	0.76	-2.35	0.53	7	5	13	7	10	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	37	37.9	-4.5	70	1	10	16	29	1.17	-1.57	0.50	9.2	11	8	7	15	.....	W. L. Gearhart.
Center Hall.....	Center.....	1,272	37	36.1	-4.1	73	1	8	16	32	0.89	-1.37	0.28	6.2	8	12	6	12	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	34	39.9	-2.0	75	1	13	16	37	0.77	-1.93	0.49	0.7	10	10	6	14	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. W. Hess.
Coatesville.....	Chester.....	380	46	40.2	-2.6	72	30	9	16	35	0.98	-2.18	0.72	1.2	6	13	1	16	nw.	Howard L. Pyle.
Colebrook.....	Lebanon.....	560	22	37.6	-4.0	71	1	7	17	34	0.78	-1.80	0.36	1.2	8	14	1	15	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	46	36.2	-3.0	73	2	16	16	29	4.14	+1.25	0.85	21.5	19	3	8	19	nw.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	41	40.8	-2.1	73	1	16	16	34	0.51	-1.96	0.42	0.5	4	10	7	13	s.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	40	33.6	-3.4	66	2	3	16	25	1.69	-1.99	0.56	14.5	14	6	6	18	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	27	40.6	-2.6	72	30	13	16	43	1.12	-1.47	0.67	1.5	8	11	12	7	sw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	553	60	41.2	-0.8	74	1	13	17	33	0.82	-1.88	0.51	0.4	11	12	6	12	w.	Dr. Henry Stewart
Gordon.....	Schuylkill.....	840	29	35.4	-4.2	69	1	3	17	34	1.21	-1.93	0.54	7.0	8	14	1	15	w.	Sallie M. Johnson.
Gouldsboro.....	Wayne.....	1,875	18	29.4	.....	59	1	1	16	31	1.32	-1.95	0.35	5.0	7	5	9	16	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	40	37.8	-4.1	78 ^b	1	12 ^b	16	39 ^b	0.81	-2.07	0.51	1.5	7	12	9	9	w.	State Sanatorium.
Hanover.....	York.....	600	29	42.4	-2.2	75	1	13	16	34	1.05	-1.09	0.64	1.0	8	13	4	13	s.	Thomas Y. Cooper.
Harrisburg.....	Dauphin.....	361	64	40.4	-2.8	72	1	16	17	31	0.70	-1.56	0.42	1.2	7	8	8	14	w.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	15	34.6	-	73	2	6	16	42	1.08	-1.64	0.59	10.6	8	12	7	11	nw.	Mrs. Della M. Pennell.
Holtwood.....	Lancaster.....	200	18	41.0	-3.8	66	30	19	16	26	0.88	-1.44	0.65	1.0	7	12	6	12	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	46	38.6	-3.1	75	1 [†]	9	17	36	1.02	-1.36	0.57	7	10	6	10	14	nw.	Prof. Paul R. Yoder.
Hyndman.....	Bedford.....	977	21	40.0	-2.3	81	1	6	17	38	1.22	-0.72	0.57	0.4	12	10	4	16	.....	Horace A. Sheavly.
Kylertown.....	Clearfield.....	1,637	3	34.0	.....	72	2	4	16	32	1.82	.....	0.54	17.0	12	8	4	18	sw.	Bureau of Plant Industry.
Lancaster.....	Lancaster.....	255	46	37.0	-6.4	63	30	10	16	33	0.63	-1.90	0.44	7	3	12	9	9	nw.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	36	35.9	-3.1	75	2	-1	16	37	1.15	-1.18	0.50	11.0	9	6	10	14	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	49	38.9	-3.6	75	1	12	17	34	0.85	-2.04	0.24	0.4	10	11	10	9	sw.	Lebanon Valley Gas Co.
Lewisburg.....	Union.....	450	57	38.9	-1.6	70	1	12	16	32	1.07	-1.53	0.56	4.2	11	7	6	17	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	43	39.2	-2.7	73	1	10	16	32	1.24	-1.17	0.40	5.0	11	3	13	14	sw.	Joseph Beaver.
Lykens.....	Dauphin.....	680	18	38.0	-3.8	78	1	6	17	40	0.90	-2.42	0.29	4.0	12	11	6	13	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	6	45.4 ^a	.....	77 ^a	1	17 ^a	16	36 ^a	1.13	.....	0.90	7	3	15	8	7	sw.	Sun Oil Co.
Mauch Chunk.....	Carbon.....	600	44	37.7	-3.5	74	1	9	17	36	0.97	-2.47	0.60	2.2	7	12	5	13	nw.	R. K. Wintermute.
Midlinton.....	Junata.....	445	29	39.7	-1.7	80	1	11	17	40	0.68	-1.52	0.50	0.5	4	12	5	13	w.	W. H. Manbeck Co.
Montrose.....	Susquehanna.....	1,658	29	33.0	-4.4	72	1	-3	17	34	2.45	-0.21	0.95	15.0	8	4	6	20	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,720	27	28.5	-7.8	70	1	8	17	34	1.48	-1.53	0.62	10.5	7	9	3	18	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	21	34.5	-5.0	72	3	-4	16	34	1.37	-1.73	0.77	9.0	8	9	10	11	nw.	H. O. Hacker.
Neshaminy Falls II.....	Bucks.....	60	44	40.7	-1.5	73	30	14	16	38	0.77	-1.65	0.41	7	7	9	10	11	nw.	Philadelphia Sub. Water Co.
Palmerton.....	Carbon.....	398	15	37.2	.....	71	1	10	16	33	0.70	-2.19	0.50	0.6	8	15	5	10	nw.	New Jersey Zinc Co.
Philadelphia.....	Philadelphia.....	114	62	44.1	-1.6	73	30	20	16	27	1.07	-1.63	0.71	0.2	7	9	8	13	w.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	9	43.8	.....	72	30	19	16	30	1.08	.....	0.70	0.8	8	7	15	8	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	17	42.5	-3.2	72	30	18	15	30	1.05	-1.30	0.40	1.0	8	2	15	13	sw.	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	23	41.6	-1.5	78	1	13	16	39	0.68	-2.19	0.55	7	4	12	11	7	w.	Philadelphia Sub. Water Co.
Quakertown.....	Bucks.....	496	48	38.6	-2.6	70	30	13	17	33	0.65	-2.49	0.46	0.1	8	8	11	11	nw.	John E. Benner.
Reading.....	Berks.....	514	63	43.0	+0.5	72	30	17	16	35	0.59	-2.14	0.37	0.2	8	5	12	13	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	39	36.7	-3.8	69	2	11	16	28	1.22	-1.55	0.83	10.7	9	4	14	12	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	43	38.7	-3.0	69	1 [†]	12	17	37	0.68	-2.08	0.46	1.0	11	8	7	15	w.	Dr. George E. Fisher.
Shawmont II.....	Philadelphia.....	51	37	42.8	-2.0	73	1	17	17	34	0.78	-2.04	0.54	0.5	6	6	8	16	nw.	W. S. Giles.
Shippensburg.....	Cumberland.....	660	...	40.3	.....	73	1 [†]	13	17	33	0.80	.....	0.35	7	9	9	4	17	sw.	State Teachers College
State College.....	Center.....	1,217	49	37.8	-2.0	72	2	9	16	29	1.62	-0.79	0.51	5.2	11	8	9	13	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	19	35.2	-5.3	68	1 [†]	10	16	39	0.97	-2.31	0.48	5.2	7	8	5	17	nw.	State Normal School.
Towanda.....	Bradford.....	754	39	36.6	-3.0	73	2	7	16	36	0.88	-1.29	0.52	7.2	9	7	5	18	w.	Mrs. M. Ordella Parks.
Wellsboro.....	Tioga.....	1,419	63	33.6	-3.9	71	2	-2	16	35	1.18	-1.44	0.46	9.7	11	7	6	17	nw.	George W. Hill.
West Chester.....	Chester.....	455	84	41.8	-1.1	71	30	15	16	30	0.83	-2.70	0.61	0.2	4	11	8	11	w.	Joseph W. Belt.
Williamsport.....	Lycoming.....	521	47	37.8	-3.3	70	1	11	16	31	1.08	-1.50	0.5	7.2	15	9	3	18	sw.	Miss Veronica E. April.
York.....	York.....	400	45	40.8	-2.2	72	1 [†]	13	16	35	0.91	-1.58	0.54	1.0	11	8	10	12	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam II.....	Beaver.....	700	41	40.9	-2.4	83	2	9	16	36	1.74	-0.81	0.65	8.0	14	7	3	20	sw.	U. S. Engineer.
Brookville.....	Jefferson.....	1,173	43	36.0	-1.5	79	3	-2	16	38	3.20	+0.19	0.66	18.2	15	8	5	17	.....	John Favcott.
Butler.....	Butler.....	1,077	20	36.8	-4.2	81	1	3	16	40	1.73	-1.15	1.00	10.5	10	12	8	10	w.	William C. Faust.
Chambersville.....	Indiana.....	1,047	3	37.2	-3.9	78	2	2	16	36	2.18	-0.77	0.44	11.3	18	8	1	21	w.	John E. Lewis.
Claireton.....	Allegheny.....	1,020	1	38.4	.....	79	2	7	16	38	1.15	.....	0.60	4.4	12	6	4	20	s.	Carnegie Steel Co.
Claysville.....	Washington.....	1,150	28	39.9	-2.2	80	2	1	16	37	1.60	-0.82	0.74	3.5	17	9	4	17	nw.	J. L. Melvin.
Corry.....	Erie.....	1,430	20	33.7	-5.0	78	2	4	16	33	5.21	+0.99	0.76	60.5	21	5	7	18	sw.	Ass'd Gas & Electric Co.
Coudersport.....	Potter.....	1,765	9	32.4	.....	70	1 [†]	-11	16	32	1.99	-1.18	0.37	8.5	14	6	4	20	w.	West Penn. Power Co.
Derry.....	Westmoreland.....	1,172	36	38.4	-3.5	71	1 [†]	5	17	44	1.72	-1.01	0.45	4.0	13	9	3	18	w.	Ted R. Wineman.
Ebensburg.....	Cambria.....	2,000	16	35.2 ^a	-2.9	75	1 [†]	5	17	35	3.14	-0.07	0.80	16.0	12	6	8	16	w.	D. H. Jones.
Elk Lick II.....	Somerset.....	2,680	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Stevanus.
Franklin.....	Venango.....	957	59	35.2	-4.4	78	1 [†]	6	16	39	3.86	+0.74	0.71	22.0	16	5	2	23	w.	Robert A. Fergus.
Greensburg.....	Westmoreland.....	1,150	24	40.8	-1.9	80	2	8	16	34	1.69	-0.79	0.52	7.7	17	8	7	15	w.	Westmoreland Water Co.
Greenville.....	Mercer.....	950	37	38.4	-1.1	77	2	4	16	32	3.55	+0.48	0.55	19.2	16	6	3	21	.....	Charles P. Clarke.
Grove City.....	Mercer.....	1,256	26	37.4	-3.0	76	2	10	17	28	3.12	+0.08	0.48	9.8	18	4	6	20	s.	Prof. H. W. Harmon.
Johnstown.....	Cambria.....	1,184	51	39																

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also. * Incomplete.

Reference letters, ^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow

If Post-Office addresses are as follows: of Beaver Dam, Beaver; of Elk Lick, Grantsville, Md; of Lycippus, Greensburg; of Neshaminy, Oakford; of Sharon, Farrell; of Shawmont, Manayunk; of Kane (near), Wilcox.

Daily Precipitation for November, 1933

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh					.49	.05	T.			.02	.01			.01	.05	.02		.02		T.		.01										0.72
Altoona	Juniata				.05	.34	.05	.04	.15	.20	.08	.08	.14	.09		.07	T.	.05	T.	.07							.11	.02					1.54
Ansonia	W. Br. Susq.				.46	.01	.03	.04	.02	T.	.29	.01	.22	.01	.02	T.			.07	T.	.05	T.	.03					.05			T.		1.31
Ardmore	Lower Del.				.02	.52			.02	T.			.12	.08		.16	T.			.16	T.						.04						0.96
Baker's Summit	Juniata				.22	.36		.19	.10	.03		.02	.05	.09	.07		.07					.06					.07						1.33
Bedford	Juniata			T.	.40	.22	.01	.05		.14		.06	.06				T.	T.				.10					.05	T.					1.09
Bellefonte	W. Br. Susq.				.31	.09	T.	T.	.01	T.	.12	T.	.10	.02	T.	T.	.02	.03	.02		.01	T.	T.				.09	T.					0.82
Bethlehem	Lehigh				.01	.48		T.	T.	.02	T.		.10						.03		.01	T.					.05						0.73
Bloersville	Lower Susq.				T.	.48	.01	T.					.10					T.	T.								.05						0.74
Buffalo Mills	Juniata				.61						.22		.11						T.	.03	T.		.05					.09					1.08
Carlisle	Lower Susq.				T.	.53		T.	.02	T.		T.	.11	T.					T.	.03	T.							T.	.07				0.76
Catawissa	N. Br. Susq.				.20	.30		T.	T.	.09	.12		.02	.02	.21					.02		.02					.15						1.17
Center Hall	Susquehanna				.28			.08	.12		.05	.10			.14	.10											.02						0.89
Chambersburg	Potomac				.20	.29		.02	T.	.03		.02	.10	.03	.02				.01	T.							.05						0.77
Clearfield	W. Br. Susq.				.09	.63		T.					.13	T.				.05				.02					.06						0.98
Coatesville	Lower Del.				.08	.36	T.	T.	.01	T.	T.	T.	.06	.12	T.			.02	T.			.02	T.				.11						0.78
Colebrook	Lower Susq.				.60			T.					.18	.08				.06									.02						0.94
Conshohocken	Schuylkill				.68	.16		.15	.30	.15			.10	.24				.12				.04					.14						2.08
Cresson	Juniata				.52				.01				.05					T.				.01					T.						0.59
Doylstown	Lower Del.				.20	.25		.10	.10	.25	.60	.85	.12	.40	.10			.29	.05	.05	.10	.06	T.				.29	.06		.24	.03		4.14
Emporium	W. Br. Susq.			T.	.20	.25		.10	.10	.25	.60	.85	.12	.40	.10			.29	.05	.05	.10	.06	T.				.29	.06					0.51
Ephrata	Lower Susq.				T.	.42		.03	T.	T.			.01	.05	T.			.01	.05	T.							T.	T.					0.95
Forest City	N. Br. Susq.				.53						.30		.02	.03				.03	.04							T.	T.						1.69
Freeland	Lehigh				.56	.10	.06	.04	.09	.10	.18		.07	.12	.07			.02	T.	.03		.05					.20						2.02
Galeton	W. Br. Susq.			.11	.40	.06		.15	.10	.02	.34	.06	.27	.05	T.			.12	.07			.07					.18				.02		1.12
George School	Lower Del.	T.	T.	.01	.02	.65	T.	T.		T.			.15	.20				.05			T.	.02	T.				.02						0.82
Gettysburg	Potomac				.12	.51		.01		.02		.01	.04	.03				.01	T.	T.		.02					.04	.01					
Girardville	Lower Susq.				.50	.20		.09	.09	.23	.09		.06	.15	.22	.22			.08			.01					.06						2.00
Gordon	Lower Susq.				T.	.54		.10	.12		.10		.02	.10	T.			.02		.13							.18						1.21
Gouldsboro	Lehigh				.18	.12	.09				.09											.26			.35					.23			1.32
Graterford	Schuylkill				T.	.48	.03	T.					.05	.01								.03					.01	.03					0.64
Hamburg	Schuylkill				.03	.51		.06		T.			.06	.09		.05					.01							.02	.08				0.81
Hanover	Lower Susq.			T.	.07	.64		.04		T.			.05	.09				T.	T.			.06					.02	.08					1.05
Harrisburg	Lower Susq.			T.	.25	.17		.03	.05	T.	T.		.08	.10	T.			T.	T.		.03	T.					.07						0.70
Hawley	Upper Del.				.59	.24	.03	T.	T.	T.			.08		.01	.04			T.	T.		.01					.08	T.					1.08
Hollisterville	Upper Del.				.75	.15	.15	T.	T.			.08		.08	.09			T.	T.	.03	.05		.02				.16						1.51
Holtwood	Lower Susq.			.02	.65	.02	T.		T.				.03	T.				.03	T.		.03						.05						0.88
Huntingdon	Juniata				.35	.22	.02	T.	.11	T.		.03	.11	T.	T.			.06	.02	T.		.03					.07						1.02
Hyndman	Potomac				.57	.37	.03	.01	.03		.01	.02	.03	.02	T.			.03	T.								.07	T.					1.22
Kylertown	W. B. Susq.				.29	.54		.05	.15	.04	.21		.11	.09	.04					.15							.10						1.84
Lakeville	Upper Del.				.29	.55	.45	.05	.15	T.	T.	.14	.05	.08						.02		T.					.01	.12	T.				1.55
Lancaster	Lower Susq.				.44			.06	.05	.10	.20	T.		.03	.31	T.	T.			.02		.01						.07					0.63
Lansford	Lehigh				.40	.12	.06	.05	.10	.20	T.		.03	.31	T.	T.			.02		.01							.12					1.42
Lawrenceville	N. Br. Susq.			.15	.50		T.	T.	T.	.10	.10		.05	.05	.05	T.		.05	.10	T.							T.	T.					1.15
Lebanon	Lower Susq.				.18	.24	.03		.03	T.	T.		.14	.05	T.			T.		.01	.01		.03				.13						0.85
Lewisburg	W. Br. Susq.				.01	.56		.03	.03	T.		.12	.07	.06	T.			.05	.03			.01					.10						1.07
Lock Haven	W. Br. Susq.				.03	.40		.04	.10		.30	.08	.06	T.				.03	T.	.05			.01				.14						1.24
Lykens	Susquehanna				.13	.29		.02	.02	.09		.03	.12	.04				.02				T.					.08	.03					0.90
Marcus Hook	Lower Del.				.90			T.				.10	T.					.13				T.											1.13
Matamoras	Upper Del.				.15							.87						.05															1.07
Mauch Chunk	Lehigh				.12	.43		T.	T.	.07			.08	T.	.08	.04											.15						0.97
Mifflintown	Juniata				.07	.43			.10		.08	T.							T.								T.						0.68
Montrose	N. Br. Susq.				.30	.10				.60	.30	.20									.95							T.					2.45
Morris Run	N. Br. Susq.				.05	.44		.10	.13		.18	.04	.08	.10	.05				.10	.08			.04	.04				.02					1.45
Mount Pocono	Upper Del.				.50																												

Daily Precipitation for November, 1933—Continued from page 53

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage																																		
Beaver Dam|||	Ohio				.01		.65	.13	T.	.15	.15		.04	.15	.07	T.				.02	T.	.03			.22	.02	.01		T.	.03			1.74	
Beaver Falls|||	Beaver					.72	.01	.02	.20	.10	T.	.02	.03	.14	.10	T.			T.	.01		.05		.05	T.		T.		T.	.20			1.63	
Brookville	Allegheny				T.	.28	.04	.05	.22	.29	.09	.24	.42	.14	.16	.50			T.		.16	.15	.03			.20		T.		T.	.26			3.20
Butler	Ohio					1.00		.05	.02	.12			.25		*	.19																	1.19	
Chambersville	Allegheny				.05		.21	.44	.05	.07	.15	.11	.07	.06	.27	.18	.12			.03	.02	.03	T.	.02		.08					.06			2.18
Clairton†	Monongahela					.60	.02	.01	.01	.12	T.	T.		T.	.15	.01			.05	T.	.05		.02								.15			1.15
Claysville	Ohio				.01		.65	.19	.05	.04	.06	.02	.01	.01	T.	.18				.02	.05			.02	.08	.03				.14	.06		T.	1.60
Clymer||	Conemaugh						.60			.16		.18			.32	.17	T.			.12					.20	.08			.18				2.01	
Confluence|||	Youghiogheny						1.05	.05	.10		.21				.22	.35	.05			.28									.29				2.60	
Corry	Allegheny	.01		.14		.21	.15	.05	.76	.20	.34	.65	.03	.16	.13	.58	.64	.09		.07	.13			.33				.27	.09		.18		5.21	
Coudersport	Allegheny		.09		.32		.18	.04	.10		.34	.06	.16	.07	.07			.02	T.			.13						.37	T.		.04		1.93	
Derry	Conemaugh		T.		.45	.25	.05	T.	.12			.06		.19	.16	.09			.11	.06		.02	T.	.02		.02			.14			T.	1.72	
Donora|||	Monongahela					.04	.64	T.	.08	.02	.01	T.	.02	.11	.05	T.	T.		.03		.05		.02		.01			.04	.06			1.18		
Ebensburg	Conemaugh					.80	.26	.14	.07	.20	.25		.05		.40	.60			.07	T.	T.	.14						.16	T.			3.14		
Elk Lick	Youghiogheny																																	
Franklin|||	Allegheny			.03	.07		.71	.07	.18	.20	.69	.24	.30		.17	.15	.08	T.	.05		.05			.20	.04			.08	.32			3.86		
Greensboro	Monongahela			.03	.03	.03	.94	.02	.09	.02	.02		.02		.17	.08	T.		.12	.02	.03			.01		.02			.18			1.80		
Greensburg	Youghiogheny					.52	.21	.06	.01	.05	.03	.03	.01	.14	.12	.07			.09		.02			.01	.06	T.		.14	.12			1.69		
Greenville	Beaver		T.		.40	.20	.05	.48	.18	.41	.32	.08	.10	.55	.17	.08	T.		T.			.08	.08				.24	.13		T.	T.	3.55		
Grove City	do		.02		.08	.48	.15	.09	.32	.32	.30	T.	.07	.28	.14	.20				.01	T.	.10	.20	T.			.20	.10			.06	3.12		
Herrs Isl. Dam|||	Ohio		.02		.71			.02	.10	.20	T.	.01	.06	.17	.04	T.			.06	.01	.03		T.		.02			.20	.20			1.63		
Irwin	Monongahela		T.		.36	.24	.03	.03	.07	T.	T.	.05	.04	.10	T.				.02	T.	.02	T.		.02				.12	.02			1.10		
Johnstown	Conemaugh				.61	.15	.02	.09	.20	.16	.09	.02	.07	.24	.07		.03	.18	.07		.01	.03	T.				.05	.04				2.13		
Kane (near) ††	Allegheny		.06		.53			T.	.29	.36	.50	.53		.23	.20	.60	.10		T.	.90		.23					.32	.01			.07	4.93		
Kregar|||	Youghiogheny			T.	.66	.06	.15	.07	.20	T.			.21	.21	T.			.24	.07	T.	T.		.02		.02			.21				2.10		
Lake Lynn |||	Monongahela					.01	.78	.02	.06	.08				.18	.12	.04			.03		.04		.02				.18					1.66		
Linesville|||	Beaver		.08			.40	.07	.42	.22	.59	.13	.36	.03	.11	.31	.34	.01	.06			.05		.31	T.		.12		.43		T.	.03	4.07		
Lock No. 2|||	Ohio					.70	T.	.02	.13	.03		.07	.12	.20	T.					.03	.03	.04					T.	.15				1.49		
Lock No. 3|||	Monongahela		.01	T.	.65	.02	.08	.05	.05	T.	.03	T.	.18	.06	.02			.04	.02	.05	.03		.03		.02			.12				1.43		
Lock No. 5††|||	Allegheny		T.		.92			.06	.20	.02	T.	.08	T.	.16	.05			.02		.02	.05		.05				.18					1.87		
Lycippus	Conemaugh				.87	.25	.07	.03	.25	.05			.18	.11	.09			.46	.01		T.	.11	T.				.10					2.58		
McKeesport|||	Monongahela			.01	T.	.81	.02	.04	.03	.01		.01	.01	T.		.20		.02	T.	T.		.03					T.	T.				1.00		
Meadville	Allegheny	.09		.19	.17	.03	.48	.16	1.12	.33		.11	.20	.26	.25	T.		.10	.07		.07	.16				.25	.40			T.		4.44		
Mosgrove	do			T.		.85	.03	.02	.09	.07	.03	.09	.05	.16	.15			.03	.01	.05		.12				.23	.05					2.00		
Mount Lebanon	Ohio		.02		.66	.13	.04	T.	.08	.02	T.		T.	.16	T.		.01	T.	.01		.02	T.	T.	T.		.15					T.	1.30		
Natrona|||	Allegheny			T.		.85	T.	.03	.09	.04	T.	.09	.05	.16	.10	.02			.02		.04	.03					.18	.02				1.72		
New Castle|||	Beaver		.05		T.	.63	.03	.04	.12	.06		.10	.17	.13	.18	.12	T.	.02		.02	.02	.16	.01	.01			.06	.12			.01	2.06		
Newell	Monongahela		.03	.60	.10	T.				.17	.75			T.	T.	.15		.15		.02	.05		.05				.07		.03	T.		1.97		
Parkers Landing|||	Allegheny		T.			.64	T.	.10	.30	.20	.25	.22	.10	.20	.15		.02			.06			.13	T.			T.	.32	T.			2.89		
Pennline|||††	Beaver		.12			.39	.04	.32	.14	.27	.06	.26	T.	.07	.20	.21	.02	.05						.29			.10	.25			.04	2.83		
Pittsburgh***	Ohio		.01		.68	.13	.01	T.	.22	.07	.01		.12	.16	T.	T.	.02			.04		.02	T.	T.			.17	.02			T.	1.68		
Punkstutawney|||	Allegheny				.69	T.	T.	.18	.10			.31	.13	.10	.15					.42		.19									T.	2.27		
Ridgway	do		T.	.04		.49	T.	.11	.11	.05	.02	.31	.11	.27	.08	.08		.04	T.	.10	.14		.02	T.			.26			.06		2.33		
Saltsburg|||	Conemaugh				.74	.05	.04	.08	.09		.04			.20	.20			.08		.05		.01			.01			.14				1.68		
Sharon|||	Beaver		.03		.40	T.	.11	.19	.05	T.	.35	.05	.16	.05			T.	T.				.10					.09	.11				1.66		
Smethport	Allegheny		T.		.36	T.	.30	.10	.08	.12	.84	T.	.35	.22	.25	.02	T.					T.	T.	T.	T.	T.	T.	.02		T.	.02	2.58		
Somerset	Youghiogheny				.49	.21	.06	.09	.19	.20	.01	T.	.14	.27	.06			.11	.05	T.	T.	.01	T.				.12	.11			T.	2.12		
Springdale|||	Allegheny			T.		.77	.02	.05	.11	.04		.05	.04	.20	.03			.02		.05		.02		.02					.13			1.53		
Uniontown	Monongahela		T.		.52	.32	.06	.04	.05	.03	T.	.01	.16	.18		.03	T.	.17	.06		T.		.02		.02			.24	.06		T.	1.95		
Unity Reservoir†	Youghiogheny				.34	.25	.06	T.	.15	.10	.03	T.	.16	.23	*	.21	T.	.24	.10	.04	T.	.06	T.				.18	.10				2.25		
Vandergrift†	Conemaugh		.01		*	*	.83	.01	.06	.02	*	*	.63	*				*	*	*	.04						*	.20				1.80		
Warren	Allegheny		.12		.08	.02		.55	.20	.45	.50	.08	.30	.14	.30	.30	.05	.04	.06		.08	.24					.16	.06		.03	.03	3.79		
Waynesburg	Monongahela				.58	.24	.09	.10	.08	T.		.12	.18	T.				.04	.04								.11					1.58		
Westford|||	Beaver		.03	.20	.46			.20	.16	.25	.21	.17	.15	.07	.41	.40	.31	.15	.07	.06	.02	.32				.30			.02	.03		3.99		
West Newton|||	Youghiogheny		T.			.60	.02	.12	.02	.04		T.	T.	.13	.11			.05	.01	.04		.02	T.				.12					1.28		
Lake Drainage.																																		
Erie***	Lake Erie	T.	T.	.07		.15	.01	.37	.10	.26	.05	.35	T.	.01	.11	.06	.14	.04	T.	.01		.16	.10	T.	T.			.36	T.		.20		2.55	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * Included in next measurement.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Blossville, Newville; of Clymer, Indiana; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg; of Girardville, Shenandoah; of Kane, Wilcox; of Lock No. 5, Schenley. § Mdt. to mdt.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations	Atmospheric pressure (reduced to sea level)					† Wind				Relative humidity			Percentage of sunshine
	Mean	Highest.	Date	Lowest	Date	Average hourly velocity	Maximum * velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	
Erie.....	29.96	30.51	16	29.30	14	16.4	36	s.	17	78	75	76	16
Harrisburg.....	30.01	30.58	16	29.29	14	8.0	29	nw.	27	70	59	60	44
Philadelphia.....	30.02	30.59	17	29.33	14	13.2	33	s.	13	67	54	60	57
Pittsburgh.....	30.03	30.63	16	29.36	14	10.4	32	w.	26	75	64	67	26
Reading.....	30.01	30.59	17	29.30	14	12.0	40	nw.	27	67	53	61	39
Scranton.....	29.98	30.52	17	29.20	14	7.6	24	nw.	30	60	62	70	30

* For any five-minute period.

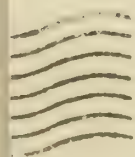
† Corrected to true velocities.

RIVER CONDITIONS

Stations	Rivers	Feet of water					
		Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.1	3.6	24	2.6	13	18
Phillipsburg.....	Delaware.....	2.1	2.7	1	1.4	30	22
Mauch Chunk.....	Delaware.....	2.5	2.8	1	2.2	16	27
Wilkes-Barre.....	Susquehanna.....	4.6	6.9	25	3.7	5	20
Williamsport.....	Susquehanna.....	1.5	3.2	25	0.7	5	20
Harrisburg.....	Susquehanna.....	4.1	5.0	27	3.8	6	17
Greensboro.....	Monongahela.....	12.3	14.0	20	11.2	5	30
West Newton.....	Youghiogheny.....	0.8	2.0	20	0.1	2	20
Lock No. 4.....	Monongahela.....	12.2	14.2	21	10.9	3	30
Pittsburgh.....	Ohio.....	11.0	13.9	24	9.9	2	23
Beaver Dam.....	Ohio.....	8.1	10.7	25	7.3	7	23

Stations

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.	Maximum	67	63	60	53	37	47	45	41	34	37	39	43	60	36	31	26	36	39	36	48	55	56	46	42	50	52	41	54	53	69	46.5	
	Minimum	42	40	42	37	26	28	30	34	27	30	23	26	32	31	18	12	14	16	33	32	26	27	35	28	29	29	30	23	26	31	28.6	
Altoona.	Maximum	73	74	66	49	40	28	34	28	22	25	12	30	34	24	11	7	8	32	41	32	25	41	32	29	35	28	18	25	30	48	28.7	
	Minimum	50	50	49	29	25	28	34	28	22	25	12	30	34	24	11	7	8	32	41	32	25	41	32	29	35	28	18	25	30	48	28.7	
Bedford.	Maximum	79	77	68	57	48	45	41	39	36	34	27	23	30	36	27	15	11	7	33	35	35	25	30	35	30	27	24	22	26	50	30.4	
	Minimum	43	48	51	31	32	30	38	29	24	27	23	30	36	27	15	11	7	33	35	35	25	30	35	30	27	24	22	26	28	50	30.4	
Bellefonte.	Maximum	70	69	63	47	34	37	40	36	37	31	38	40	44	31	24	9	9	10	29	30	25	22	35	32	31	36	29	21	21	26	40	27.5
	Minimum	46	42	36	27	23	29	34	25	24	25	22	32	31	24	9	9	10	29	30	25	22	35	32	31	36	29	21	21	26	40	27.5	
Brookville.	Maximum	77	76	79	55	51	42	38	40	35	37	30	37	40	39	33	23	33	36	39	43	57	60	43	38	48	44	52	51	54	60	25.7	
	Minimum	40	38	44	24	24	26	32	27	24	18	15	27	32	24	8	-2	1	25	27	28	21	37	33	29	34	27	21	23	31	34	25.7	
Butler.	Maximum	81	78	78	54	47	36	38	37	34	34	32	48	31	31	23	13	8	33	20	30	25	40	34	24	34	18	19	29	25	32	27.0	
	Minimum	41	42	47	21	30	32	34	25	22	24	19	31	31	31	23	13	8	33	20	30	25	40	34	24	34	18	19	29	25	32	27.0	
Carlisle.	Maximum	73	67	65	60	45	37	46	43	37	37	37	45	45	43	38	28	37	41	41	50	46	59	49	47	53	47	53	47	60	55	71	48.1
	Minimum	45	45	50	37	28	31	36	33	27	30	21	34	30	25	20	14	12	33	35	32	25	44	29	27	35	26	30	19	25	32	30.3	
Catawissa.	Maximum	70	67	65	53	39	43	43	40	43	38	42	37	47	41	34	25	35	39	39	50	50	52	57	46	50	60	52	42	54	52	66	47.4
	Minimum	45	40	37	24	24	33	30	27	30	28	30	25	34	28	17	10	14	22	31	30	25	36	31	30	33	30	27	26	23	45	28.4	
Chambersburg.	Maximum	75	73	68	60	40	42	45	42	41	37	40	46	46	40	33	30	40	45	42	55	43	60	51	46	54	45	40	38	35	25	29	31.0
	Minimum	45	47	48	36	30	30	38	31	26	29	24	33	31	29	18	13	14	33	35	35	27	40	30	35	25	25	25	25	29	39	31.0	
Chambersville.	Maximum	75	78	66	49	46	39	39	36	38	35	40	42	48	35	28	20	39	39	36	46	61	58	45	38	52	50	35	52	63	62	46.3	
	Minimum	39	48	46	28	26	32	33	26	18	23	14	29	33	23	12	2	4	33	28	31	29	40	33	28	34	33	19	27	27	45	28.1	
Claysville.	Maximum	77	80	71	51	48	41	41	38	38	38	50	50	53	33	27	22	42	44	38	54	67	59	43	41	56	51	36	57	64	62	49.1	
	Minimum	46	52	49	31	35	36	36	28	24	25	25	32	32	24	11	5	36	31	32	36	38	31	30	29	30	26	32	31	31	51	30.7	
Clearfield.	Maximum																																
	Minimum																																
Coatesville.	Maximum	70	68	66	60	40	37	48	44	42	40	41	45	61	44	34	29	36	40	39	51	60	59	49	44	52	56	39	58	57	72	49.4	
	Minimum	50	47	49	38	29	31	36	31	28	30	23	30	30	30	19	9	9	30	32	32	25	45	37	28	29	26	30	26	30	42	31.0	
Corry.	Maximum	76	78	65	45	34	35	37	34	32	28	31	36	41	32	25	18	30	33	30	40	50	48	34	34	50	45	35	45	53	55	41.0	
	Minimum	44	45	41	30	22	29	30	24	22	19	20	31	29	21	11	4	9	29	25	29	22	32	28	25	32	33	18	24	26	37	26.4	
Coudersport.	Maximum	70	70	69	47	38	35	36	32	32	38	26	34	36	32	26	18	32	34	32	36	41	46	38	32	42	41	26	43	48	56	39.5	
	Minimum	47	38	46	28	19	24	31	24	22	17	20	24	30	21	6	-11	10	30	24	28	16	38	28	25	31	33	18	23	23	45	25.3	
Emporium.	Maximum	71	73	65	55	35	38	40	33	38	34	35	38	40	34	26	22	36	38	35	43	48	51	40	38	49	42	42	48	54	60	43.5	
	Minimum	47	48	46	30	22	30	34	30	27	18	25	30	34	26	15	-2	10	35	30	30	20	39	33	32	32	32	24	25	25	40	28.9	
Erie.	Maximum	62	76	68	42	40	39	41	36	36	33	37	47	48	30	21	23	38	38	40	40	57	45	36	39	52	52	41	44	62	62	44.2	
	Minimum	50	59	40	31	27	33	35	28	27	26	24	31	31	27	21	16	14	16	31	31	32	35	36	32	30	37	24	25	34	34	41	30.9
Franklin.	Maximum	78	78	67	55	37	40	40	37	37	31	37	46	41	30	23	22	39	38	38	46	59	42	36	38	52	45	41	50	61	54	44.6	
	Minimum	39	45	45	27	25	30	33	28	25	22	20	21	30	23	11	6	7	14	28	30	24	27	32	25	28	34	22	21	26	29	25.9	
Freeland.	Maximum	64	66	60	47	36	33	35	37	29	33	30	41	41	35	25	23	31	35	32	42	46	50	39	44	50	38	39	48	49	61	41.3	
	Minimum	41	50	47	30	19	25	29	27	21	22	18	21	27	23	10	3	7	26	21	26	22	39	28	19	30	30	20	23	31	41	25.9	
Gettysburg.	Maximum	74	66	64	60	47	40	46	44	40	39	37	47	46	44	38	29	36	45	45	55	49	61	51	47	55	51	40	61	56	71	49.5	
	Minimum	52	46	51	39	31	31	38	32	27	30	26	36	33	30	20	15	13	32	36	35	29	45	37	28	33	30	27	28	33	45	39.9	
Greensburg.	Maximum	77	80	68	51	58	41	40	38	37	32	46	48	53	38	41	21	40	43	37	39	68	66	50	41	55	51	34	55	65	61	49.1	
	Minimum	44	53	48	46	40	40	34	23	30	29	29	32	32	26	13	8	9	36	32	33	38	36	31	35	32	21	30	32	48	48	32.5	
Grove City.	Maximum	74	76	72	49	44	44	39	38	34	31	35	40	44	32	28	23	35	37	40	46	60	55	38	35	50	48	33	47	60	59	44.9	
	Minimum	46	57	48	31	27	34	35	27	29	25	19	29	30	17	14	14	10	34	30	28	48	43	37	24	26	35	21	20	28	35	41	29.8
Hamburg.	Maximum	78	76	75	73	60	48	45	48	36	38	43	41	51	39	35	30	32	36	42	49	58	50	46	44	50	49	40	40	56	48	48.9	
	Minimum	40	38	36	35	24	31	30	27	22	18	19	22	33	27	25	12	12	24	25	30	26	31	29	25	32	30	20	27	21	21	26.8	
Harrisburg.	Maximum	72	67	61	50	35	39	45	41	39	37	41	44	45	38	30	27	37	42	39	49	56	56	45	45	51	44	35	59	53	70	46.4	
	Minimum	54	49	49	35	30	31	38	29	29	30	26	37	36	29	18	16	16	34	35	35	29	43	37	34	39	32	29	28	36	46	33.6	
Hawley.	Maximum	64	73	62	57	42	37	39	37	36	34	31	37	47	42	27	24	31	36	34	42	38	52	44	40	50	45	45	47	50	64	43.7	
	Minimum	35	31	36	32	18	26	31	31	22	29	21	27	27	27	12	6	9	28	24	26	16	35	30	20	32	29	20	19	23	43	25.5	
Huntingdon.	Maximum	75	75	68	52	37	39	43	40	41	36	40	42	46	36	30	26	40	46	39	47	53	53	45	46	56	43	37	58	60	67	47.2	
	Minimum	44	48	42	32	26	31	37	33	27	29	25	32	32	29	15	15	9	31	33	33	22	40	29	30	40	23	26	22	26	41	30.1	
Johnstown.	Maximum	78	82	67	55	44	40	47	37	40	35	45	45	43	34	28	22	43															



51.05
NP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION. JAN 28 1934

G. S. BLISS.

PHILADELPHIA, PA.

VOL. XXXVIII.

DECEMBER, 1933.

No. 12.

GENERAL SUMMARY.

December was a generally gloomy month on account of excessive cloudiness, especially in the western portion of the State. At Erie the sunshine was only 8 per cent, and at Pittsburgh 30 per cent of possible. The first week was mild and the second week unseasonably cold, after which mild conditions prevailed up to include Christmas. The highest temperature for the month was recorded at many stations on the 24th. There was no snow on the ground for the Christmas Holiday, but heavy snows were general on the 26th, after which it was intensely cold for four days. The temperature started on an upward trend on the 31st. The highest temperature for the month, 74 degrees, has not been equalled in December since 1912. The lowest temperature, 22 degrees below zero, has been exceeded only five times in the last 46 years. The monthly range of 96 degrees was exceeded by one degree in 1914. It will seem, therefore, that it was a month of unusual extremes. Following the dry months of October and November, the precipitation for December rose nearly to the normal. The snowfall was a little more than the average, and fields were generally well covered during the coldest periods. Rains were barely enough to prevent a further diminution of the surface water supply, and streams generally remained at low stages throughout the month. Sleet and ice covered the highways in nearly all parts of the State on the 13th and 14th, delaying traffic and causing hundreds of accidents. With that exception the highways were mostly in good condition until after Christmas, when many were blocked by snow. The ground was practically free from frost about one-third of the month, and some plowing was reported. Despite the snow cover, the winter grains were not in as good condition as might have been expected or desired. They were generally reported as fair to good with the prevailing condition fair. Outdoor work of most kinds made as good progress as is usual for December. Temperatures were too low for concrete work about one-half of the month. Farmers were largely employed in butchering and in hauling and spreading of manure.

TEMPERATURE.

The mean temperature for the State, as shown by the reports from 92 stations, was 31.7°, or 0.6° above the December normal. The highest monthly mean was 38.2°, at Donora, and

the lowest 22.8°, at Gouldsboro. The highest recorded during the month was 74° at Marcus Hook on the 1st, and the lowest was -22° at Montrose on the 29th. The greatest daily range in temperature was 55°, at Ridgway on the 30th.

PRECIPITATION.

The average precipitation, from rain, sleet and melted snow, for the State, as deduced from the records of 146 stations, was 2.88 inches, which is 0.28 inch less than the normal for the month. The greatest monthly amount was 6.01 inches at Clymer, and the least was 1.30 inches at Montrose. The greatest amount recorded in any 24 consecutive hours was 1.41 inches at Pleasant Mount on the 16-17th. Snowfall averaged 8.7 inches, which is 0.5 inch above the normal for December. The greatest total snowfall for the month was 20.0 inches, at Corry; the greatest fall in 24 hours was 9.0 inches at George School, Gratersford and Lakeville on the 26th, and at Clymer on the 11th.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature				Precipitation					No. of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1888.....	32.5	+1.4	62	-10	3.14	-0.02	5.57	1.44	5.2	9	8	8	15
1889.....	39.6	+8.5	73	0	2.77	-0.39	5.05	0.85	0.9	12	11	9	11
1890.....	27.2	-3.9	59	-11	3.97	+0.81	9.68	1.72	29.4	12	7	8	16
1891.....	38.4	+7.3	68	-3	4.09	+0.93	6.53	2.00	0.3	10	12	8	11
1892.....	27.8	-3.8	70	-13	1.69	-1.47	4.37	0.40	5.7	9	7	9	15
1893.....	32.2	+1.1	70	-7	3.06	-0.10	6.07	1.41	9.4	12	6	11	14
1894.....	32.4	+1.3	66	-28	3.95	+0.79	5.93	2.27	11.9	10	10	9	12
1895.....	34.2	+3.1	70	-10	3.22	+0.06	6.55	1.40	2.3	7	10	9	12
1896.....	30.6	-0.5	67	-13	1.20	-1.96	2.62	0.40	5.4	6	10	9	12
1897.....	33.0	+1.9	73	-6	3.95	+0.79	6.25	1.28	9.6	12	6	8	17
1898.....	29.8	-1.3	68	-11	2.98	-0.18	4.79	1.31	8.7	10	10	8	13
1899.....	31.5	+0.4	73	-11	3.04	-0.12	6.00	1.18	4.4	10	10	11	11
1900.....	31.2	+0.1	65	-2	2.08	-1.08	4.16	0.40	3.9	7	8	9	14
1901.....	29.1	-2.0	77	-18	5.91	+2.75	10.26	2.62	7.6	11	7	9	15
1902.....	28.4	-2.7	68	-12	5.54	+2.38	8.51	1.97	17.3	14	7	7	17
1903.....	25.4	-5.7	60	-14	2.66	-0.50	4.83	0.92	13.2	9	8	9	14
1904.....	25.8	-5.3	71	-19	2.48	-0.68	3.71	1.32	14.4	11	7	7	17
1905.....	33.6	+2.5	65	-5	3.57	+0.41	5.48	0.95	2.2	8	10	7	14
1906.....	30.8	-0.3	67	-14	3.97	+0.81	7.08	1.69	7.6	14	5	5	21
1907.....	33.2	+2.1	68	-8	4.30	+1.14	7.89	1.85	9.8	12	7	8	16
1908.....	32.0	+0.9	74	-2	2.86	-0.30	4.61	1.26	9.4	10	9	8	14
1909.....	27.0	-4.1	71	-10	3.39	+0.23	8.50	1.19	12.7	8	9	8	14
1910.....	24.4	-6.7	68	-14	2.65	-0.51	4.41	0.64	16.0	12	8	6	17
1911.....	36.3	+5.2	70	5	3.27	+0.11	5.99	0.75	5.4	13	7	5	19
1912.....	34.4	+3.3	74	-8	3.27	+0.11	6.48	1.70	8.1	9	9	7	15
1913.....	34.2	+3.1	66	-7	2.63	-0.53	4.11	0.69	7.2	8	9	7	15
1914.....	27.3	-3.8	69	-28	4.63	+1.47	7.74	2.43	13.0	14	8	5	18
1915.....	29.4	-1.7	70	-7	4.06	+0.90	6.53	1.36	13.7	12	6	8	17
1916.....	29.7	-1.4	73	-12	3.07	-0.09	6.38	0.59	10.5	12	11	9	11
1917.....	21.5	-9.6	52	-28	1.78	-1.38	5.16	0.60	15.0	8	10	8	13
1918.....	36.6	+5.5	72	-1	3.38	+0.22	5.74	0.90	3.0	11	9	7	15
1919.....	25.3	-5.8	66	-23	2.61	-0.55	4.75	0.95	9.4	11	9	8	14
1920.....	33.4	+2.3	68	-7	3.28	+0.12	6.77	1.53	3.8	10	7	9	15
1921.....	31.6	+0.5	66	-11	2.59	-0.57	6.25	0.91	7.2	10	8	8	15
1922.....	31.5	+0.4	69	-9	2.75	-0.41	4.55	1.19	7.1	10	10	8	13
1923.....	39.6	+8.5	71	1	4.99	+1.83	8.55	2.42	2.4	14	9	7	15
1924.....	29.8	-1.3	69	-23	2.13	-1.03	4.42	0.56	3.6	11	7	7	17
1925.....	30.7	-0.4	62	-15	1.72	-1.44	3.93	0.69	3.8	10	8	7	16
1926.....	27.3	-3.8	62	-20	2.58	-0.58	4.61	0.90	10.0	12	8	7	16
1927.....	32.7	+1.6	73	-6	4.41	+1.25	8.93	2.16	4.5	13	9	6	16
1928.....	34.4	+3.3	68	-2	1.16	-2.00	2.57	0.28	0.9	6	13	7	11
1929.....	32.2	+1.1	70	-9	2.77	-0.39	4.95	1.21	10.0	12	7	6	18
1930.....	30.0	-1.1	59	-15	2.29	-0.87	4.06	0.82	6.8	10	6	7	18
1931.....	38.1	+7.0	70	-1	2.85	-0.31	5.49	1.27	1.1	11	10	6	15
1932.....	33.3	+2.2	72	-14	2.19	-0.97	4.14	0.51	7.4	12	10	6	15
1933.....	31.7	+0.6	74	-22	2.88	-0.28	6.01	1.30	8.7	12	9	7	15
Period.....	31.1	.....	77	-28	3.16	.....	10.26	0.28	8.2	10	8	8	15

Climatological Data for December, 1933

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches				No. of days			Prevailing direction of wind	Observers			
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more			Clear	Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	21	30.0	-2.2	53	22†	-2	30	39	1.82	-1.61	0.40	9.9	16	13	9	9	sw.	John A. Frick.
Ardmore	Blair	1,615	46	31.8	+2.1	67	24	-6	29	40	3.61	+1.19	0.89	9.2	12	20	8	3	w.	F. E. Rooney.
Ardmore	Montgomery	350	1	33.2	-0.8	59	22†	-3	30	31	3.14	-0.17	1.22	8.2	12				nw.	H. G. Balderston.
Bedford	Bedford	1,060	1	33.0		67	24	-5	27	39	2.70		0.69	10.0	7	14	3	14	nw.	Charles C. Lee.
Bellefonte	Center	1,050	25	28.1	-2.4	64	24	-6	29	35	2.35	-0.33	0.45	7.2	11	4	8	19	w.	U. S. Weather Bureau.
Bethlehem	Northampton	364	48	31.4	-1.9	63	1	-3	29	33	2.00	-1.32	0.38	8.4	12	13	3	15	nw.	Lehigh University.
Carlisle	Cumberland	467	67	31.8	+0.3	60	1†	-5	28	32	2.06	-0.78	0.68	8.5	9	15	3	13	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	37	30.9	-0.6	62	24	-2	29†	30	1.89	-0.90	0.51	8.0	9	14	3	14		W. L. Gearhart.
Center Hall	Center	1,272	37	28.6	-1.1	55	22	-5	29	27	2.36	-0.17	0.64	8.5	8	12	4	15		S. W. Smith.
Chambersburg	Franklin	580	34	33.2	+0.2	62	23	-1	28	33	2.38	-0.25	0.87	11.0	11	9	8	14	sw.	William B. Spear.
Clearfield	Clearfield	1,120	26								3.27	+0.31	0.69	12.0	13	7	15	9	w.	E. W. Hess.
Coatesville	Chester	380	46	32.2	-0.5	62	24	-1	30	31	2.31	-1.60	0.73	7.8	12	14	0	17	nw.	Howard L. Pyle.
Colebrook	Lebanon	560	22	29.7	-1.9	55	25	-5	28	30	1.57	-1.66	0.58	6.7	10	13	4	14	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	46	29.7	+0.6	59	24	-14	29	30	3.39	+0.16	0.80	7.5	13	8	15	nw.	T. B. Lloyd.	
Ephrata	Lancaster	380	41	32.7	+0.5	59	24	0	28†	30	1.85	-1.37	0.75	7.0	10	13	4	14	ne.	Ira J. Keath.
Freeland	Luzerne	1,970	40	26.6	-0.5	60	24	-13	29	44	2.60	-0.86	0.73	12.6	19	8	9	14	nw.	Theo. Reichmann.
George School	Bucks	190	27	31.7	-1.3	62	1	-5	28	38	2.78	-0.59	1.07	10.9	14	11	7	13	sw.	Prof. N. W. Swayne.
Gettysburg	Adams	553	60	34.2	+2.0	63	1	3	28†	33	1.44	-1.77	0.66	8.5	11	12	7	12	nw.	Dr. Henry Stewart.
Gordon	Schuylkill	840	29	28.3	-0.7	62	24	-10	28	40	2.12	-1.70	0.40	11.0	13	15	4	12	w.	Sallie M. Johnson.
Gouldsboro	Wayne	1,875	18	22.8		50	1	-19	29	39	3.22	+0.39	1.15	11.0	9	8	10	13	sw.	Gustav Holtz.
Hamburg	Berks	535	40	29.6†	-2.1	55†	19†	-2†	28	33†	1.63	-1.96	0.30	6.0	10	10	11	10	w.	State Sanatorium.
Hanover	York	600	29	35.2	+1.0	70	24	4	29†	40	1.81	-1.24	0.78	7.0	8	10	8	13	n.	Thomas Y. Cooper.
Harrisburg	Dauphin	361	64	32.8	+0.1	57	22	2	29	24	1.56	-1.46	0.56	7.2	9	6	6	19	w.	U. S. Weather Bureau.
Hawley	Wayne	900	15	25.9	-2.9	50	1†	-14	29	35	3.22	+0.34	0.75	13.8	14	14	4	13	w.	Mrs. Della M. Pennell.
Holtwood	Lancaster	200	18	33.0	-1.2	52	1†	7	29†	20	2.04	-0.32	0.43	7.0	13	12	4	15		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	46	32.3	+0.7	68	24	-7†	28	41†	2.83	-0.10	0.65	8.5	11	7	10	14	nw.	Prof. Paul R. Yoder.
Hyndman	Bedford	977	21	34.8	+2.4	71	24	-3	28	41	2.89	+0.33	0.69	9.7	9	11	4	16		Horace A. Sheavly.
Kylertown	Clearfield	1,637	3	32.6		61	24†	-2	27	37	2.49		0.81	8.9	15	7	14	10	w.	Bureau of Plant Industry.
Lancaster	Lancaster	255	46	27.6	-5.8	54	22	-3	29	32	2.74	-0.38	1.05	8.5	7	14	6	11	nw.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	36	30.0†	+1.3	61†	24	-11†	29	38†	1.58	-0.42	0.50	8.0	9	9	8	14		C. P. Darling.
Lebanon	Lebanon	469	49	30.8	-1.2	57	22	0	29	32	1.67	-1.73	0.58	7.2	13	11	9	11	sw.	Lebanon Valley Gas Co.
Lewisburg	Union	450	57	31.0	+0.9	56	24	-2	28	32	2.30	-0.82	0.80	9.5	10	7	8	16	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	43	31.6	-0.6	59	1†	-2	29	29	2.58	-0.38	0.58	10.5	15	3	15	13	sw.	Joseph Beaver.
Lykens	Dauphin	680	18	29.8	-1.2	54	23	2	29	29	1.68	-1.11	0.50	8.0	9	7	11	13	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	6			74†	1	8†	29	33†	2.06		1.19	3.1	10	14	3	14	sw.	Sun Oil Co.
Mauch Chunk	Carbon	600	44	30.6	0.0	63	24	-6	29	35	2.21	-1.79	0.72	10.7	8	15	1	15	nw.	R. K. Wintermute.
Millintown	Juniata	445	29	33.0	+1.9	62	4	0	28†	34	2.37	-0.34	0.58	7.4	8	11	14	6	w.	W. H. Manbeck Co.
Montrose	Susquehanna	1,658	29	25.0	-1.1	53	24	-22	29	46	1.30	-1.22	0.55	8.0	5	3	13	15	s.	Silas Jagger.
Mt. Pocono	Monroe	1,720	27	25.6	-0.2	60	24	-15	29	40	2.25	-1.33	0.60	11.0	12	8	6	17	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	21	27.4	-0.6	53	1	-10	29	33	2.42	-0.42	0.66	9.0	10	12	5	14	n.	H. O. Hacker.
Neshaminy Falls†	Bucks	60	44	30.6	-1.1	59	22†	-8	28	40	2.53	-0.74	0.93	7.6	11	12	7	12	w.	Philadelphia Sub. Water Co.
Palmerton	Carbon	398	15	29.4		54	22	-4	29	33	1.70	-0.65	0.63	10.3	12	12	5	14	sw.	New Jersey Zinc Co.
Philadelphia	Philadelphia	114	62	36.2	-0.1	61	22	3	30	28	2.52	-0.91	1.01	5.1	11	8	7	16	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	9	35.2		59	22	0	30	30	2.46		1.04	6.8	11	10	7	14		Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	17	34.4	-0.8	58	24	1	30	26	2.68	-0.42	0.98	6.2	16	1	16	14	ne.	Commandant, Navy Yard.
Phoenixville	Chester	100	23	33.0	-0.1	68	1	-6	28	32	2.65	-0.47	0.98	7.8	9	10	11	10	sw.	Philadelphia Sub. Water Co.
Quakertown	Bucks	496	48	30.2	-1.0	60	1	-7	28	32	2.14	-1.30	0.72	8.5	12	9	10	12	sw.	John E. Benner.
Reading	Berks	514	63	33.3	+1.1	59	24	0	30	30	1.91	-1.65	0.77	8.5	10	6	10	15	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	39	28.8	-1.9	62	24	-10	29	27	2.15	-0.87	0.46	13.7	13	3	10	18	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	43	31.8	+0.3	58	4	-5	29	35	1.83	-1.21	0.64	9.0	9	6	10	15	w.	Dr. George E. Fisher.
Shawmont†	Philadelphia	51	37	33.8	-1.3	69	1	-1	30	32	2.81	-0.76	1.02	9.0	11	7	9	15	nw.	W. S. Guiles.
Shippensburg	Cumberland	660		32.9		65	1	3	28†	29	2.27		0.78	10.2	12	9	4	18	sw.	State Teachers College
State College	Center	1,217	49	31.6	+1.9	65	24	-6	29	39	3.27	+0.65	0.75	7.0	12	7	12	12	w.	C. A. Kern.
Stroudsburg	Mourne	500	19	28.9	-0.8	65	24	-7	28	54	2.75	-0.58	0.85	10.7	10	9	4	18	nw.	State Normal School.
Towanda	Bradford	754	39	28.7	-0.1	61	24	-10	29	40	2.42	+0.18	0.72	7.9	14	4	7	20	w.	Mrs. M. Ordella Parks.
Wellsboro	Tioga	1,419	63	27.3	-0.6	58	24	-13	29	39	2.29	-0.17	0.68	12.0	10	9	12	10	nw.	George W. Hill.
West Chester	Chester	455	84	33.5	+0.4	66	1	0	30	34	3.06	-0.84	0.87	9.5	10	14	3	14	w.	Joseph W. Belt.
Williamsport	Lycoming	521	47	30.4	-0.3	56	25	-4	29	32	2.17	-0.75	0.45	8.2	14	13	5	13	w.	Miss Veronica E. April.
York	York	400	45	32.8	-0.3	64	1	-7	29	35	1.91	-1.02	0.65	8.0	12	11	9	11	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	41	36.4	+3.4	67	24	1	27	35	2.69	-0.02	0.65	6.5	12	9	2	20	sw.	U. S. Engineer.
Brookville	Jefferson	1,173	43	29.0	-1.1	62	5	-14	29	35	4.02	+1.07	0.79	9.0	13	7	6	18		John Fawcett.
Butler	Butler	1,077	20	32.6		63	5	-9	28	35	2.93	+0.24	0.73	9.5	10	14	1			

Daily Precipitation for December, 1933

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh			.02	.20	.02	.02	.15				.09			.07	.10	.12	.07	.40		.01	.39					T.	.38	.02	.13				.01	1.82
Altoona	Juniata		.19	.21							.25				.07	.10	.53	.65	.24		.47	.12					.38	.42	.08				T.	3.61	
Ansonia|||	W. Br. Susq.			.18				T.		T.		.05	.01		.03	.17				.37		.02	.18		.05		.38	.19	.11				T.	1.74	
Ardmore	Lower Del.		.03	.05		.09				.03		.08			.05	.02	.18	.08	.28		1.03						1.22							3.14	
Baker's Summit	Juniata		.40	.13							.29				.03	.19	.30	.78			.41						.11	.56					.01	3.21	
Bedford	Juniata		.15	.29		T.					.30				T.	.40	.69				.36						.51							2.70	
Bellefonte***	W. Br. Susq.		.19			T.				T.	T.	.12		.03	T.	.23	.22	.45			.35	T.			.39	.32				T.	T.	.02	.03	2.35	
Bethlehem	Lehigh		.01	.23		.17					.06				T.	.03	.08	.18	.31	.14		.27	.14				.60							2.10	
Blosserville||	Lower Susq.										.30						.40	.55	.26		.10	.15				.50	.05						2.68		
Buffalo Mills	Juniata			.43							.24					.40	.55	.26			.10	.15				.68								2.06	
Carlisle	Lower Susq.		T.	.20	.02						.21				.04	T.	.09	.10	.43		.22				T.	.18	.50	.51						1.89	
Catawissa||	N. Br. Susq.		.18	T.	T.						.14			.04	T.	.09	.10	.43			.22					.50	.64							2.36	
Center Hall	Susquehanna			.28						.01	.20	.06						.45			.13						.87							2.38	
Chambersburg	Potomac		.02	.23		.02					.27				T.	.03	.03	.23	.47	.08															
Clearfield	W. Br. Susq.	T.		.37		T.					.20	.03			.07	.20	.59	.04	.03		.03	.69	T.			.37	.25	.40						3.27	
Coatesville	Lower Del.		.01	.04		.05					.01			.10	.08	.05	.11	.41	.02		.70						.73							2.31	
Colebrook	Lower Susq.		T.	.14		.06					.11				T.	.02	.05	.10	.23	.03		.25	T.				.58							1.57	
Conshohocken	Schuylkill																																		
Cresson||	Juniata		.21	.15		.04					.13				.63		.80				.64				.47		.55							3.76	
Doylstown	Lower Del.			.16		.07				T.	.13			.02	.03	.07		.33			.66	.03				1.08								2.58	
Emporium	W. Br. Susq.		.18	.11		.02					.15	.05	T.		.01	.03	.12	.30	.08		.66	T.	.10	T.	.36		.75							3.39	
Ephrata	Lower Susq.			.07		.07					.08				.19	.20	.32	.06	.47	.65	.34	T.	*			.36	.16	.54						1.85	
Forest City	N. Br. Susq.			.31	.09						.17	.02			.10	.16	.51	.01	.40		.01	.30		T.		.15	.44	.29		.01				2.60	
Freeland|||	Lehigh		.03	.18	.05	.05	.06				.17	.02			.10	.16	.51	.01	.40		.01	.30		T.		.15	.44	.29		.01				2.31	
Galeton	W. Br. Susq.		.05	.10							.12		T.		.03	.08	.06	.12	.27	T.	.80	.03		.16		.40		1.05	.02					2.78	
George School	Lower Del.		T.	.17	T.	.09	T.	T.	.02		.03			.03	.08	.06	.12	.27	T.	T.	.80	.03		.16		.40		1.05	.02					2.78	
Gettysburg	Potomac		T.	.11	.01	.03					.14				.01	.01	.13	.16	.02		.16	T.				.66								1.44	
Girardville|||	Lower Susq.		.04	.10	.02	.02	.05				.10	.03	.04	.01	.06	.26	.48				.24					.07					.01	.11		2.16	
Gordon	Lower Susq.			.30	.02	.08								.10	.11	.22	.31	.16			.09	.09				.04	.40	.20						2.12	
Gouldsboro||	Lehigh			.23			.25				.27				.09		.35	.25			.58	.61					.36	.27						3.22	
Graterford	Schuylkill			.02		.22					.03			.01	.04	.07	.02				.58	.61					.72							1.92	
Hamburg	Schuylkill		*	*	*	*			.56		.20				.10	.15	.10				.22						.30							1.63	
Hanover	Lower Susq.	T.	T.		.09						.17				.07	.12	.29				.28	.01				.78								1.81	
Harrisburg***	Lower Susq.		.18	.01	T.	T.				.03	.08				.04	.12	.35				.19	T.			T.	.56								1.56	
Hawley|||	Upper Del.		.02	.29	.04		.07				.12	.05			.13	.36	.68				.62		.05		.04	.12	.63							3.22	
Hollisterville	Upper Del.		.15	.23							.16	.14			.20	.05	.28	.03	.45		T.	.58				.02	.05	.78						3.12	
Holtwood||	Lower Susq.		T.	.09	.01	.04					.08	.04			.21	.25	.06		.43	.18						.35	.22							2.04	
Huntingdon	Juniata		.20	.06							.23				.15	.34	.65	.02			.33					.19	.64				.02	T.		2.83	
Hyndman	Potomac		.27	.16							T.	.24			T.	.08	.33	.69	.17		.26					.69								2.89	
Kylertown	W. Br. Susq.		.12	.03		.02					.15		.04		.03	.22	.51	.09			.10	.09				.49	.32				.09	.19		2.49	
Lakeville|||	Upper Del.			.03	.40	T.	.13				.15	.03	T.	.20	.01	.41	.03	.71			.06			.05		.19	.10	.58	T.					3.65	
Lancaster	Lower Susq.		.05		.15						.20					.65					.49					1.05								2.74	
Lansford|||	Lehigh			.24		.01	.01				.14				.08	.08		.38			T.	.22	T.			.01	.17	.47						1.81	
Lawrenceville	N. Br. Susq.		.05	.10		T.					.20				.10	.38		.10	.38		.05	.10	T.				.50	T.						1.58	
Lebanon	Lower Susq.		.18		.01	T.					.08	.09			.04	.04	.09	.07	.24		.10	.14			T.		.80							1.67	
Lewisburg	W. Br. Susq.		T.	.10							.16				.03	.20	.20	.44	.02		.30	.05				.80								2.30	
Lock Haven	W. Br. Susq.		.07			.10					.14				.05	.03	.20	.16	.36	.06	.30	.05				.58	.40	.05						.03	2.58
Lykens	Susquehanna		.20	.02	T.	T.				.05	.18	T.	T.		.03	.20	.10	.38			.22	T.				.50								1.68	
Marcus Hook	Lower Del.		.05						.02		.04				.06	T.	*	*	.45		*	1.19				.25								2.06	
Matamoras	Upper Del.			.41	.06		.27				.08				.20	.37	.05	.50			.31					.07	.39							3.20	
Mauch Chunk	Lehigh			.29		.07					.16				.13	.11		.42			.23	T.				.29	.56							2.21	
Mifflintown	Juniata		T.	.30							.17				.16		.58				.1														

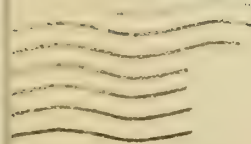
Daily Precipitation for December, 1933—Continued from page 58

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage																																		
Beaver Dam|||	Ohio			.02	.20							.14				.10	.33	.02	.34		.18	.65				.31	.35	.05					2.69	
Beaver Falls|||	Beaver		T.	.25			T.					.24	T.			.02	.38		.30		.10	.71				.07	.30	.09					2.46	
Brookville	Allegheny			.44								.23			.07		.47		.79	.46	.47					.61	.25	.15		T.		.08	4.02	
Butler	Ohio			.37			T.					.24				.45	.49				.73					.02	.19	.02			.21	.21	2.93	
Chambersville	Allegheny			.13	.47							.28	T.	T.	.02	.22	1.05	.88	.11		.95	.09				.69	.28	.03			T.	.02	5.22	
Clairton	Monongahela			.03								.15	.01			.61	.25	.50			.45					.63	.30				T.		2.93	
Claysville	Ohio			.09	.35	.01	.03				T.	.20			.01		.13	.88	1.24	.04		.84	.02			.06	.07	.30	.02		T.	T.	.10	4.39
Clymer||	Conemaugh		.08		.56		.08					.80				.10	.92	.90	.15		1.02		.60			.30				T.		.50	6.01	
Confluence|||	Youghiogheny			.40			.04					.45	.05			.25	.62	.49	.35		.33					.45	.39	.32					4.14	
Corry	Allegheny			.38	.09		.03		.02	.03		.15	.04	.03		.28	.58	.23	.02		.84	.15	.12	.06	.23	.25	.41	.19	.02		.02	.22	4.39	
Coudersport	Allegheny			.29							.13		.01	.02	.03	.26	.05	.39			.50		.05			.40	.04				.05	.43	2.65	
Derry	Conemaugh			.11	.20		.03					.12				.18	.66	.98	.02		.56	.05			.03	.43	.43	.04				.22	3.86	
Donora|||	Monongahela		T.	.39			T.					.19			T.	.14	.58	.47	.43		.27	.28				.11	.35	.10			T.		3.31	
Ebensburg	Conemaugh			.09	.33							.24				.20	.70	.72	.43		.64	.10				.44	.57						4.46	
Elk Lick	Youghiogheny			.30	.22							.70				.65	.70	.22			.90						.40	.20	.20				4.49	
Franklin|||	Allegheny			.06	.74							.18	.03			.08	.35		.21		.05	1.00				.16	.27	.17		T.		.11	3.41	
Greensboro	Monongahela			.01	.19							.16	T.		.04	.04	.73	.16	.56		.32	.18				.22	.34	.13					3.08	
Greensburg	Youghiogheny			.13	.28		.02				T.	.28		.03	T.	.15	.82	1.10	.05		.76	.03			T.	.41	.36	.15			T.	.16	4.73	
Greenville	Beaver			.18	.12						T.	.13	.10			.05		.45			.60	.07	.07		.38		.20	.08	T.		T.	.25	2.68	
Grove City	do			.17	.56							.05	.01			T.	.09	.47	.42	.01		.71	.18			T.	.61	.09	T.			.05	3.63	
Herr's Isl. Dam|||	Ohio		T.	.20								.25			T.		.82	.24	.40		.33	.72				T.	.58	.23		T.			3.47	
Irwin	Monongahela			.18	.08							.25			T.	.18	.55	.64	.03		.62	.04			T.	.33	.43	.09			T.		3.42	
Johnstown	Conemaugh			.15	.24	.03	.03				T.	T.	.24		T.		.29	.73	1.29	.11	T.	.77	.03			.20	.18	.62	.11		T.	.04	5.06	
Kane (near)††	Allegheny			.08	.48		T.	.01			T.	.24				T.	.26	.52	.11			.76		.07			.50						3.03	
Kregar|||	Youghiogheny		.05	.40		.03			T.			.11	T.			T.	.14	.68	.45	.71		.06	.45			.18	.20				T.	.11	3.98	
Lake Lynn|||	Monongahela			.37		.05	T.					.20			.08	.07	.60	.19		.48		.20	.23			.30	.12	.22					3.11	
Linesville|||	Beaver		T.	.79	T.						T.	.01	.14	.01		.14	.51		.28		T.	.68				.04	.23	.19	T.	.04		.19	3.26	
Lock No. 2|||	Ohio			.01	.23							.25	T.			T.	1.00	.15	.29		.05	.74			.01	.37	.30	.04					3.44	
Lock No. 4|||	Monongahela			.01	.25		.02					.22				.01	.12	.59	.19	.48		.03	.52			.23	.33	.13		.01			2.14	
Lock No. 5††|||	Allegheny		T.	.42								.20	.01			T.	.08	.63	.11	.46		.04	.89			.37	.23	.13					3.57	
Lycippus	Conemaugh			.50	.10		.03					.17			.05	.80	.62	.09			.40	.05					.85				T.	T.	3.66	
McKeesport|||	Monongahela			.01	.39		.01					.01				.34	.73	.31	.55			.45				.33	.02	.15					3.30	
Meadville	Allegheny			.17	.37				T.	.02		.13	T.	T.		.19	.28	.26			.64	.20			.12	.22	.05	.05			T.	.27	2.97	
Mosgrove	do			.46	.02							.25	.01			.20	.50	T.	.69		.08	.76	T.			.32	.19	.15		T.		.04	3.67	
Mount Lebanon	Ohio			.03	T.						T.	.20	.01		T.	.03	.85	.84	T.		.75				.25	.32					T.	.02	3.30	
Natrona|||	Allegheny		T.	.35								.15	.03		T.	.09	.80	.11	.50		.03	.91				.48	.04	.18		.01			3.68	
New Castle|||	Beaver			.12	.60	.02					T.	.20	.04	.01	T.		.65	.02	.65	T.	.07	.70		T.		.23	.31	.08		.01			3.71	
Newell	Monongahela			.01	.35							.20	.10			.03	.60	.30	.30	.10		.30	.20			.50	.05					.50	3.24	
Parkers Landing|||	Allegheny			T.	.58	T.						.20	.10			T.	.94		.46			.07	.81			.20	.30	.20			T.	.10	3.96	
Pennline|||††	Beaver		.04		.65					.03	T.	.13				.11	.93		.25				.55			.06	.20				.06	.15	.70	3.86
Pittsburgh***	Ohio			.15	T.					T.	.23	.02			T.		.44	.32	.72			T.	.81	T.		.15	.53			T.		.05	3.42	
Punxsutawney|||	Allegheny			.58	T.							.25	.10			.37	.67	T.	.64		T.	1.00				.18	.23					.29	4.31	
Ridgway	do			.32	T.		T.	T.				.13		.02		T.	.01	.52		.53		.89			.01	.16	.22				.04	.23	3.08	
Saltsburg|||	Conemaugh			T.	.13		T.					.25	T.			.07	.85	.34	.40		.02	.54				.21	.24	.25					3.30	
Sharon|||	Beaver			.11	.22							.20	T.			.12		.04	T.	.04	.44					.10	.30	.10					1.67	
Smethport	Allegheny			T.	.85	T.		T.				.05				T.	.62	.42	T.	.91						.55	.38	.25					4.03	
Somerset	Youghiogheny			.19	.18							.31		.04	.01	.22	.58	.94	.08		.52	.04				.39	.41	.07				.02	4.00	
Springdale|||	Allegheny		T.		.01	.35						.24	.01			.08	.83	.28	.51		.02	.90			T.	.50	.20	.08			T.	.01	4.02	
Uniontown	Monongahela			.06	.15		.07				T.	.03		.03	.07	.06	.72	.80	.06		.54	.02			T.	.67	.45	.02				.02	3.77	
Unity Reservoir††	Youghiogheny			.16	.36		.02					.30	T.	T.		.16	.85	1.17	.10		.66	.08			T.	.50	.50	T.			T.		4.86	
Vandergrift††	Conemaugh			.29	.18							.12	.02			.79	1.10				.93						.80						4.23	
Warren	Allegheny			.24	.12		.05	.06		.03		.15	.14			.20	.36	.15	.03		.35	.47	.07	.05	.50	.28	.35	.19	.02	.03	.04	.20	3.93	
Waynesburg	Monongahela			.40								T.				.39	.62	.90	.04		.42					.67	.60					.06	4.10	
Westford|||	Beaver			.50	.03							.02	.04	.02		.28		.27			.54				.15	.12	.17	.11	.07	.08	.25	.90	3.55	
West Newton|||	Youghiogheny			T.	.24	T.						.23	T.				.75	.31	.61		T.	.64				.06	.29	.20					3.33	
Lake Drainage																																		
Erie***	Lake Erie		T.	.33	.04		.07		.06	T.	T.	.06	.07	.04	.04	.24		.06				.80	T.	.10		.04		.40	.01	.01	.01	.04	.25	2.67

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau

Daily Temperatures for December, 1933

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum..	44	48	47	45	43	48	43	50	32	31	33	22	23	32	34	42	44	45	40	42	43	53	47	53	40	36	23	24	4	19	38	37.7	
	Minimum...	39	19	24	39	36	36	26	28	31	12	14	13	11	15	14	15	32	34	24	26	32	33	32	33	36	23	13	2	-1	-2	22.2		
Altoona.....	Maximum..	46	50	47	49	54	49	42	50	41	29	32	20	27	34	53	43	55	40	39	39	50	55	67	63	31	28	21	17	16	52	40.6		
	Minimum...	33	26	40	41	33	40	30	20	10	20	5	4	9	21	32	36	36	26	31	34	31	29	36	26	23	1	-2	-6	3	12	22.9		
Bedford.....	Maximum..	57	47	53	53	57	48	46	50	46	30	36	23	22	32	39	49	47	57	39	43	43	53	64	67	64	32	28	26	21	17	53	43.3	
	Minimum...	35	18	35	45	29	36	21	25	24	16	16	8	2	9	25	34	39	37	25	36	35	34	28	29	25	25	-5	-4	0	5	17	22.7	
Bellefonte.....	Maximum..	42	47	43	47	49	45	41	49	37	28	31	18	21	26	36	52	42	52	36	39	40	48	52	64	43	28	15	20	6	16	33	37.0	
	Minimum...	19	18	37	33	32	30	23	30	14	10	12	7	4	8	24	25	31	24	20	30	33	30	26	29	25	15	-3	-5	-6	1	16	19.2	
Brookville.....	Maximum..	45	39	48	55	46	62	39	42	48	29	32	22	19	26	34	53	48	53	41	42	42	44	54	59	58	33	33	24	20	21	41	40.4	
	Minimum...	28	13	17	31	31	34	25	26	14	4	18	-4	-2	13	20	32	25	28	20	27	31	26	24	29	24	22	-1	-11	-14	8	16	17.7	
Butler.....	Maximum..	41	45	58	57	63	61	42	47	46	32	29	17	23	33	60	60	59	50	41	44	44	46	60	54	40	37	30	19	19	24	52	43.0	
	Minimum...	32	16	40	39	40	32	25	33	16	13	15	0	0	22	25	37	39	30	24	30	34	30	28	33	24	22	-2	-9	-6	4	22	22.2	
Carlisle.....	Maximum..	60	45	48	58	50	47	47	52	40	30	30	27	24	30	33	43	40	49	46	39	52	60	58	51	44	32	23	24	20	15	33	40.3	
	Minimum...	41	18	34	36	35	39	23	31	25	14	20	12	7	15	14	30	37	35	24	30	36	28	28	36	32	23	11	-5	0	4	13	23.4	
Catawissa.....	Maximum..	49	49	48	52	51	46	42	51	42	28	32	22	24	34	40	44	43	46	40	39	46	52	52	62	52	41	27	25	10	14	35	39.9	
	Minimum...	26	21	32	40	40	35	25	26	12	10	16	11	9	15	20	34	20	35	22	28	31	32	28	39	30	23	10	4	-2	2	10	21.9	
Chambersburg.....	Maximum..	57	46	48	58	54	48	41	53	41	32	34	23	30	31	34	44	42	52	42	51	59	62	57	51	36	28	22	22	20	41	42.0		
	Minimum...	37	22	35	42	34	36	22	23	28	16	18	10	8	15	22	30	33	36	26	33	36	33	29	39	35	25	9	-1	3	5	15	24.3	
Chambersville.....	Maximum..	49	49	58	56	62	59	40	46	42	29	33	17	27	29	59	58	59	60	48	47	40	47	61	62	60	31	29	18	15	35	51	44.4	
	Minimum...	31	15	41	41	39	33	24	29	17	10	12	0	-1	11	24	40	32	34	26	37	32	30	25	50	24	23	-2	-10	-9	4	33	22.4	
Claysville.....	Maximum..	52	52	59	57	65	60	44	48	43	33	36	24	24	32	62	60	62	58	52	52	40	51	64	63	59	34	28	22	18	39	54	46.7	
	Minimum...	28	21	44	39	43	33	20	30	16	17	14	1	8	20	29	43	41	36	31	38	34	31	31	52	26	27	-1	-2	5	6	38	25.8	
Clearfield.....	Maximum..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coatesville.....	Maximum..	57	49	52	54	42	48	45	52	42	26	35	23	25	31	33	50	40	49	41	36	45	56	53	62	56	31	27	25	17	14	42	40.6	
	Minimum...	31	21	35	41	36	40	28	26	19	12	18	12	11	20	20	32	35	36	26	38	35	30	35	31	29	20	10	0	-1	14	23.7		
Corry.....	Maximum..	40	40	52	47	56	45	40	43	32	27	27	17	22	28	52	54	48	52	42	39	35	34	52	53	52	28	25	13	12	30	45	38.1	
	Minimum...	23	17	36	40	41	31	25	30	10	5	10	10	12	15	22	31	22	28	26	28	26	26	45	18	17	3	-1	-8	-2	29	20.6		
Coudersport.....	Maximum..	30	45	46	45	53	52	37	41	38	21	31	19	19	23	31	47	39	52	40	39	33	38	40	56	50	29	23	16	13	12	42	35.5	
	Minimum...	27	12	34	40	39	33	24	26	14	0	12	8	11	13	10	29	20	31	17	19	29	27	23	37	21	18	0	-4	-16	-4	11	18.1	
Emporium.....	Maximum..	42	45	44	47	58	48	40	46	38	26	29	20	25	29	36	47	40	52	35	40	42	49	59	53	28	26	20	11	21	43	38.0		
	Minimum...	23	15	34	44	40	36	30	28	15	6	14	10	13	18	24	30	28	30	20	24	33	33	29	30	26	24	2	-5	-14	4	20	21.4	
Erie.....	Maximum..	41	48	60	49	57	42	42	42	23	29	33	22	26	28	61	44	56	40	43	41	36	38	57	57	29	27	15	18	7	39	54	38.8	
	Minimum...	26	26	46	41	42	33	30	22	16	14	15	17	19	19	28	28	28	31	32	32	32	30	29	21	15	7	7	0	6	89	24.6		
Franklin.....	Maximum..	39	43	56	49	60	49	43	48	47	35	22	20	27	35	60	59	57	40	39	44	35	42	57	57	40	29	20	21	13	42	55	41.4	
	Minimum...	33	17	17	38	42	37	27	27	16	11	14	10	9	13	22	34	22	32	22	22	33	30	25	25	24	20	1	0	-3	0	11	20.4	
Freeland.....	Maximum..	45	48	49	45	40	41	40	49	36	20	23	17	19	24	28	47	40	43	42	37	37	46	44	60	48	25	17	20	13	4	48	35.3	
	Minimum...	19	15	36	39	31	33	22	27	8	8	10	4	8	12	13	27	33	30	24	27	29	27	26	33	25	15	2	-2	-13	-10	4	18.0	
Gettysburg.....	Maximum..	63	46	54	56	53	49	44	54	45	32	36	25	25	32	34	47	44	52	41	44	46	58	60	62	57	39	31	28	23	18	39	43.1	
	Minimum...	41	22	34	45	37	43	25	23	29	15	22	10	10	16	22	33	38	38	27	35	34	33	29	35	24	10	3	3	3	16	25.4		
Greensburg.....	Maximum..	49	50	57	55	64	60	42	49	44	32	36	20	31	32	63	59	62	57	48	49	40	50	63	63	60	33	28	21	17	38	54	46.0	
	Minimum...	31	21	44	43	40	33	25	33	19	17	15	3	7	16	29	40	38	37	30	38	35	31	31	48	26	25	-1	-3	-2	6	37	25.5	
Grove City.....	Maximum..	43	44	57	54	58	54	45	45	41	27	15	27	15	27	30	58	58	52	52	44	44	43	40	52	53	54	26	25	18	15	37	49	41.5
	Minimum...	30	22	33	40	42	31	26	34	20	13	11	4	11	20	28	35	34	33	33	40	30	30	30	49	24	22	-1	1	-2	4	35	24.6	
Hamburg.....	Maximum..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Harrisburg.....	Maximum..	48	46	48	54	45	48	43	52	42	31	34	24	26	28	33	46	40	51	41	37	46	57	57	56	55	32	26	25	12	18	37	39.9	
	Minimum...	32	26	39	40	39	39	33	30	18	16	17	14	16	22	25	31	35	32	27	33	35	33	34	36	32	21	9	8	2	4	15	25.6	
Hawley.....	Maximum..	50	47	45	41	37	42	40	46	39	22	24	18	23	27	20	48	39	38	44	38	35	44	38	45	50	29	21	19	16	7	39	34.5	
	Minimum...	26	13	33	37	31	35	23	22	13	6	8	3	6	14	15	20	26	31	14	21	30	31	27	30	26	16	6	-6	-14	-11	4	17.3	
Huntingdon.....	Maximum..	53	45	46	52																													



CLIMATOLOGICAL DATA.

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PENNSYLVANIA SECTION,

G. S. BLISS.

PHILADELPHIA, PA.

JUN 28 1934

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No. 13.

GENERAL SUMMARY.

The year as a whole was moderately warm, while the precipitation averaged about seven per cent above the normal. The only months that gave a temperature deficiency were March, October and November. Seven months showed deficiencies in precipitation which were more than balanced by the excess amounts of the other five months. January was the warmest of record with the single exception of 1932, and its snowfall was only about one-sixth of the January average. Frost did not penetrate the ground deeply at any time, and the winter grains were not damaged despite the lack of snow cover. Severe wind storms occurred on the 26th and 28th, and did much damage to trees and wires. Conditions were unusually favorable for outdoor work. February was moderately warm excepting a four-day period which began with a cold wave on the 8th. Precipitation was generally deficient excepting the Delaware drainage, where heavy snows occurred on the 11th under the influence of a coast storm. The heaviest snows were on the Pocono Plateau, where the ground was snow covered nearly the whole month. March more than lived up to its reputation for being a windy and blustery month. Its precipitation was the heaviest for any March of record, while a moderate temperature deficiency was added to the other disagreeable features. Winter grains suffered a heavy depreciation, and outdoor work made slow progress. April temperatures averaged well above the normal, and yet severe frosts occurred later in the month than usual, and seriously damaged the fruit crop. Fairly heavy snows occurred in the northeastern counties. May was the warmest since that of 1922, but with no unusual extremes. Severe local storms occurred in many parts of the State. A small tornado at Reading did damage estimated at \$75,000, while an unusually severe thunderstorm at Philadelphia destroyed hundreds of large trees and damaged wires and other property upwards of \$500,000. Six persons were killed and fourteen seriously injured. A thunderstorm at York did damage estimated at \$100,000. June was a month of unusual temperature extremes. Maximum temperatures of 100 degrees or higher were recorded at twenty stations, and a new June high was established with 107 degrees at Sharon on the 8th. At the other extreme was a severely cold period from the 13th to 16th inclusive with considerable damage to corn and truck crops by frost and freezing. July averaged near the normal in both temperature and rainfall, with an intensely hot period to close the month. The chief characteristic of August weather was a severe tropical storm that covered the eastern half of the State on the 23d and 24th. It was the most destructive storm of record for Pennsylvania. When its torrential rains and gales of wind passed over that region the greater portion of the corn was beaten to the ground. About two-thirds of the

crop was heavily eared, and was down to stay down. This storm covered practically all of the tobacco growing regions, and nearly ruined the crop. Orchard fruits, which were already poor, were reduced by nearly one-half in the storm region. Analysis of the rainfall shows amounts exceeding six inches for 43 stations. York had a three-days rainfall of 13.82 inches. Damage to highways and bridges was reported to exceed \$800,000. The flooding of the Schuylkill did damage of about a million of dollars. September was warm, rainy, and generally favorable. Its rains were very beneficial to pastures and truck crops in the western half of the State, but were too late to help corn or potatoes. October was cool and dry, but very pleasant. November was a month of great temperature extremes. It began and ended with mild temperatures, but was unseasonably cold from the 4th to 19th inclusive, and lowest temperatures of record for that period were reported from several stations. The snowfall was the heaviest of record since 1910. December was a gloomy month on account of excessive cloudiness. At Erie the sunshine was only 8 percent of possible.

COMPARATIVE DATA (ANNUAL)

Year	Temperature				Precipitation					Number of days			
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest annual	Least annual	Average snow-fall	.01 inch or more precipitation	Clear	Partly cloudy	Cloudy
1888....	47.9	-2.1	100	-31	45.91	+3.53	64.11	22.80	39.7	130	110	116	140
1889....	49.8	-0.2	96	-27	52.67	+10.29	73.00	31.72	22.3	136	112	113	140
1890....	50.5	+0.5	101	-18	51.28	+8.90	71.00	34.02	55.5	14	106	116	143
1891....	50.6	+0.6	100	-14	45.65	+3.27	64.00	32.21	34.1	124	124	108	133
1892....	49.3	-0.7	103	-28	41.30	-1.08	54.63	32.07	54.0	126	123	106	137
1893....	48.7	-1.3	102	-25	44.26	+1.88	58.56	30.62	61.6	126	116	120	129
1894....	51.3	+1.3	103	-28	43.69	+1.31	57.43	28.17	63.1	117	132	116	117
1895....	49.4	-0.6	104	-26	33.51	-8.87	40.80	21.17	39.7	104	143	115	107
1896....	50.5	+0.5	101	-21	41.95	-0.43	63.52	32.29	42.4	114	124	113	129
1897....	50.0	0.0	103	-25	42.73	+0.35	55.16	19.83	37.2	124	128	106	131
1898....	51.3	+1.3	107	-16	45.49	+3.11	56.95	34.07	38.8	130	123	197	135
1899....	50.0	0.0	101	-39	40.93	-1.45	51.13	28.36	47.9	112	134	111	120
1900....	51.5	+1.5	104	-23	37.31	-5.07	55.68	25.73	33.3	111	130	114	121
1901....	49.4	-0.6	107	-22	45.54	+3.16	56.83	29.81	35.4	123	118	111	136
1902....	49.6	-0.4	100	-24	47.29	+4.91	65.05	29.79	60.3	125	123	115	127
1903....	49.6	-0.4	99	-17	46.27	+3.89	57.16	35.90	37.3	121	130	105	130
1904....	47.5	-2.5	99	-42	40.44	-1.94	56.72	31.05	60.8	127	133	104	129
1905....	49.4	-0.6	99	-25	43.34	+0.96	59.38	33.53	40.9	128	133	109	123
1906....	50.8	+0.8	99	-21	42.78	+0.40	61.56	32.55	45.0	129	128	104	133
1907....	48.5	-1.5	98	-23	45.45	+3.07	64.05	31.79	54.5	132	136	102	127
1908....	50.9	+0.9	104	-29	39.58	-2.80	50.26	26.72	54.4	108	157	104	105
1909....	50.2	+0.2	100	-19	37.38	-5.00	48.79	27.91	41.4	117	140	102	123
1910....	49.9	-0.1	99	-22	38.99	-3.39	51.45	31.08	67.6	119	135	99	131
1911....	51.1	+1.1	105	-18	45.52	+3.14	67.61	29.25	39.2	133	131	93	141
1912....	49.0	-1.0	100	-35	44.13	+1.75	60.95	33.08	38.6	126	133	99	134
1913....	51.7	+1.7	102	-9	43.25	+0.87	56.06	32.48	24.4	125	148	84	133
1914....	49.3	-0.7	101	-28	38.24	-4.14	54.33	28.83	64.2	122	144	97	124
1915....	50.1	+0.1	99	-26	44.26	+1.88	61.96	33.40	42.8	131	141	99	125
1916....	49.6	-0.4	103	-31	40.98	-1.40	58.50	31.05	51.4	133	153	100	113
1917....	47.3	-2.7	105	-29	41.71	-0.67	62.68	23.65	45.6	130	143	110	112
1918....	50.2	+0.2	108	-34	41.06	-1.32	60.60	29.97	43.4	124	156	98	111
1919....	51.1	+1.1	104	-23	46.86	+4.48	58.20	31.55	26.2	136	152	96	117
1920....	49.2	-0.8	99	-23	40.63	-1.75	58.70	26.67	46.0	101	146	102	118
1921....	53.1	+3.1	104	-15	41.80	-0.58	62.91	30.08	30.2	130	155	96	114
1922....	51.4	+1.4	100	-19	34.88	-7.50	50.96	26.27	39.1	119	155	97	113
1923....	50.4	+0.4	103	-20	39.17	-3.21	52.84	23.75	40.7	125	158	91	116
1924....	48.4	-1.6	102	-25	43.13	+0.75	55.80	30.21	44.1	123	151	97	118
1925....	50.3	+0.3	104	-29	37.86	-4.52	55.47	25.95	44.2	124	149	101	115
1926....	48.7	-1.3	105	-20	43.11	+0.73	57.03	30.06	49.8	135	136	99	130
1927....	50.9	+0.9	100	-24	47.30	+4.92	63.93	32.88	30.3	140	142	91	132
1928....	50.5	+0.5	99	-23	42.06	-0.32	54.42	29.52	37.8	131	145	102	119
1929....	50.5	+0.5	101	-20	44.21	+1.83	58.69	33.13	36.7	129	144	99	122
1930....	51.2	+1.2	108	-24	28.82	-13.56	38.11	19.60	27.6	110	153	94	118
1931....	52.8	+2.8	105	-16	37.86	-5.02	51.03	27.04	22.5	123	151	94	120
1932....	51.6	+1.6	105	-14	39.02	-3.86	51.74	25.89	27.8	121	152	92	122
1933....	51.7	+1.7	107	-22	45.43	+3.05	62.55	25.91	33.1	135	146	96	123
Period.	50.0	.....	108	-42	42.88	.....	78.00	19.60	43.1	125	186	105	124

Climatological Data for the Year 1933

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)							Total snowfall (unmelted)	Number days with .01 or more	Sky				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Number clear days			Number partly cloudy days	Number cloudy days			
Atlantic Drainage.																						
Allentown.....	Lehigh.....	254	11	51.1	99	July 31	-3	Feb. 13	21	50.23	11.00	Aug.	0.72	Nov.	25.1	141	219	59	87	sw.		
Altoona.....	Blair.....	1,615	37	50.4	96	June 30	-6	Dec. 29	46	50.87	6.95	do.	1.21	Oct.	31.4	156	228	67	70	w.		
Ardmore.....	Montgomery.....	350	2	54.4	102	do. 9	-3	do. 30	2	61.06	12.67	do.	0.96	Nov.	25.1	123				nw.		
Bedford.....	Bedford.....	1,060	2	52.6	98	do. 9	-5	do. 27	2	37.86	5.93	May	1.09	do.	23.0	131	177	65	123	nw.		
Bellefonte.....	Center.....	1,050	16	48.9	95	July 31	-6	do. 29	25	40.77	7.14	Aug.	0.82	do.	18.9	150	174	127	164	w.		
Bethlehem.....	Northampton.....	364	30	53.9	101	do. 31	-6	do. 29	48	51.25	10.27	do.	0.73	do.	26.5	137	186	31	148	w.		
Carlisle.....	Cumberland.....	467	67	53.6	102	do. 31	-10	Feb. 12	44	54.03	11.14	do.	0.76	do.	31.5	123	213	54	98	nw.		
Catawissa.....	Columbia.....	520	37	52.4	102	do. 31	-2	Dec. 29†	37	47.00	8.55	do.	1.17	do.	36.3	117	196	50	119	nw.		
Chambersburg.....	Franklin.....	580	34	53.6	102	June 9	-1	Feb. 13†	37	44.72	8.63	do.	0.77	do.	25.0	134	126	122	117	sw.		
Coatesville.....	Chester.....	380	46	53.3	99	do. 9	-1	Dec. 30	46	55.02	13.29	do.	0.98	do.	21.5	131	184	29	152	nw.		
Colebrook.....	Lebanon.....	560	18	50.4	93	do. 9†	-5	do. 28	24	54.90	13.74	do.	0.78	do.	27.5	146	191	62	112	w.		
Emporium.....	Cameron.....	1,050	46	48.9	92	July 23	-14	do. 29	46	46.02	6.79	May	2.14	Jan.	45.4	147	128	99	138	e.		
Ephrata.....	Lancaster.....	380	33	54.4	102	do. 31	-1	Feb. 13	41	50.48	12.70	Aug.	0.51	Nov.	22.8	121	165	75	125	n.		
Freeland.....	Luzerne.....	1,970	40	48.2	92	June 9†	-13	Dec. 29	40	54.33	11.30	do.	1.69	do.	79.3	161	108	105	152	nw.		
George School.....	Bucks.....	190	27	53.9	99	July 31	-6	Feb. 13	27	47.01	9.51	do.	1.12	do.	32.7	130	171	80	114	w.		
Gettysburg.....	Adams.....	553	53	54.5	98	Aug. 1	3	do. 12†	60	49.91	11.51	do.	0.82	do.	22.3	136	179	72	114	s.		
Gordon.....	Schuylkill.....	840	30	49.0	93	July 31	-10	do. 12†	30	55.20	10.27	do.	1.31	do.	50.0	127	192	76	97	w.		
Gouldsboro.....	Wayne.....	1,875	10	42.6	87	June 29	-19	Dec. 29	19	49.01	11.71	Aug.	1.32	Nov.	61.0	90	159	86	120	w.		
Hamburg.....	Berks.....	535	40	51.2	98	July 31	-3	Feb. 13	40	55.58	13.20	do.	0.81	do.	22.5	109	152	113	100	w.		
Hanover.....	York.....	600	29	55.6	98	June 9†	-4	Dec. 29†	29	50.03	10.53	do.	1.05	do.	17.0	129	183	65	117	s.		
Harrisburg.....	Dauphin.....	374	45	53.6	98	July 31	2	do. 29	64	47.24	10.67	do.	0.70	do.	24.3	138	105	120	140	w.		
Hawley.....	Wayne.....	900	15	48.3	97	June 9†	-14	do. 29	15	48.30	11.45	do.	1.08	do.	59.0	135	169	116	80	w.		
Huntingdon.....	Huntingdon.....	650	46	52.0	98	do. 9†	-7	do. 28	46	48.58	10.52	May	1.02	do.	24.3	129	148	93	124	nw.		
Hyndman.....	Bedford.....	977	21	53.8	103	do. 9†	-3	do. 28	21	40.72	6.14	do.	1.22	do.	19.2	140	138	67	160	w.		
Kylertown.....	Clearfield.....	1,737	4	48.8	95	do. 29†	-6	Feb. 9	4	43.98	6.44	do.	1.60	Oct.		140	161	119	85	w.		
Lancaster.....	Lancaster.....	255	30	50.9	100	Aug. 1	-3	do. 12†	46	56.22	13.94	Aug.	0.63	Nov.	26.5	104	207	87	71	nw.		
Lawrenceville.....	Tioga.....	1,000	36	50.0	100	June 29	-11	Dec. 29	36	54.69	7.17	do.	0.54	Jan.	37.5	101	152	108	105	nw.		
Lebanon.....	Lebanon.....	469	45	52.6	100	do. 9	0	do. 29	49	52.72	12.44	do.	0.85	Nov.	23.3	132	204	89	72	sw.		
Lewisburg.....	Union.....	450	57	52.9	100	do. 9†	-2	do. 28†	57	43.10	8.71	do.	1.07	do.	34.2	133	137	97	131	w.		
Lock Haven.....	Clinton.....	580	43	53.1	104	do. 9	-2	do. 29	43	45.66	9.81	do.	1.24	do.	28.5	152	97	165	103	sw.		
Lykens.....	Dauphin.....	680	18	51.3	101	July 31†	-8	Feb. 10	18	49.57	11.55	do.	0.90	do.	31.4	130	174	101	90	sw.		
Mauch Chunk.....	Carbon.....	600	44	51.8	100	June 9	-6	Dec. 29	44	59.33	11.97	do.	0.97	do.	35.4	116	185	67	113	s.		
Mifflintown.....	Juniata.....	445	30	53.9	102	July 31	-2	Feb. 13	30	43.98	7.65	May	0.68	do.	16.9	95	185	72	108	w.		
Montrose.....	Susquehanna.....	1,658	30	46.4	91	do. 30	-22	Dec. 29	30	45.42	8.97	Aug.	1.30	Dec.	53.0	91	126	103	136	s.		
Muncy Valley.....	Sullivan.....	1,045	21	48.2	98	July 31	-15	Feb. 12	21	48.23	10.35	Aug.	1.37	Nov.	30.5	111	187	81	97	nw.		
Neshaminy Falls.....	Bucks.....	60	18	52.8	98	June 9†	-8	Dec. 28	18	48.87	9.29	do.	0.77	do.	19.8	130	176	86	103	w.		
Palmerton.....	Carbon.....	398	7	50.7	97	July 31†	-4	Feb. 13†	16	45.45	9.99	do.	0.70	do.	32.2	132	162	78	125	ne.		
Philadelphia.....	Philadelphia.....	114	62	56.4	99	do. 31	3	Dec. 30	62	51.37	9.84	do.	1.07	do.	17.8	125	114	100	151	sw.		
Phila. Navy Yard.....	Philadelphia.....	12	13	55.3	100	June 9†	-1	do. 30	17	50.65	10.20	do.	1.05	do.	23.2	137	56	160	149	sw.		
Phoenixville.....	Chester.....	100	23	55.2	104	Aug. 1	-6	Dec. 28	23	52.40	13.54	do.	0.68	do.	21.8	103	176	131	58	w.		
Quakertown.....	Bucks.....	496	46	51.3	98	July 31	-10	Feb. 13	48	53.15	10.15	do.	0.65	do.	23.0	129	158	106	101	nw.		
Reading.....	Berks.....	514	36	54.2	98	June 9	0	Dec. 30	56	38.75	7.53	do.	0.59	do.	23.4	132	100	130	135	nw.		
Scranton.....	Lackawanna.....	805	33	50.5	97	July 31	-10	do. 29	33	43.13	8.06	do.	1.12	Jan.	52.7	135	74	159	132	sw.		
Selinsgrove.....	Snyder.....	455	44	52.2	97	do. 1	-6	Feb. 12	44	45.52	9.66	do.	0.68	Nov.	30.0	138	133	126	106	w.		
Shawmont.....	Philadelphia.....	51	15	55.1	99	June 9†	-1	Dec. 30	37	49.87	10.32	do.	0.78	do.	22.0	113	120	110	135	nw.		
Shippensburg.....	Cumberland.....	660	1	53.8	98	Aug. 1	-2	Feb. 13	1	48.54	9.36	do.	0.80	do.	24.9	135	131	89	145	sw.		
State College.....	Center.....	1,217	45	50.8	97	July 31	-6	Dec. 29	49	44.45	6.95	May	1.62	do.	28.5	149	137	123	105	w.		
Towanda.....	Bradford.....	754	39	49.8	98	June 29	-10	do. 29	39	40.91	7.32	Aug.	0.88	do.	31.1	137	89	111	165	sw.		
Wellsboro.....	Tioga.....	1,419	53	47.9	100	July 23	-13	do. 29	63	32.60	6.87	do.	0.73	Feb.	35.7	105	192	75	98	w.		
West Chester.....	Chester.....	455	78	53.8	95	June 9	0	do. 30	84	55.43	12.59	do.	0.83	Nov.	28.2	109	169	107	89	w.		
York.....	York.....	400	34	54.0	100	Aug. 1	-7	Feb. 12†	45	54.19	17.70	do.	0.91	do.	23.5	131	179	106	80	w.		
Ohio Drainage.																						
Brookville.....	Jefferson.....	1,173	22	48.6	101	July 24	-16	Feb. 13	44	39.31	5.82	May	1.58	Jan.	53.0	124	138	85	142	.....	
Butler.....	Butler.....	1,077	10	51.3	101	do. 23	-9	Dec. 28	20	33.55	6.46	Mar.	0.67	Oct.	45.5	128	170	112	83	w.		
Chambersville.....	Indiana.....	1,047	4	51.3	101	do. 23	-10	do. 28	8	48.48	7.27	May	1.44	do.	35.4	163	136	46	183	w.		
Claireton.....	Allegheny.....	1,020	3	51.1	99	do. 23	-6	Feb. 9	3	35.89	5.92	Mar.	0.44	do.	20.9	136	105	107	153	s.		
Claysville.....	Washington.....	1,150	29	53.9	101	do. 23	-5	do. 9	29	41.70	6.64	do.	0.77	do.	18.4	164	191	47	128	w.		
Corry.....	Erie.....	1,430	21	49.0	100	do. 23	-8	Dec. 29	22	41.63	6.92	Sept.	1.43	July	102.1	154	144	86	155	sw.		
Derry.....	Westmoreland.....	1,172	37	51.9	98	do. 23	-6	do. 28	37	47.76	9.49	May	1.04	Oct.	24.3	150	164	75	126	w.		
Donora.....	Washington.....	762	7	56.4	101	June 8	1															

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		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
STATIONS		Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
DELAWARE BASIN.	Allentown.....	1.73	-1.78	3.16	+0.04	4.96	+1.74	4.71	+0.95	6.11	+2.57	2.51	-0.94	5.61	+0.83	11.00	+6.39	5.94	+2.59	1.96	-1.38	0.72	-1.96	1.82	-1.61	50.23	+7.44
	Ardmore.....	2.98	-0.61	3.54	+0.15	5.53	+2.00	5.77	+1.72	7.10	+3.25	4.57	+0.59	6.90	+2.61	12.67	+7.21	5.91	+1.96	1.99	-0.93	0.86	-2.58	3.14	-0.17	51.06	+15.20
	Bethlehem.....	1.68	-1.87	3.45	+0.08	4.88	+1.47	5.17	+1.94	7.78	+4.21	1.74	-2.30	5.26	+0.66	10.27	+5.97	5.97	+2.63	2.32	-0.89	0.78	-2.37	2.00	-1.32	51.25	+8.21
	Coatesville.....	2.08	+1.89	3.11	-0.85	6.06	+1.98	5.37	+1.60	5.81	+1.87	3.66	-0.41	6.23	+1.41	13.29	+8.92	4.21	+0.37	1.91	-1.50	0.98	-2.18	2.31	-1.60	55.02	+7.72
	Conshohocken.....	2.58	-0.62	3.30	0.00	5.77	+2.53	5.16	+1.44	7.06	+3.50	2.75	-0.51	5.63	+1.04	10.58	+6.71	3.40	+0.10	1.93	-1.76	0.94	-2.04	.....	.....	.....	.....
	Doylstown.....	1.45	-2.05	2.90	-0.78	5.13	+1.43	4.74	+0.77	8.07	+4.17	2.34	-1.55	5.36	+0.48	11.36	+6.13	4.64	+0.84	1.81	-1.91	0.59	-2.56	2.58	-1.11	50.97	+3.83
	Freeland.....	2.00	-1.57	3.30	+0.10	4.87	+1.30	5.00	+0.64	4.06	-0.82	2.89	-1.65	6.31	+1.55	11.30	+6.65	6.51	+2.73	3.80	+0.07	1.69	-1.99	2.60	-0.86	54.33	+6.51
	George School.....	1.69	-1.47	2.90	-0.19	4.99	+1.82	4.66	+1.03	5.45	+1.94	2.15	-1.22	4.91	+0.57	9.51	+4.91	5.25	+1.98	1.60	-1.54	1.12	-1.47	2.78	-0.69	47.01	+5.77
	Gouldsboro.....	1.84	-1.35	2.64	-0.46	4.30	+1.26	2.73	-1.08	2.94	-1.23	2.15	-2.84	5.28	+0.26	11.71	+7.37	7.63	+3.99	3.25	-0.58	1.32	-1.95	3.22	+0.39	49.01	+3.78
	Graterford.....	1.49	-1.57	3.23	-0.02	6.42	+3.59	4.49	+0.88	7.33	+4.28	0.82	-2.64	4.40	-0.06	12.22	+8.65	3.42	+0.82	2.09	-0.45	0.64	-2.05	1.52	-0.80	48.47	+10.63
	Hamburg.....	1.55	-1.96	3.04	-0.39	6.34	+2.54	6.20	+2.08	8.01	+3.60	1.98	-2.23	5.37	+0.45	13.20	+8.20	5.17	+1.12	2.28	-1.51	0.81	-2.07	1.63	-1.96	55.58	+7.87
	Hawley.....	1.71	-0.87	2.24	-0.30	4.15	+1.37	3.56	+0.13	2.54	-0.99	1.53	-2.26	6.53	+2.47	11.45	+7.40	6.82	+3.46	3.47	+0.19	1.08	-1.64	3.22	+0.34	48.30	+9.30
	Hollisterville.....	1.89	.....	2.69	.....	4.99	.....	3.75	.....	2.48	.....	1.21	.....	6.39	.....	9.49	.....	7.11	.....	3.29	.....	1.51	.....	3.12	.....	47.92	.....
	Lakeville.....	1.68	.....	2.53	.....	5.58	.....	4.68	.....	2.68	.....	0.94	.....	7.67	.....	11.12	.....	5.18	.....	3.56	.....	1.55	.....	3.65	.....	50.82	.....
	Lansford.....	1.30	-1.84	3.07	+0.31	4.28	+1.28	4.93	+1.37	5.68	+2.09	3.50	-1.06	6.18	+1.88	14.31	+9.93	10.84	+7.02	2.97	-1.12	1.42	-1.30	1.81	-1.58	60.29	+17.03
ALTOONA BASIN.	Marcus Hook.....	2.64	.....	3.77	.....	4.65	.....	5.37	.....	3.40	.....	4.20	.....	5.84	.....	10.99	.....	3.12	.....	1.33	.....	1.13	.....	2.06	.....	47.50	.....
	Matamoras.....	2.03	-0.67	3.06	+0.49	4.18	+1.10	4.20	+0.74	2.17	-1.11	1.99	-1.98	2.37	-1.28	9.51	+5.75	6.97	+3.71	2.98	-0.16	1.07	-1.71	3.20	+0.22	43.73	+5.10
	Mauch Chunk.....	1.70	-2.04	3.14	-0.60	5.87	+1.18	5.27	+1.31	5.84	+1.83	3.15	-1.27	5.17	+0.28	11.97	+7.21	11.67	+7.67	2.87	-0.92	0.97	-2.47	2.21	-1.79	59.33	+10.89
	Mount Pocono.....	1.23	-2.00	3.44	+0.42	5.30	+1.77	4.03	+0.03	2.62	-1.38	3.60	-1.65	4.36	-0.81	10.62	+6.38	10.55	+5.59	2.57	-2.29	1.48	-1.53	2.25	-1.33	52.06	+3.20
	Neshaminy Falls.....	2.01	-1.11	2.84	-0.02	5.97	+3.20	5.40	+2.02	5.27	+1.64	3.22	-0.54	4.95	+0.30	9.29	+4.47	5.17	+1.77	1.45	-1.71	0.77	-1.65	2.58	-0.74	48.87	+7.63
	Palmerton.....	1.59	-0.98	3.13	+0.90	3.92	+1.33	5.20	+1.98	5.18	+1.33	2.64	-1.59	3.47	-0.84	9.99	+6.28	5.83	+2.36	2.10	-1.04	0.70	-2.19	1.70	-0.65	45.45	+6.89
	Paupack.....	1.82	-0.82	1.15	-0.47	4.97	+1.86	3.52	-0.36	2.41	-1.17	0.75	-3.38	6.11	+1.87	11.91	+7.25	5.81	+1.79	2.45	-1.35	1.18	-1.74	2.71	-0.24	45.79	+3.89
	Philadelphia.....	2.66	-0.64	3.19	-0.13	4.86	+1.47	5.26	+2.21	6.93	+3.67	4.78	+1.54	4.70	+0.55	9.84	+5.22	4.17	+1.03	1.39	-1.42	1.07	-1.63	2.52	-0.91	51.37	+10.96
	Philadelphia-Gtn.....	2.72	.....	3.15	.....	5.55	.....	5.42	.....	6.26	.....	4.58	.....	5.13	.....	9.55	.....	5.18	.....	1.98	.....	1.08	.....	2.46	.....	53.06	.....
	Phila. Navy Yard.....	2.36	-0.75	3.20	-0.16	4.91	+1.79	4.73	+1.34	4.66	+1.45	5.89	+2.08	5.19	+0.27	10.20	+5.66	4.23	+1.08	1.55	-1.09	1.05	-1.30	2.68	-0.42	50.75	+9.95
	Phila. Point Breeze.....	2.30	.....	3.07	.....	4.51	.....	5.56	.....	4.35	.....	5.45	.....	3.98	.....	8.86	.....	3.61	.....	1.67	.....	0.92	.....	2.46	.....	46.74	.....
	Phoenixville.....	2.19	-1.47	2.88	-0.38	5.88	+2.57	4.88	+1.35	6.04	+2.08	1.47	-2.14	5.45	+0.55	13.54	+8.88	4.84	+1.59	1.90	-1.27	0.68	-2.19	2.65	-0.47	52.40	+9.10
	Pleasant Mount.....	2.90	-1.35	2.42	-1.08	5.55	+1.74	4.65	+0.69	3.77	-0.88	3.38	-1.37	4.09	-1.51	11.48	+7.18	6.22	+2.49	3.46	-0.68	2.65	-1.40	4.25	+1.21	54.82	+5.04
	Pottstown.....	1.46	-2.20	2.73	-0.71	5.59	+2.04	3.38	+0.11	7.69	+3.56	.....	.....	6.96	+2.62	1.56	-2.86	7.21	+2.37	13.67	+8.81	6.72	+2.72	3.19	-0.79	50.87	+8.77
	Pottsville.....	1.52	-1.96	3.14	-0.50	6.00	+2.47	5.75	+2.40	7.35	+3.47	2.40	-1.22	7.17	+2.21	10.15	+5.78	4.63	+1.00	2.25	-1.09	0.65	-2.49	2.14	-1.30	53.15	+8.77
SUSQUEHANNA BASIN.	Quakertown.....	1.21	-2.36	2.64	-0.78	4.46	+0.94	4.14	+0.87	5.42	+1.75	1.77	-1.78	4.69	+0.43	7.53	+3.32	2.84	-0.37	1.55	-1.57	0.59	-2.14	1.91	-1.65	38.75	-3.34
	Reading.....	1.98	-1.30	3.10	-0.17	5.24	+1.83	5.05	+1.75	5.56	+2.24	2.19	-1.30	5.78	+1.42	10.32	+5.29	5.31	+2.03	1.75	-1.41	0.78	-2.04	2.81	-0.76	49.97	+7.58
	Shawmont.....	1.56	.....	4.31	.....	4.99	.....	4.50	.....	3.95	.....	1.22	.....	2.16	.....	11.45	.....	9.89	.....	2.72	.....	1.04	.....	3.11	.....	50.90	.....
	Snow Hill.....	1.89	-1.22	3.67	+0.68	6.62	+2.97	4.87	+0.81	4.14	+0.65	1.55	-2.95	3.25	-1.92	9.90	+4.93	10.07	+7.18	2.52	-1.19	0.97	-2.31	2.75	-0.58	52.20	+7.05
	Stroudsburg.....	2.49	-1.30	2.81	-0.01	5.29	+1.39	4.99	+1.20	6.35	+2.03	1.97	-2.30	7.12	+2.42	12.59	+7.96	5.79	+1.90	2.14	-1.50	0.83	-2.70	3.06	-0.84	55.43	+7.25
	West Chester.....	2.15	.....	3.11	.....	5.31	.....	5.93	.....	4.59	.....	3.21	.....	4.61	.....	11.11	.....	5.19	.....	2.17	.....	0.86	.....	2.21	.....	50.45	.....
	West Grove.....	1.76	.....	3.97	.....	6.54	.....	5.65	.....	7.17	.....	2.23	.....	7.92	.....	9.50	.....	5.76	.....	3.14	.....	0.94	.....	2.94	.....	57.52	.....
	Zionsville.....	2.34	-0.25	1.84	-0.37	6.69	+3.97	4.56	+1.43	9.61	+5.67	1.69	-2.17	6.75	+3.21	6.95	+3.62	4.08	+1.21	1.21	-1.46	1.54	-0.69	3.61	+1.19	50.87	+15.36
	ALTOONA BASIN.	1.06	-1.04	0.78	-0.13	3.27	+1.13	3.26	-0.23	4.48	+0.82	1.71	-2.23	3.46	+0.28	5.65	+2.20	4.51	+1.36	1.80	-1.13	1.31	-0.83	1.74	-0.80	32.98	-0.98
	Arendtsville.....	1.26	-1.49	2.62	-0.15	6.02	+2.55	6.11	+2.92	5.23	+1.32	1.63	-2														

Monthly and Annual Precipitation for the Year 1933, with Departures from the Normal.—Continued

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Chambersville.....	2.89	-0.97	2.42	-0.60	6.57	+2.83	3.91	-0.03	7.27	+3.02	4.46	-0.40	4.21	-0.51	3.66	-0.40	4.21	+0.36	1.48	-2.01	2.18	-0.77	5.22	+1.89	48.48	+2.41
Clairton.....	2.46	.....	1.84	.....	5.92	.....	4.10	.....	5.65	.....	2.04	.....	2.34	.....	4.00	.....	3.02	.....	0.44	.....	1.15	.....	2.93	.....	36.89	.....
Claysville.....	2.72	-0.58	1.81	-0.67	6.64	+3.31	3.86	+0.40	6.33	+2.71	1.57	-2.84	3.63	-0.55	3.97	+0.18	4.38	+1.17	0.77	-2.52	1.60	-0.82	4.39	+1.41	41.70	+1.20
Clymer.....	2.60	-0.79	2.36	-0.73	6.26	+2.99	3.71	-0.25	7.40	+3.18	4.36	+0.89	2.54	-2.98	4.68	+0.81	3.13	-0.43	1.43	-1.67	2.01	-1.32	6.01	+2.94	46.49	+0.86
Confluence.....	2.35	-1.62	2.19	-1.20	7.51	+3.72	4.56	+0.99	9.68	+5.71	3.61	-0.97	4.47	-0.20	5.13	+1.12	3.72	+0.61	1.37	-1.61	2.60	-0.38	4.14	+0.65	51.33	+6.82
Corry.....	1.58	-1.88	2.25	-1.00	3.79	+0.45	3.63	-0.04	3.68	-0.60	3.30	-0.22	1.48	-2.15	2.44	-1.16	6.92	+2.94	2.96	-1.07	5.21	+0.99	4.39	+0.96	41.63	-4.58
Coudersport.....	1.40	-1.92	1.82	-1.07	3.73	0.00	4.15	+0.45	5.99	+2.51	1.91	-2.51	3.84	-0.15	4.90	+1.71	2.45	-0.26	*1.92	-0.08	1.99	-1.18	2.65	+0.26	36.74	-2.22
Cresson.....	2.25	-1.36	1.62	-1.84	5.22	+2.11	4.34	+0.07	8.21	+4.26	2.92	-1.38	3.60	-1.75	5.69	+2.58	4.08	+0.92	1.17	-1.75	2.08	-1.26	3.76	+0.55	44.94	+1.15
Derry.....	2.94	-0.94	3.13	-0.01	5.98	+2.10	4.66	+0.88	9.49	+5.89	3.78	-1.11	2.65	-1.91	4.90	+0.87	3.61	+0.50	1.04	-2.14	1.72	-1.01	3.86	+0.58	47.76	+3.70
Donora.....	2.89	.....	1.55	.....	6.97	.....	4.51	.....	5.32	.....	1.88	.....	4.94	.....	3.25	.....	3.12	.....	0.43	.....	1.18	.....	3.31	.....	39.35	.....
Ebensburg.....	1.93	-1.21	2.54	-0.34	6.80	+4.14	3.54	+0.04	8.35	+4.27	2.87	-1.83	4.63	+0.49	5.65	+1.73	4.71	+1.20	1.50	-1.95	3.14	-0.07	4.46	+1.92	50.12	+8.39
Elk Lick.....	2.30	-1.36	*1.79	-1.59	8.95	+5.69	3.82	-0.22	8.70	+4.70	2.21	-3.40	1.59	-2.91	3.16	-0.54	4.12	+0.54	1.97	-1.13	3.86	+0.74	3.41	+0.08	39.13	-3.24
Franklin.....	1.45	-2.13	2.49	-0.34	4.93	+1.50	3.89	+0.78	5.84	+2.26	2.42	-2.09	1.59	-2.91	3.16	-0.54	4.12	+0.54	1.97	-1.13	3.86	+0.74	3.41	+0.08	39.13	-3.24
Greensboro.....	2.91	-0.61	2.02	-0.92	7.35	+3.85	5.20	+0.05	5.71	+1.96	2.45	-2.17	5.11	+0.54	4.54	+0.89	3.81	+0.77	1.17	-1.70	1.80	-0.96	3.08	+0.03	45.15	+3.73
Greensburg.....	2.92	-0.66	2.25	-0.80	6.09	+3.02	5.42	+1.76	7.70	+3.83	2.31	-2.07	2.30	-1.40	4.62	+0.67	3.48	+0.27	0.79	-2.35	1.69	-0.79	4.73	+1.61	44.30	+3.09
Greenville.....	1.31	-2.20	2.11	-0.43	5.13	+1.63	4.00	+0.59	5.47	+1.89	3.58	-0.40	1.96	-2.32	2.31	-1.09	3.31	-0.16	1.66	-1.77	3.55	+0.48	2.68	-0.22	37.07	-4.00
Grove City.....	1.61	-1.69	2.17	-0.17	5.46	+2.30	2.32	-1.25	4.78	+0.65	2.28	-1.75	1.51	-2.81	1.22	-2.04	3.26	-0.30	1.63	-1.75	3.12	+0.08	3.63	+0.60	32.99	-8.13
Herrs Island Dam.....	2.87	-0.07	2.16	-0.31	5.94	+2.66	4.54	+1.39	8.32	+5.27	1.32	-2.86	2.89	-0.73	4.61	+1.32	3.50	+1.00	0.62	-2.11	1.63	-0.58	3.47	+0.73	41.87	+5.71
Irwin.....	2.22	-0.70	2.12	-0.32	5.60	+2.29	3.77	+0.57	6.48	+3.26	3.31	-1.12	2.95	-0.87	3.09	-0.62	2.25	-0.47	0.33	-2.52	1.10	-1.27	3.42	+0.51	36.64	-1.26
Johnstown.....	3.34	-0.85	3.66	-0.42	7.09	+3.06	3.67	-0.37	9.43	+5.01	3.39	-1.78	2.03	-2.34	4.13	-0.20	3.36	-0.17	1.21	-1.80	2.13	-0.90	5.06	+1.45	48.20	+0.69
Kane (near).....	2.01	.....	3.20	.....	5.63	.....	3.94	.....	5.96	.....	2.54	.....	2.19	.....	3.92	.....	2.54	.....	2.03	.....	4.93	.....	3.03	.....	41.92	.....
Kregar.....	2.49	.....	2.34	.....	6.14	.....	4.56	.....	9.33	.....	4.22	.....	5.25	.....	6.51	.....	4.68	.....	1.16	.....	2.10	.....	3.98	.....	52.76	.....
Lake Lynn.....	2.87	.....	1.64	.....	7.01	.....	5.22	.....	7.37	.....	2.57	.....	7.41	.....	5.31	.....	2.79	.....	1.17	.....	1.56	.....	3.11	.....	48.02	.....
Linesville.....	1.62	-1.38	2.29	+0.19	3.44	+0.22	4.76	+1.59	*3.06	-0.35	2.18	-1.82	1.20	-2.49	2.54	-0.78	4.47	+0.57	1.88	-1.85	4.07	+1.05	3.26	+0.04	34.77	-5.01
Lock No. 2 (Neville).....	2.61	-0.54	1.52	-1.17	5.35	+2.20	3.87	+0.70	5.95	+2.64	2.37	-1.90	4.61	+0.92	4.04	+0.90	3.75	+0.51	0.76	-2.17	1.49	-0.88	3.44	+0.60	39.76	+1.81
Lock No. 4.....	2.81	-0.31	1.84	-0.92	6.58	+3.27	5.11	+0.87	6.01	+2.40	1.87	-2.07	3.13	-0.89	3.15	-0.37	3.03	+0.18	0.48	-2.36	1.43	-1.09	3.14	+0.23	38.68	-0.07
Lock No. 5.....	3.06	-0.70	2.63	-0.53	6.84	+3.26	4.06	+0.68	7.18	+3.31	2.04	-2.27	1.98	-2.22	3.63	-0.05	4.30	+1.27	0.92	-1.96	1.87	-1.08	3.57	+0.12	42.08	-0.17
Lycippus.....	2.51	-1.48	2.26	-0.93	8.68	+4.95	5.77	+1.94	7.15	+3.19	3.26	-1.42	2.88	-2.47	5.73	+1.55	5.71	+2.44	0.61	-2.54	2.58	-0.16	3.66	+0.28	50.30	+5.35
McKeesport.....	2.85	.....	1.19	.....	6.54	.....	5.20	.....	6.70	.....	1.87	.....	3.87	.....	4.55	.....	3.00	.....	0.50	.....	1.00	.....	3.30	.....	40.57	.....
Meadville.....	1.63	-1.79	2.41	-0.41	4.26	+0.96	3.91	+0.53	3.87	-0.45	2.87	-1.55	1.54	-2.63	2.06	-1.68	4.70	+0.96	1.82	-1.71	4.44	+0.85	2.97	-0.26	36.08	-7.17
Mosgrove.....	2.00	.....	2.53	.....	6.01	.....	3.51	.....	7.23	.....	2.50	.....	2.57	.....	1.96	.....	3.07	.....	1.05	.....	2.00	.....	3.67	.....	38.10	.....
Mt. Lebanon.....	2.90	.....	1.76	.....	6.49	.....	4.92	.....	7.41	.....	1.97	.....	3.67	.....	4.76	.....	3.34	.....	0.80	.....	1.30	.....	3.30	.....	42.62	.....
Natrona.....	2.82	.....	2.47	.....	6.66	.....	4.08	.....	6.12	.....	1.38	.....	3.09	.....	2.92	.....	3.14	.....	0.91	.....	1.72	.....	3.68	.....	38.99	.....
New Castle.....	1.20	-1.82	1.20	-1.22	5.23	+2.32	3.92	+0.93	3.91	+0.53	0.67	-3.64	1.19	-2.93	2.57	-0.64	2.72	-0.42	1.48	-1.24	2.06	-0.34	3.71	+1.13	29.86	-7.34
Newell.....	2.10	-0.77	1.43	-0.83	5.87	+2.76	4.60	+1.62	5.98	+3.22	1.82	-2.23	2.61	-1.16	3.64	+0.58	4.27	+1.62	1.13	-1.41	1.97	-0.31	3.24	-0.62	38.67	+3.71
Parkers Landing.....	1.63	-1.93	2.60	-0.48	6.27	+2.74	3.70	+0.21	4.91	+1.13	2.20	-1.93	1.22	-2.97	1.99	-1.95	3.62	+0.24	1.20	-1.68	2.89	-0.16	3.96	+0.66	36.19	-6.18
Pennline.....	1.62	-0.96	2.27	+0.20	3.65	+0.75	4.42	+1.09	2.50	-1.05	1.00	-2.72	1.58	-2.09	2.18	-1.41	4.67	+0.23	1.97	-1.15	2.83	-0.57	3.86	+1.11	32.55	-6.57
Pittsburgh.....	2.39	-0.66	1.67	-0.95	5.77	+2.74	4.25	+1.33	6.55	+3.34	1.16	-2.65	3.21	-0.84	5.51	+2.28	4.20	+1.62	0.46	-2.06	1.68	-0.61	3.42	+0.56	40.27	+4.10
Punxsutawney.....	2.08	-0.91	2.69	-0.04	5.34	+2.52	4.21	+0.84	6.98	+2.96	2.03	-2.67	4.39	+0.63	4.70	+1.55	2.64	-0.45	2.03	-0.59	2.27	-0.61	4.31	+1.63	42.98	+4.86
Ridgway.....	1.53	-1.43	1.72	-0.70	4.65	+1.55	3.69	+0.76	4.91	+0.95	2.42	-1.97	1.62	-2.34	3.06	-0.21	2.23	-0.96	2.04	-1.02	2.33	-0.51	3.08	+0.48	33.28	-6.40
Saltsburg.....	2.87	-0.80	2.13	+0.96	5.27	+2.12	4.02	+0.71	7.92	+4.35	5.55	+1.33	6.10	+2.06	5.72	+2.00	4.00	+0.51	0.79	-2.32	1.68	-0.71	3.30	+0.06	49.35	+8.35
Sharon.....	1.37	-1.09	1.50	-0.24	4.41	+1.74	3.26	+0.19	3.71	+0.54	1.37	-2.09	1.68	-1.85	1.80	-1.63	2.52	-0.32	0.96	-1.92	1.66	-0.81	1.67	+0.65	25.91	-8.13
Smethport.....	0.93	-2.13	2.12	-0.17	3.04	-0.59	2.61	-0.21	9.18	+4.85	3.14	-1.00	5.56	+1.10	5.10	+1.14	3.10	-0.54	1.50	-1.53	2.					

Monthly and Annual Mean Temperatures for the Year 1933, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic Drainage.																										
Allentown.....	35.6	+6.1	29.3	+1.2	36.3	-2.0	50.0	+1.5	62.0	+2.3	70.2	+0.8	72.9	-0.8	71.4	0.0	66.0	+0.4	51.4	-1.6	37.6	-4.8	30.0	-2.2	51.1	-0.1
Altoona.....	36.3	+9.3	30.2	+3.0	34.9	-2.9	50.0	+2.0	60.4	+1.6	69.8	+3.5	71.2	+0.4	68.6	-0.4	65.0	+1.9	50.2	-1.9	36.6	-3.8	31.8	+2.1	50.4	+1.2
Ardmore.....	39.8	+9.0	34.6	+1.4	39.7	-2.6	52.8	+2.1	65.4	+5.0	73.6	+3.5	74.0	+0.1	73.2	+1.9	69.8	+2.5	55.0	-0.2	42.2	-2.0	33.2	-0.8	54.4	+1.1
Arendtsville.....	36.2	+5.6	.....	.....	36.8	-2.7	52.2	+2.9	62.0	+2.3	71.2	+0.9	73.5	-0.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bedford.....	38.4	.....	33.2	.....	37.6	.....	52.0	.....	63.0	.....	71.5	.....	72.2	.....	71.8	.....	67.4	.....	51.6	.....	39.4	.....	33.0	.....	52.6	.....
Bellefonte.....	34.9	+7.2	28.8	+1.5	34.6	-5.5	48.4	-2.1	59.2	-1.9	68.3	-0.4	70.3	-2.9	68.4	-2.4	63.2	-1.7	47.8	-5.2	35.4	-6.0	28.1	-2.4	48.9	-1.9
Bethlehem.....	39.0	+9.0	33.7	+2.6	38.6	-2.0	52.8	+1.3	64.5	+2.3	73.7	+3.5	75.0	+0.4	73.9	+1.1	68.8	+2.1	55.0	-0.7	40.5	-3.7	31.4	-1.9	53.9	+1.2
Carlisle.....	38.0	+9.9	32.2	+2.2	39.2	+0.8	53.4	+1.3	65.1	+3.7	74.2	+3.2	75.2	+0.4	73.2	+0.6	68.5	+3.3	53.4	+0.6	39.2	-1.9	31.8	+0.3	53.6	+2.0
Catawissa.....	37.3	+9.6	32.2	+2.6	38.2	-0.2	52.1	+1.7	62.4	+1.9	72.2	+4.0	74.2	+1.5	72.6	+2.3	66.6	+2.6	51.8	-1.6	37.9	-4.5	30.9	-0.6	52.4	+1.6
Center Hall.....	37.0	+11.2	31.1	+3.8	35.6	-1.0	.....	.....	56.9	-1.9	69.0	+3.0	69.5	-1.7	66.8	-1.9	62.1	-0.1	48.8	-3.1	36.1	-4.1	28.6	-1.1	.....	.....
Chambersburg.....	39.0	+10.1	33.1	+1.7	38.8	-0.7	52.6	+2.5	64.3	+3.6	73.4	+4.0	74.8	+0.5	72.8	+0.1	68.4	+2.3	52.5	-0.4	39.9	-2.0	33.2	+0.2	53.6	+1.9
Clearfield.....	.....	.....	29.8	+1.3	36.0	-1.9	51.0	+3.1	60.5	+1.7	69.0	+2.1	71.6	+0.2	68.9	-1.0	64.8	+0.9	50.0	-2.6	.....	.....	.....	.....	.....	.....
Coatesville.....	38.5	+8.6	32.8	+2.4	38.4	-1.6	51.6	+1.0	64.1	+2.9	72.8	+2.8	73.8	-0.8	73.0	+0.5	68.4	+2.2	53.4	-0.7	40.2	-2.6	32.2	-0.5	53.3	+1.2
Colebrook.....	35.4	+8.4	30.0	-0.3	36.4	-3.7	49.4	+0.3	61.0	+2.0	69.2	+1.1	70.6	-1.8	69.8	-0.5	65.0	+0.8	50.2	-2.5	37.6	-4.0	29.7	-1.9	50.4	-0.1
Emporium.....	35.4	+9.9	28.8	+3.2	34.2	-1.2	49.8	+3.1	59.7	+1.9	65.2	-0.6	69.2	-0.4	67.2	-0.2	62.9	+1.5	48.3	-1.7	36.2	-3.0	29.7	+0.6	48.9	+1.1
Ephrata.....	38.8	+9.2	33.6	+3.9	39.8	-0.2	53.4	+3.4	65.1	+3.1	74.4	+5.9	76.0	+1.9	74.6	+3.0	69.0	+3.2	54.2	-0.4	40.8	-2.1	32.7	+0.5	54.4	+2.7
Freeland.....	33.2	+9.3	27.6	+2.9	31.8	-1.1	47.0	+2.7	60.0	+3.8	68.2	+3.6	70.2	+1.6	67.8	+1.6	62.8	+3.2	49.0	+2.0	33.6	-3.4	26.6	-0.5	48.2	+2.2
George School.....	40.2	+9.6	34.3	+3.1	39.0	-1.7	51.6	+1.4	65.0	+4.5	72.5	+3.9	74.1	+0.4	73.9	+2.5	69.5	+3.5	54.8	-0.2	40.6	-2.6	31.7	-1.3	53.9	+1.9
Gettysburg.....	40.5	+11.1	34.4	+3.3	39.1	-0.7	53.0	+2.3	65.0	+3.7	73.8	+3.9	74.8	+0.6	73.9	+2.0	69.4	+3.8	54.1	+1.1	41.2	-0.8	34.2	+2.0	54.5	+2.7
Gordon.....	35.4	+9.1	30.2	+3.2	36.1	-0.8	49.2	+1.5	59.4	+1.6	67.4	+1.8	68.8	-1.3	67.5	-0.3	62.2	-0.1	47.6	-3.1	35.4	-4.2	28.3	-0.7	49.0	+0.6
Gouldsboro.....	30.2	+6.1	23.3	-1.5	28.2	-2.1	42.7	-1.3	53.1	-0.8	60.8	+3.2	61.5	-3.6	60.6	-2.4	56.6	-1.1	41.8	-4.0	29.4	-6.8	22.8	-3.3	42.6	-1.2
Hamburg.....	36.6	+8.3	31.5	+2.3	36.9	-1.5	49.4	-0.3	60.8	-0.1	70.4	+1.4	72.0	-1.3	70.8	-0.4	65.2	-0.1	53.7	+0.3	37.8	-4.1	29.6	-2.1	51.2	+0.2
Hanover.....	41.8	+9.7	36.0	+3.1	40.7	-1.8	54.0	+1.4	65.7	+2.9	74.6	+3.7	75.9	+0.5	74.8	+1.7	70.0	+2.4	55.6	+0.2	42.4	-2.2	35.2	+1.0	55.6	+1.9
Harrisburg.....	38.9	+9.9	32.8	+2.6	38.7	-0.2	52.3	+1.4	64.2	+2.4	73.4	+3.1	75.0	+0.2	73.2	+0.6	68.6	+2.8	53.8	-1.0	40.0	-2.8	32.8	-0.1	53.6	+1.5
Hawley.....	32.6	+8.0	28.4	+2.0	33.0	-2.5	48.6	+3.0	60.9	+4.1	68.0	+1.7	69.8	-0.6	67.4	-0.4	62.2	+0.5	48.0	-1.6	34.6	-4.9	25.9	-2.9	48.3	+0.5
Holtwood.....	39.4	+9.3	32.8	-0.3	39.9	-2.1	.....	.....	65.4	+3.6	74.5	+2.9	77.1	+1.3	76.0	+2.5	70.2	+1.2	54.8	-1.4	41.0	-3.8	33.0	-1.2	.....	.....
Huntingdon.....	37.2	+8.7	32.5	+3.3	37.8	-1.1	51.1	+1.5	62.4	+2.2	71.5	+3.2	72.0	-0.2	71.4	+2.1	66.2	+1.6	51.4	-1.3	38.6	-3.1	32.3	+0.7	52.0	+1.3
Hyndman.....	38.8	+8.7	33.8	+2.3	39.0	-1.4	54.2	+1.5	64.2	+3.4	72.6	+5.2	73.5	+1.0	73.0	+2.1	69.2	+3.8	53.0	-0.2	40.0	-2.3	34.8	+2.4	53.8	+2.3
Kylertown.....	35.4	.....	28.8	.....	33.6	.....	48.8	.....	58.8	.....	67.9	.....	68.6	.....	67.0	.....	62.6	.....	47.7	.....	34.0	.....	32.6	.....	48.8	.....
Lancaster.....	35.7	+6.0	31.7	+0.7	36.9	-2.8	50.4	+1.3	62.0	+1.3	70.2	+0.2	72.1	-1.6	71.2	-0.8	66.0	+0.5	49.6	-4.2	37.0	-6.4	27.6	-5.8	50.9	-0.9
Lawrenceville.....	35.4	+10.8	29.0	+4.5	35.2	+0.4	49.7	+3.8	60.8	+3.9	70.0	+4.4	70.9	+0.8	68.7	+0.8	64.4	+2.9	50.1	-0.4	35.9	-3.1	30.0	+1.3	50.0	+2.5
Lebanon.....	36.5	+7.7	31.1	+1.5	37.4	-2.0	51.2	+0.8	64.0	+3.2	72.8	+3.2	74.4	+0.6	73.0	+1.2	68.5	+2.9	52.6	-1.1	38.9	-3.6	30.8	-1.2	52.6	+1.1
Lewisburg.....	37.5	+11.2	32.4	+5.1	39.2	+2.2	52.4	+3.0	63.0	+3.1	73.5	+4.5	75.2	+1.9	72.6	+1.8	67.7	+1.3	51.8	0.0	38.9	-1.6	31.0	+0.9	52.9	+2.7
Lock Haven.....	36.9	+9.5	32.3	+4.3	38.4	-0.2	53.1	+2.8	64.6	+3.0	74.2	+4.7	74.8	+1.5	72.2	+1.1	67.0	+2.2	52.4	-1.1	39.2	-2.7	31.6	+0.6	53.1	+2.2
Lykens.....	36.6	+8.9	30.4	-0.3	36.8	-2.7	51.6	+1.6	62.2	+3.0	71.3	+3.8	72.0	+0.2	71.2	+1.2	65.6	+1.2	50.6	-2.7	38.0	-3.8	29.8	-1.2	51.3	+0.7
Marcus Hook.....	42.8	.....	36.4	.....	42.2	.....	55.6	.....	68.0	.....	76.4	.....	78.6	.....	77.7	.....	71.6	.....	59.4	.....	45.4	.....	.....	.....	.....	.....
Mauch Chunk.....	37.0	+9.7	33.2	+5.4	40.2	-2.8	53.5	+4.9	65.0	+5.3	73.6	+5.8	71.0	-1.2	66.8	-3.2	64.1	-0.1	48.6	-3.9	37.5	-3.5	30.6	0.0	51.8	+1.9
Midlinton.....	37.8	+9.9	33.2	+4.4	39.9	+0.7	53.5	+3.5	64.6	+4.5	74.1	+5.7	75.2	+3.3	73.6	+3.1	68.9	+4.4	53.0	+0.1	39.7	-1.7	33.0	+1.9	53.9	+3.3
Montrose.....	32.4	+11.4	26.6	+4.4	31.0	-1.3	43.9	-0.1	57.4	+2.9	65.5	+2.3	68.7	-1.0	65.0	-1.3	60.9	+0.3	47.9	-1.1	33.0	-4.4	25.0	-0.1	46.4	+1.1
Mount Pocono.....	33.0	+10.2	.....	.....	.....	.....	.....	.....	54.8	+0.9	61.0	+0.7	63.6	-2.1	64.4	+0.6	60.0	+1.6	49.0	-0.6	28.5	-7.8	25.6	-0.2	.....	.....
Muncy Valley.....	32.4	+7.8	27.6	+1.2	34.6	-1.1	48.6	+1.0	59.2	+2.3	67.4	+2.2	69.5	-0.1	67.7	+0.1	61.6	+0.1	47.9	-2.4	34.5	-5.0	27.4	-0.6	48.2	+0.5
Neshaminy Falls.....	37.9	+9.9	32.0	+2.2	38.4	-1.0	50.8	+0.8	63.8	+4.4	71.6	+3.0	73.7	+0.4	73.1	+2.1	67.8	+2.4	53.3	-0.6	40.7	-1.5	30.6	-1.1	52.8	+1.8
Palmerton.....	36.0	.....	29.3	.....	36.4	.....	49.3	.....																	

COOPERATIVE AND RAINFALL OBSERVERS

Stations	Observers	Stations	Observers	Stations	Observers
Allentown.....	John A. Frick.	Greensboro.....	George W. Paxton.	Paupack.....	Penn. Power & Light Co.
Altoona.....	F. E. Rooney.	Greenville.....	C. P. Clarke.	Penn Line.....	Retta Crumb.
Ansonia.....	Paul H. Mulford.	Grove City.....	Prof. H. W. Harmon.	Philadelphia.....	U. S. Weather Bureau.
Ardmore.....	H. L. Balderston.	Hamburg.....	State Sanatorium.	Philadelphia-Gtn.....	Julius Bernstein.
Bakers Summit.....	M. Snyder.	Hanover.....	Thomas Y. Cooper.	Philadelphia.....	Commandant, Navy
Beaver Dam.....	F. H. McCullough.	Harrisburg.....	U. S. Weather Bureau.	Navy Yard.....	Yard.
Beaver Falls.....	W. Edward Eakin.	Hawley.....	Mrs. Della M. Pennell.	Phila. Point Breeze.....	Atlantic Refining Co.
Bedford.....	Charles C. Lee.	Herrs Island Dam.....	U. S. Engineer.	Phoenixville.....	Philadel. Sub. Water Co.
Bethlehem.....	Lehigh University.	Hollisterville.....	Penn. P. & L. Co.	Pine Grove.....	East Penn. Electric Co.
Blossville.....	A. G. Mountz.	Holtwood.....	H. W. Lowy, C. E.	Pittsburgh.....	U. S. Weather Bureau.
Bellefonte.....	U. S. Weather Bureau.	Huntingdon.....	Prof. Paul R. Yoder.	Pleasant Mount.....	C. R. Butler.
Brookville.....	John Fawcett.	Hyndman.....	Horace A. Sheavly.	Pottstown.....	Daily Mercury.
Buffalo Mills.....	Nelle R. Brown.	Irwin.....	W. F. Gallagher.	Pottsville.....	Pottsville Water Co.
Butler.....	The Butler Eagle.	Johnstown.....	Robert Tross.	Quakertown.....	John E. Benner.
Carlisle.....	Clarence E. Miller.	Kane (near).....	U. S. Forest Service.	Reading.....	U. S. Weather Bureau.
Catawissa.....	W. L. Gearhart.	Kearney.....	J. A. Knupp.	Renovo.....	J. H. Baird.
Center Hall.....	S. W. Smith.	Kylertown.....	Bur. Plant Industry.	Retreat.....	Theo. J. Sampson.
Chambersburg.....	Wm. B. Spear.	Lake Lynn.....	R. McGeuchie.	Ridgway.....	West Penn. Power Co.
Chambersville.....	John E. Lewis.	Lakeville.....	Penn. P. & L. Co.	Salisbury.....	Thomas M. Duncan.
Clairton.....	Carnegie Steel Co.	Lancaster.....	Supt. Water Works.	Scranton.....	U. S. Weather Bureau.
Claysville.....	J. L. Melvin.	Lansford.....	Lehigh Coal & Nav. Co.	Selinsgrove.....	Dr. George E. Fisher.
Clearfield.....	E. W. Hess, C. E.	Lawrenceville.....	C. P. Darling.	Sharon.....	H. H. Gerber.
Clymer.....	L. Frendberg.	Lebanon.....	Lebanon Valley Gas Co.	Shawmont.....	Winfield S. Guiles.
Coatesville.....	Howard A. Pyle.	Lewisburg.....	Prof. Wm. G. Owens.	Shippensburg.....	Keith B. Allen.
Colebrook.....	William A. Rorer.	Linesville.....	I. F. Hepler.	Snow Hill.....	G. L. Dormoy.
Confluence.....	Grant Pyle.	Lock Haven.....	Joseph A. Beaver.	Somerset.....	D. L. Grove.
Conshohocken.....	Russell C. Erb.	Lock No. 2.....	R. C. McCullough.	Springdale.....	U. S. Engineer.
Corry.....	Assd. Gas & Electric Co.	Lock No. 4.....	U. S. Engineer.	State College.....	C. A. Kern.
Coudersport.....	West Penn. Power Co.	Lock No. 5.....	U. S. Engineer.	Stroudsburg.....	State Normal School.
Cresson.....	W. P. Linnan.	Lycippus.....	Westmoreland Water Co.	Sunbury.....	Earl E. Stahl.
Derry.....	Ted R. Wineman.	Lykens.....	Susquehanna Coal Co.	Towanda.....	Mrs. M. Ordelia Parks.
Donora.....	Donora Zinc Works.	Marcus Hook.....	Sun Oil Co.	Uniontown.....	Wm. W. Marsteller.
Doylestown.....	Geo. Hart.	Matamoras.....	John Bisland.	Unity Reservoir.....	Westmoreland Water Co.
Ebensburg.....	D. H. Jones.	Mauch Chunk.....	R. K. Wintermute.	Vandergrift.....	H. R. Belding.
Elk Lick.....	J. S. Stevanus.	Meadville.....	Assd. Gas & Electric Co.	Warren.....	Mrs. Anna Simpson.
Emporium.....	T. B. Lloyd.	Mifflintown.....	W. H. Manbeck.	Waynesburg.....	Thomas S. Knox.
Ephrata.....	Ira J. Keath.	Montrose.....	Silas Jagger.	Wellsboro.....	David Libby.
Erie.....	U. S. Weather Bureau.	Morris Run.....	Morris Run Mining Co.	West Chester.....	George W. Hill.
Forest City.....	L. L. Whipple.	Mt. Lebanon.....	Roger H. Howell.	Westford.....	C. C. Collins.
Franklin.....	R. A. Fergus.	Mount Pocono.....	Cecil J. Hoskinson.	Westgrove.....	Conard-Pyle Co.
Freeland.....	Theodore Reichmann.	Muncy Valley.....	H. O. Hacker.	West Newton.....	A. B. Adams.
Galeton.....	Henry W. Lush.	Natrona.....	Bert B. Hildebrand.	Wilkes-Barre.....	Milton Wentz.
George School.....	Dr. Henry Stewart.	Neshaminy Falls.....	Phila. Sub-Water Co.	Williamsport.....	Veronica E. April.
Gettysburg.....	Girard Water Co.	New Castle.....	New Castle Water Co.	York.....	C. L. Bott.
Gordon.....	Sallie M. Johnson.	Newell.....	General Chemical Co.	York Haven.....	J. H. Weinberger.
Gouldsboro.....	Gustav Holtz.	Newport.....	C. J. Allen.		
Graterford.....	C. K. Kulp.	Palmerton.....	Adam R. Boettell.		
Greensburg.....	Westmoreland Water Co.	Parkers Landing.....	New Jersey Zinc Co.		
			Henry Turk.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1933



